Anexa 7. Lista de lucrări - cadre didactice

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" IAȘI
Facultatea Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
Domeniul de licență: Ingineria Mediului
Programul de studii universitare de licență: **ECODESIGN ȘI TEHNOLOGII SUSTENABILE**
Forma de învățământ: IF
Durata studiilor: 4 ani

Anexa 7 cuprinde Listele de lucrări ale cadrelor didactice titulare ale disciplinelor din planul de învățământ al Programului de studii universitare de licență
ECODESIGN ȘI TEHNOLOGII SUSTENABILE

Nr.crt.	Nume, prenume, grad didactic
1.	Prof. dr. ing. Crețescu Igor
2.	Prof. dr. habil. ing. Volf Irina
3.	Prof. dr. habil. chim. Bulgariu Laura
4.	Prof. dr. habil. ing. Zaharia Carmen
5.	Prof. dr. habil. ing. Catrinescu Cezar Florin
6.	Prof. dr. habil. ing. Slușer Brîndușa Mihaela
7.	Prof. dr. ing. Măluțan Teodor
8.	Prof. dr. habil. ing. Lisă Gabriela
9.	Prof. dr. habil. ing. Biali Gabriela
10.	Conf. dr. habil. ing. Șoreanu Gabriela
11.	Conf. dr. ing. Bârjoveanu George
12.	Conf. dr. ing. Cârlescu Irina
13.	Conf. dr. ing. Tudose-Iacob Eugenia
14.	Conf. dr. fiz. Cazacu Marius
15.	Conf. dr. ing. Gavrilescu Marius
16.	Conf. dr. ing. Cojocaru Paula
17.	Conf.dr. mat. Romaniuc Simona Luiza
18.	Conf. dr. ing. Liviu Prună
19.	Conf. dr. Evagrina Dârțu
20.	Conf. dr. Paraschiv Petronela
21.	Șef lucr. dr. ing. Buburuzan Marilena-Adela
22.	Șef lucr. dr. ing. Mustereț Corina Petronela
23.	Șef lucr. dr. biol. Bețianu Camelia
24.	Șef lucr. dr. ing. Balan Cătălin Dumitrel
25.	Șef lucr. dr. ing. Gavrilescu Daniela
26.	Șef lucr. dr. ing. Fighir Daniela

27.	Șef lucr. dr. ing. Cozma Petronela
28.	Șef lucr. dr. ing. Nacu Gabriela
29.	Șef lucr. dr. chim. Apostolescu Gabriela Antoaneta
30.	S.l. dr.chim. Vizitiu Mihaela
31.	Șef lucr. dr. ing. Puițel Adrian Cătălin
32.	Șef lucr. dr. ing. Drăgoi Elena-Niculina
33.	Șef lucr. dr. ing. Suditu Dan-Gabriel
34.	Șef lucr. dr. chim. Herghiligiu Cristina Maria
35.	Șef lucr. dr. ing. Telișcă Marius
36.	Lector dr. Franke Bianca Iuliana
37.	Șef lucr. dr. ing. Ursan Maria

Intocmit,

Șef lucr. dr. ing. Marilena-Adela Buburuzan

Nume Prenume: **CRETESCU IGOR**
Gradul didactic: Prof.dr.ing.
Instituția unde este titular: Universitatea Tehnica „Gheorghe Asachi" din Iasi
Facultatea: Inginerie Chimica si Protectia Mediului „Cristofor Simionescu"

L I S T A
lucrărilor științifice în domeniul de specialitate

1. Teza de doctorat

Instituţie: Universitatea Tehnică "Gheorghe Asachi" din Iaşi
Perioada: noiembrie 1990-decembrie 1999
Conducător ştiinţific: Prof. univ. dr. ing. Matei Macoveanu
Titlul tezei: *Contribuţii la investigarea şi optimizarea proceselor de electrod aplicate în electrosinteza N,N - dimetil - p -fenilen diaminei precum şi în epurarea electrochimică a apelor uzate rezultate, p. 217, 1999*.
Titlul: DOCTOR in Inginerie Chimică, diplomă seria A nr. 0004009, Ordin MEN nr. 3337 data 08.03.2000

2. Cărţi si capitole în cărţi publicate în ultimii 12 ani (utima promovare) (Selectie din 2013-prezent)

1. Cretescu I., Borodaev R., Lutic D., Soreanu G., Duca G., Ratnaweera H. (2023). REDOX Measurements: Inexpensive and Fast Tool for Preliminary Ecotoxicity Assessment and an Early Warning System for Water Pollution. Chapter 8, in: Environmental and Technological Aspects of Redox Processes (Eds. Duca G., Vaseashta A.), IGI Global, Hershey, Pennsylvania, USA: 132-148. ISBN 9798369305126.
2. Cretescu I., Kovacs Z., Lazar L., Burada A., Sbarcea M., Teodorof L., Padure D., Soreanu G. (2021). Danube Delta: Water Management on the Sulina Channel in the Frame of Environmental Sustainability. Chapter 8, in: River Deltas Research - Recent Advances (Ed. Manning A.J.), IntechOpen, London, UK. ISBN 978-1-78985-670-5.
3. Soreanu G., Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2020). A model microalga for addressing air treatment in spacecrafts. Chapter 19, in: From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Eds. Soreanu G. and Dumont E., Elsevier, 21 p. ISBN 9780128190647.
4. **Cretescu I.**, Soreanu G. (2020). Optimizarea proceselor: aplicaţii in inginerie chimică şi protecţia mediului. Editura ECOZONE,Iasi, 215p. ISBN 978-606-8625-22-5.
5. Soreanu G., **Cretescu I.**, Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2020). A model microalga for addressing air treatment in spacecrafts. Chapter 19, in: From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Eds. Soreanu G. and Dumont E., **Elsevier**, 21 p.
6. **Cretescu I**., Lutic D., Manea L.R., Electrochemical Sensors Technology, Electrochemical Sensors for Monitoring of Indoor and Outdoor Air Pollution, 2017, InTech London-Rijeka, Croatia
7. Poroch-Seriţan M., Buculei A., Amariei S., Gutt G., Lazăr L., **Crețescu I**., The content of heavy metals in packaging materials, an environmental issue and a food safety concerns, in Postęp w inżynierii bezpieczeństwa II, 2017, Wydawnictwo UWM Olsztyn, ISBN 978-83-8100-113-7, Olsztyn, Polonia
8. **Cretescu I.**, Kovács, Z. Cimpeanu S.M., Chapter 10: Monitoring of Surface Water Status in the Lower Danube Basin, River Basin Management, Edited by Daniel Bucur, ISBN 978-953-51-2604-1, InTech, 2016, 205-223.
9. Antohi C.M., **Cretescu I.**, Sarbu C.G., Cucos I., Conachi P.A., Catalogul targului de inventii si idei practice INVENT-INVEST-2015, ECOZONE, Iasi, 2015
10. Lutic D., **Creţescu I.**, Chapter 2: TiO2-based mesoporous materials for the efficient photo-degradation of rebel organic compounds in aqueous solutions, in ***Current topics, concepts and research priorities in environmental chemistry (IV)***, Editura Universitatii "Al.I.Cuza' Iasi 2015
11. Lutic D., Simion V.A., **Cretescu I.**, Chapter 7: Improving the water management and protection of natural aquatic resources by using cost-effective advanced treatments of effluents based on Fenton reaction, in Current topics, concepts and research priorities in environmental chemistry (III) , Edited by Carmen

Zaharia, "Alexandru Iona Cuza", Iasi, University Publishing House, **2014**, ISBN: 978-606-714-062-0 (Vol. III), pp. 147-164, ISBN 978-973-703-797-8 (general)

12. Avadanei, V., **Cretescu, I**., Procese membranare de separare, 145 pg., Ed. CERMI, Iasi, **2013**, ISBN 978-973-667-434-1
13. **Cretescu, I.,** Soreanu, G., Optimizarea proceselor in inginerie chimica si protectia mediului, 202 pg, Ed. ECOZONE, Iasi, 2013, ISBN 978-973-7645-85-2
14. Cretescu, I., Soreanu, G., Tehnologii de achizitie, monitorizare si diagnoza a calitatii factorilor de mediu, 227 pg., Ed. ECOZONE, Iasi, 2013, ISBN 978-973-7645-92-0

3. Lucrări indexate ISI/BDI (selectate in verde) publicate în ultimii 12 ani (selecție din 2013-prezent)

1. Doumbi RT, Muguirrima PVM, de Morais A, Bohn F, Martinez-Huitle CA, **Cretescu I,** Correa MA (2025), High Efficiency of the Graphene-Decorated Boron Nitride for Dye Removal from Aqueous Solution: Modeling and Optimization Process Designed for Textile Wastewater Treatment, ***ACS Omega 10***, 43: 51686-51699.
2. Soreanu G., Tanase C., Mardari C., **Cretescu I**, (2025), Assessment of air purification biosystems for environmental applications, ***Process Safety and Environmental Protection***. 195, 106742
3. Ramona Elena Tataru-Farmus, María Harja, Lucia Tonucci, Liliana Lazar, Gabriela Soreanu, **Igor Cretescu** (2025), Green CO2 Capture from Flue Gas Using Potassium Carbonate Solutions Promoted with Amino Acid Salts, ***Clean Technologies*** 7, 4: 1-18.
4. Loredana-Vasilica Postolache, Gabriela Soreanu, **Igor Cretescu**, Nita Tudorachi, Daniela Rusu, Mirela-Fernanda Zaltariov, Ion Anghel, Dana Maria Preda, Gabriela Lisa (2025), Studies on energy recovery from microalgae and plants wastes, ***Biomass and Bioenergy*** 206, art 108586.
5. Loredana-Vasilica Postolache, Gabriela Soreanu, **Igor Cretescu**, Nita Tudorachi, Ion Anghel, Dana Maria Preda, Daniela Rusu, Mirela-Fernanda Zaltariov, Jose Luis Valverde, Gabriela Lisa (2025), Alternative energy sources from wastes and microalgae Chlorella vulgaris used for the capture of atmospheric CO2 in the production of cement, ***Materials Today Sustainability*** 31, art 101175.
6. Gabriela Lisa, **Igor Cretescu**, Catalin Tanase, Constantin Mardari, Nita Tudorachi, Andra-Cristina Enache, Petrisor Samoila, Gabriela Soreanu (2025). Assessment of Hedera helix response in polluted environment through cross-advanced investigation techniques, ***Journal of Thermal Analysis and Calorimetry*** 150: 9181–9194.
7. Soreanu G., Tanase C., Mardari C., **Cretescu I**. (2025). Assessment of air purification biosystems for environmental applications, ***Process Safety and Environmental Protection***, 195, 106742.
8. Lisa G., **Cretescu** I., Enache A.C., Tanase C., Samoila P., Mardari C., Soreanu G. (2025). Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy, ***Renewable and Sustainable Energy Reviews,*** 207, 114890.
9. Postolache L.V., Soreanu G., **Cretescu I**., Lisa G. (2025). Analysis of the thermal behaviour of various wastes co-processed in cement plants, ***Environmental Engineering and Management Journal***, 24(1), 211-221.
10. Nouj N., Majbar Z., Abelouah M.R., Hamou A.B., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., Soreanu G., **Cretescu I**. (2024) Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation. ***Journal of Environmental Chemical Engineering*** 12, 112318.
11. Soreanu G., Tanase C., Mardari C., Gorgan D.L., **Cretescu I.** (2024). Physiological Investigations of the Plants Involved in Air Biofiltration: Study Case. ***Sustainability*** 16, 1529.
12. Muslim Hasan Allawi, Riyadh Sadiq ALMukhtar, Shurooq Talib Al-Humairi, Ali Dawood Salman, Tatjána Juzsakova, Viktor Sebestyén, **Igor Cretescu** (2023). Degradation of diisopropyl methylphosphonate in aqueous solutions by ultrasonic irradiation combined with oxidation process. ***Chemistry Journal of Moldova*** 18 (2), 28-34.
13. Diaconu M., Soreanu G., Balan C.D., Buciscanu I.I., Maier V., **Cretescu I.** (2023). Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation. ***Water*** 15(22), 3962.

14. Mustafa S. Mohammed, Shurooq T. Al-Humairi, Riyadh S. Al-Mukhtar, Saja Mohsen Alardhi, Auwal Aliyu, Ali Dawood Salman, Miklós Jakab, Forat Yasir AlJaberi, Brindusa Sluser, **Igor Cretescu** (2023). Colored Wastewater Treatment by Clathrate Hydrate Technique. ***Water*** 15 (12), 2227.
15. Tatjana Juzsakova, Ali Dawood Salman, Thamer Adnan Abdullah, Rashed Taleb Rasheed, Balázs Zsirka, Rasha R. Al-Shaikhly, Brindusa Sluser, **Igor Cretescu** (2023). Removal of Methylene Blue from Aqueous Solution by Mixture of Reused Silica Gel Desiccant and Natural Sand or Eggshell Waste. ***Materials*** 16 (4), 1618.
16. Vrabie Mihai, Caftanachi Mihaela, **Cretescu Igor**, Harja Maria (2023). The use of water reducing additives for development of new ecological and high-performance materials. ***Ecology & Safety*** 17: 44-57
17. Balaes T., Tanase C., Soreanu G., Mardari C., **Cretescu I.** (2023). Soil fungi resistant to organic pollutants as a potential solution for air biofiltration. ***Ecology & Safety*** 17: 16-23.
18. Forat Yasir AlJaberi, Saja Mohsen Alardhi, Shaymaa A. Ahmed, Ali Dawood Salman, Tatjána Juzsakova, **Igor Cretescu**, Phuoc-Cuong Le, W.Jin Chung, S.Woong Chang, D.Duc Nguyen (2022). Can electrocoagulation technology be integrated with wastewater treatment systems to improve treatment efficiency? ***Environmental Research*** Volume 214, Part 2, November 2022, 113890.
19. A.D. Salman, T. Juzsakova, S. Mohsen, T.A. Abdullah, P.C Le, V. Sebestyen, B. Sluser, **I. Cretescu** (2022). Scandium Recovery Methods from Mining, Metallurgical Extractive Industries, and Industrial Wastes. ***Materials*** 15(7), 2376.
20. A.D. Salman, T. Juzsakova, M.G. Jalhoom, P.C. Le, T.A. Abdullah, **I. Cretescu**, E. Domokos, V.H. Nguyen (2022). Potential Application of Macrocyclic Compounds for Selective Recovery of Rare Earth Scandium Elements from Aqueous Media. ***Journal of Sustainable Metallurgy*** 8 (1), 135-147.
21. M. Harja, C. Teodosiu, D.N. Isopescu, O. Gencel, D. Lutic, G. Ciobanu, **I. Cretescu** (2022). Using fly ash wastes for the development of new building materials with improved compressive strength. *Materials* 15 (2), 644.
22. I Cretescu, D Lutic. (2022). Advanced removal of crystal violet dye from aqueous solutions by photocatalysis using commercial products containing titanium dioxide. ***Comptes Rendus. Chimie*** 25 (S3), 1-12.
23. Lisa G., Anghel I., Preda D.M., Lisa C., **Cretescu I**., Buciscanu I.I., Diaconu M., Soreanu G. (2022). Moving towards Valorization of Biowastes Issued from Biotrickling Filtration of Contaminated Gaseous Streams: A Thermochemical Analysis-Based Perspective. ***Sustainability*** 14, 10737.
24. Nouj N., Hafid N., El Alem N., Buciscanu I.I., Maier S.S., Samoila P., Soreanu G., **Cretescu I.**, Stan C.D. (2022). Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment. ***Materials*** 15, 2803.
25. Diaconu M., Volf I., **Cretescu I.**, Juzsakova T., Soreanu G. (2022). Carbon biocapture in the frame of the climate change and air quality issues: a preliminary microbiota screening. ***Environmental Engineering and Management Journal*** 21(2): 333-341.
26. **Soreanu G., Mardari** C., Tanase C., Volf I., Lazar L., **Cretescu I.** (2022). Carbon dioxide reduction potential of some plants involved in the removal of air pollutant mixtures by biofiltration. ***Ecology & Safety*** 16: 27-33.
27. **Cretescu I**., R. Borodaev, D. Lutic, G. Soreanu, L. Lazar, J. Gitlestad, E. Zubcov (2022). Redox state assessment for the Danube water in the Sulina channel using a mobile water quality monitoring station. ***Annals of "Dunarea de Jos" University of Galati – fascicle II***, year XIV (XLV), No. 2: 122-125
28. G. Soreanu, **I. Cretescu**, D. Lutic, M. Harja, S.S. Maier (2022). Study of microalgae influence on carbon capture from gaseous streams within the biotrickling filtration process. In: *Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022 (02 - 11 July, 2022, Albena, Bulgaria)* 22(4.1): 391-398.
29. G. Soreanu, **I. Cretescu**, E.N. Dragoi, D. Lutic, F. Leon (2022). Towards low-carbon emission biotrickling filtration of volatile organic compounds from air: an artificial neural network approach. In: *Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022* (02 - 11 July, 2022, Albena, Bulgaria) 22(4.1): 429-436.
30. Thamer Adnan Abdullah, Tatjana Juzsakova, Rashed Taleb Rasheed, Ali Dawood Salman, Mohammademad Adelikhah, Le Phuoc Cuong, **Igor Cretescu**. (2021). V2O5 nanoparticles for dyes

removal from water. Chemistry journal of moldova. ***General, Industrial and Ecological Chemistry***. 2021, 16(2), 102-111.

31. Nouj, N., Hafid, N., Alem, N.E., **Cretescu, I.** (2021). Novel liquid chitosan-based biocoagulant for treatment optimization of fish processing wastewater from a Moroccan plant. ***Materials*** 14(23), 7133.
32. Popescu, V., Buciscanu, I.I., Pruneanu, M., Maier, S.S., Danila, A., Maier, V., Pîslaru, M., Rotaru, V., Cristian, I.N., Popescu, A., Istrate, B., Blaga, A.C., Ciolacu, F., **Cretescu, I.**, Chelariu, P., Marin, M. (2021). Sustainable Functionalization of PAN to Improve Tinctorial Capacity. ***Polymers*** 13 (21), 3665.
33. Popescu, V., Blaga, A.C., Pruneanu, M., Cristian, I.N., Pîslaru, M., Popescu, A., Rotaru, V., **Cretescu, I.**, Cașcaval, D. (2021). Green chemistry in the extraction of natural dyes from colored food waste, for dyeing protein textile materials. ***Polymers*** 13(22), 3867.
34. Abdullah, T.A., Juzsakova, T., Rasheed, R.T., Salman, A.D., Sebestyen, V., Domokos, E., Sluser, B., **Cretescu, I.** (2021). Polystyrene-Fe3O4-MWCNTs Nanocomposites for Toluene Removal from Water. ***Materials*** 14 (19), 5503.
35. T. A. Abdullah, R. T. Rasheed, T. Juzsakova, N. Al-Jammal, M. A. Mallah, L. P. Cuong, A. D. Salman, E. Domokos, **I. Cretescu** (2021). Preparation and characterization of MnO2-based nanoparticles at different annealing temperatures and their application in dye removal from water. ***International Journal of Environmental Science and Technology*** 18, 1499-1512.
36. 26Noli, F., Fedorcea, V., Misaelides, P., **Cretescu, I**., Kapnisti, M. (2021). Cesium and barium removal from aqueous solutions in the presence of humic acid and competing cations by a Greek bentonite from Kimolos Island. ***Applied Radiation and Isotopes*** 170, 109600.
37. Soreanu G., Diaconu M., Maier S.S., Volf I., **Cretescu I.** (2021). Enhancing the environmental performance of biotrickling filters treating volatile organic compounds in air. ***IOP Conf. Series: Earth and Environmental Science*** 906 (2021) 012124, 7p.
38. Soreanu G., Diaconu M., Maier S.S., Volf I., **Cretescu I.** (2021). Moving forward sustainable solutions for VOCs biotrickling filtration through co-immobilised microorganisms. ***Romanian Journal of Ecology & Environmental Chemistry*** 3(2): 54-60.
39. Mardari C., Tanase C., Volf I., **Cretescu I.,** Soreanu G. (2021). Testing the bioremediation potential for certain atmospheric pollutants of some plant species from Romania – Preliminary results. ***Ecology & Safety*** 15: 12-20.
40. **Cretescu I.,** Calin S., Kovacs Z., Dragoi E.N., Padure D., Lazar L., Soreanu G. (2021). Actual aspects concerning the water quality monitoring on the Sulina channel from the Danube Delta – Romania. ***Ecology & Safety*** 15: 21-36.
41. Soreanu G., **Cretescu I**., Diaconu M., Cojocaru C., Ignat M., Samoila P., Harabagiu V. (2021). Investigation of a biosystem based on Arthrospira platensis for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. ***Chemosphere*** 264, Part 2, doi.org/10.1016/j.chemosphere.2020.128465.
42. Diaconu M., Volf I., **Cretescu I.,** Soreanu G. (2020). Study of different liquid media influence on Arthrospira platensis microalgae cultivation for environmental applications. ***Environmental Engineering and Management Journal*** 19(2): 353-358.
43. Dinca P., Butoi B., Lungu M., Porosnicu C., Jepu I., Staicu C., Lungu C.P., Niculescu A., Burducea I., Trusca O., Diaconu M., **Cretescu I**., Soreanu G. (2020). Antibacterial efficiency of stainless-steel grids coated with Cu-Ag by thermionic vacuum arc method. ***Coatings*** 10, 322; doi:10.3390/coatings10040322.
44. Harja, M., Ciobanu, G., Juzsakova, T., **Cretescu, I.** New approaches in modeling and simulation of CO_2 absorption reactor by activated potassium carbonate solution. ***Processes***, 2019.
45. Ignat Maria, Samoila Petrisor, Cojocaru Corneliu, Soreanu Gabriela, **Cretescu Igor**, Harabagiu Valeria (2019). Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification. ***Applied Surface Science*** 487: 1189-1197.
46. Corneliu S. Stan, Gabriela Soreanu, Marcel Popa, Petronela Horlescu, Tudor Lupascu, **Igor Cretescu** (2019). A new approach to obtain aerogels for gas safety applications. ***Environmental Engineering and Management Journal*** 18(8): 1721-1726.
47. Dragoi E. N., Kovács Z., Juzsakova T., **Cretescu I.,** Environmental Assesment of Surface Waters Based on Monitoring Data And Neuro-Evolutive Modelling, ***Process Safety and Environmental Protection***, 120, 2018

48. Cotillas S., Sáez C., Cañizares P., **Cretescu I.**, Rodrigo M. A., Removal of 2,4-D herbicide in soils using a combined process based on washing and adsorption electrochemically assisted, ***Separation and Purification Technology***; https://doi.org/10.1016/j.seppur., 2017.
49. Badea Nica D., Dumitru M.G., **Cretescu I**., Monitoring of mercury content in the main environmental components caused by lignite combustion in large thermal Power Plants, ***Materiale Plastice*** 54(4), 781-784, 2017.
50. Cojocaru C., Cocarta D.M., Istrate I.A., **Cretescu I.,** Graphical methodology of global pollution index for the environmental impact assessment using two environmental components, ***Sustainability***, 9(4) (doi:10.3390/su9040593), 13p, 2017.
51. Buckus R., Strukčinskienė B., Raistenskis J., Stukas R., Šidlauskienė A., Čerkauskienė R., Isopescu DN., Stabryla J., **Cretescu I.**, A technical approach to the evaluation of radiofrequency radiation emissions from mobile telephony base stations, ***Int J Environ Res Public Health***, 14(3), (doi: 10.3390/ijerph14030244.), 18p, 2017.
52. Balan A., Obolewski K., Luca M., **Cretescu I.**, Use of macroinvertebrates for assessment of restoration works influence on the habitat in floodplain lakes, ***Environmental Engineering and Management Journal***, 16(4), 969-978, 2017.
53. Lutic D., Coromelci C.G., Juzsakova T.**, Cretescu I.**, New mesoporous titanium oxide-based photoactive materials for the removal of dyes from wastewaters, ***Environmental Engineering and Management Journal***, 16(4), 801-807, 2017.
54. **Igor Cretescu**, Tudor Lupascu, Ingrid Buciscanu, Tudorel Balau-Mindru, Gabriela Soreanu (2017). Low-cost sorbents for the removal of acid dyes from aqueous solutions. ***Process Safety and Environmental Protection*** 108: 57-66.
55. Buckus R., Baltrenas P., Skeivalas J., Grubliauskas R., **Cretescu I.**, Mobile phones electromagnetic field radiation research and analysis of its dispersion by applying MATLAB7 software, ***Environmental Engineering and Management Journal***, 16(5), 1177-1184, 2017.
56. Kotova O.B., Harja M., **Cretescu I.**, Noli F., Pelovski Y., Shushkov D.A., Zeolites in Technologies of Pollution Prevention and Remediation of Aquatic Systems, ***Vestnik IG Komi SC UB RAS***, nr. 5, 49-53, 2017.
57. Shchemelinina T.N., Kotova O.B., Harja M., Anchugova E.M., Pelovski Y., **Cretescu I.**, New Trends in the Mechanisms of Increasing Productivity of Mineral-Based Materials, ***Vestnik IG Komi SC UB RAS***, nr. 6, 40-42, 2017
58. Bucişcanu I., Maier S.S., **Creţescu I.**, Potential Use of Wool Waste as Adsorbent for the Removal of Acid Dyes from Wastewater, ***Annals of the University of Oradea***, *Fascicle of Textiles, Leatherwork* XVII, Nr.2, 23-28, 2016.
59. Cojocaru P., Gusiatin Z. M., **Cretescu I.**, Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (Brassica napus), ***Environmental Science and Pollution Research***, 23(11), 10693-1070, 2016.
60. Isopescu D.N., Sluser B. M., Noli F., Buckus R., **Cretescu I.**, Monitoring of Radioactivity Level in Autoclaved Aerated Concrete Produced in Romania and Risk Assessment, ***Environmental Engineering and Management Journal***,15 (4), 935-943, 2016.
61. Smoczynski L., Ratnaweera H., Kosobucka M., Smoczynski M., Pieczulis-Smoczynska K., **Cretescu I.**, Size of Aggregates Formed during Coagulation and Electrocoagulation of Synthetic Wastewater, ***Journal of Environmental Protection and Ecology***, 17(3), 1160-1170, 2016.
62. Deletze E., Antoniadis A., Kitsiou V., Kostopoulou E, Lutic D., **Cretescu I.**, Poulios,I., Photocatalytic treatment of colored wastewater from medical laboratories: Photodegradation of Nuclear Fast Red, ***Desalination and Water Treatment***, 57(40), 18897-18905, 2016.
63. Lutic D., **Cretescu I.**, Optimization study of Rhodamine 6G removal from aqueous solutions by photocatalytic oxidation, ***Revista de Chimie***, 67(1), 134-138, 2016.
64. Lutic D., Petrovschi D., Ignat M., Cretescu I., Bulai G., Mesoporous cerium-doped titania for the photocatalytic removal of persistent dyes, ***Catalysis Today***, http://dx.doi.org/10.1016/j.cattod.2016.12.018, 2016
65. Cohl M., Lazar L., **Cretescu I.** , Balasanian I., Trihalomethanes issues drinking water after chlorination treatment, ***Revista de Chimie***, 66(9),1282-1287, 2015.
66. A. Raschitor, **G. Soreanu**, C.M. Fernandez-Marchante, J. Lobato, P. Cañizares, I. Cretescu, M.A. Rodrigo (2015). Bioelectro-Claus processes using MFC technology: Influence of co-substrate. ***Bioresource Technology*** 189: 94-98.

67. **Cretescu I**., Soreanu G., Harja M. (2015). A low-cost sorbent for removal of copper ions from wastewaters based on sawdust/fly ash mixture. *International* ***Journal of Environmental Science and Technology***, 12(6): 1799-1810.
68. Poroch-Seritan M., **Cretescu I.**, Cojocaru I., Amariei S., Suciu C., Experimental design for modelling and multi-response optimization of Fe–Ni electroplating process, ***Chemical Engineering Research and Design***, 96,138-149, 2015.
69. Simion, V.-A., **Cretescu, I.,** Lutic, D., Luca, C., Poulios, I., Enhancing the fenton process by UV light applied in textile wastewater treatment, ***Environmental Engineering and Management Journal*** ,14(3), 595-600, 2015.
70. Stefanache A., Dughilă A., Iancu O.G., **Crețescu I**., Stan C.D, Hydrogeological study of natural sulphurous components from the Nicolina area of Iași municipality used in therapeutic procedures, ***Journal for Environmental Protection and Ecology***,vol.16(4), 1543-1552, 2015.
71. Samoila P., Cojocaru C., **Cretescu I.**, Stan C.D., Nica V., Sacarescu L., Harabagiu V., Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution, ***Journal of Nanomaterials***. (http://dx.doi.org/10.1155/2015/713802) Article ID 713802, 13 pages, 2015.
72. Vereștiuc P. C., Tucaliuc O. M., Breabăn I.G., **Crețescu I.**, Nemțoi Ghe., Differential Pulse Anodic Stripping Voltammetry for Mercury Determination. published Online: 2015-12-17 | DOI: https://doi.org/10.1515/achi-2015-0002, ***Acta Chemica Iasi***, 23(1), 13-24, 2015.
73. Nemtoi Gh., **Cretescu I.,** Breaban I., Verestiuc P.C., Tucaliuc O.M., Voltammetric characterization of Hg ion behaviour in acid media on different electrodes, ***Acta Chemica Iasi***, 22(2), 135-144, 2014.
74. Bulgariu L., **Cretescu I.,** Bulgariu D., Macoveanu M., Valorization of low-cost natural materials in depollution processes of wastewater, ***Chemistry Journal of Moldova***, 9(1), 53-58, 2014.
75. Verestiuc P.C., **Cretescu I.**, Tucaliuc O.M., Breaban I.G., Nemtoi Gh., Voltammetric studies on mercury behavior in different aqueous solutions for further development of a warning system designed for environmental monitoring, ***J. Electrochem. Sci. Eng***., 4(4), 2014, 177-186
76. Zaleschi L., Secula M., Teodosiu C., Stan C, **Cretescu I.**, Removal of Rhodamine 6G from Aqueous Effluents by Electrocoagulation in a Batch Reactor: Assessment of Operational Parameters and Process Mechanism, ***Water, Air and Soil Pollution***, 1-14, 225:2101, 2014.
77. Raschitor, A., Fernandez, C.M., **Cretescu, I**., Rodrigo, M.A., Cañizares, P. , Sono-electrocoagulation of wastewater polluted with Rhodamine 6G, ***Separation and Purification Technology***, 110–116, 135, 2014.
78. 68Mareci D., Strugaru S.I., Munteanu C., Grancea V., **Cretescu I.,** Marine environment conservation by using the plasma nitrided austenitic stainless steel for industrial activities in the seawater, ***Journal of Environmental Protection and Ecology***, 1631–1640, 15(4), 2014.
79. Lazar L., Ceica A., Bulgariu L., Pascu L., Balasanian I., **Cretescu I.,** Removal of nitrate ions from water using non-selective purolite A847 Resin, ***Journal of Environmental Protection and Ecology***, 1564–1573, 15(4), 2014.
80. Secula M.S., **Cretescu I.**, Diaconu M., Adsorption of acid dye eriochrome black from aqueous solutions onto activated carbon. Kinetic and equilibrium studies, ***Journal of Environmental Protection and Ecology,*** 1583–1593, 15(4), 2014.
81. Rotaru A., Cojocaru C**.,** **Cretescu I**., Pinteala M., Timpu D., Sacarescu L., Harabagiu V., Performances of clay aerogel polymer composites for oil spill sorption: Experimental design and modeling, ***Separation and Purification Technology***, 260–275, 133, 2014.
82. Secula M.S., Stan C.S., Cojocaru C., Cagnon B., **Cretescu I**., Multi-Objective Optimization of Indigo Carmine Removal by an Electrocoagulation/GAC Coupling Process in a Batch Reactor, ***Separation Science and Technology***, 924-938, 49(6), 2014.
83. Buema G., Noli F., Misaelides P., Sutiman D.M., **Cretescu I**., Harja M., Uranium removal from aqueous solutions by raw and modified thermal power plant ash, ***Journal of Radioanalytical and Nuclear Chemistry***, 381-386, 299, 2014.
84. Tucaliuc O.M., Cretescu I., Nemtoi Gh., Breaban I.G., Soreanu G., Iancu O.G., (2014). Monitoring of mercury from air and urban dust in the industrial area of Iasi municipality. ***Environmental Engineering and Management Journal***, 2051-2061, 13(8).
85. Lutic D., **Cretescu I.,** Detection of soot particles using a resistive transducer based on thermophoresis, ***Environmental Engineering and Management Journal***, 13(9),2253-2259, 2014

86. **Cretescu I.**, Pohontu C., Iticescu C., Cioroi M., Ciocinta R.C., Bucur D., Treatment of landfill leachate using Zea mays and Triticum sp. on antropogenic soils, ***Journal of Food, Agriculture and Environment***, 11(3-4), 1507-1512, 2013
87. **Cretescu I.,** Craciun I., Benchea R.E, Kovács Z., Iavorschi A., Sontea V., Macoveanu M., Development of an expert system for surface water quality monitoring in the context of sustainable management of water resources, ***Environmental Engineering and Management Journal***, 12 (8), 1727-1740, 2013
88. Secula, M.S, **Cretescu, I.,** Cagnon B., Manea, L.R., Stan, C.S., Breaban, I.G., Fractional factorial design study on the performance of GAC-enhanced electrocoagulation process involved in color removal from dye solutions, ***Materials***, 6(7), 2723-2746, 2013
89. Benchea, R.E., **Cretescu, I.,** Kalinowski, S., Koronkiewicz, S., A novel pulsed xenon flashlamp photoreactor and its potential applications in flow analysis with chemiluminescence detection, ***Analytical Methods***, 5, 3650–3656, 2013
90. Zaleschi, L., Sáez, C., Cañizares, P., **Cretescu, I**., Rodrigo M.A, Electrochemical coagulation of treated wastewaters for reuse, ***Desalination and Water Treatment***, 51(16-18), 3381-3388, 2013
91. Harja, M., Buema, G., Sutiman, D.M., **Cretescu, I.,** Removal of some heavy metal ions from aqueous solution using low-cost sorbents obtained from ash, ***Chemical Papers***, 67(5), 497-508, 2013
92. Tutulea, M.D., Wilson, D., del Valle M. , Schreiner, C. M., **Cretescu, I.,** A solid-contact ion selective electrode for copper (II) using a succinimide derivative as ionophore, ***Sensors (Switerland)***, 13(4), 4367-4377, 2013
93. **Cretescu, I.,** Savin, Al., Cimpeanu, C., Bucur, R.D., Harja, M., Optimization of wine decolorization by microfiltration on polyurethane membranes, ***Journal of Food, Agriculture and Environment***, 11(1), 221-226, 2013
94. Buema, G., Cimpeanu, S. M., Sutiman D., Bucur, R.D., Rusu L., **Cretescu, I.,** Ciocinta, R.C., Harja, M., Lead removal from aqueous solution by bottom ash, ***Journal of Food, Agriculture and Environment***, 11(1), 1137-1141, 2013

4. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

- Selecţie cu maximum 20 lucrări în volume de conferinţe

(Selectie din 2013-prezent)

1. Soreanu G., **Cretescu I.**, Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2019b). Multi-function biosystem based on *Arthrospira Platensis* for space applications**.** In: Conference Proceedings Book of the 22nd International Symposium "The Environment and the Industry" (ISI Conference), SIMI 2019, Bucharest, Romania, 26-27 september 2019, ISSN-L: 1843-5831, ECOIND: 77-83.

2. Soreanu G**.**, **Cretescu I**., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2018). Monitoring of CO_2 uptake by microalgae in indoor environment. GLOREP 2018 - Global and Regional in Environmental Protection Conference, 15-17 November, 2018, Timisoara, Romania (conferinta internationala): 255-259.

3. Verestiuc, P.C., Breaban, I.G., Tucaliuc, O.M., Nemtoi, G., **Cretescu, I**.. Assessment of mercury level in leaves and soils in urban landscape of Iasi, in Proceeding of 15th International Multidisciplinary Scientific Geoconference and EXPO Albena; Bulgaria, SGEM 2015, vol. 2(3), pg. 57-64, 2015.

E. Brevete obţinute în întreaga activitate

(Selectie din 2012-prezent)

1. **Cretescu I.,** Arghirescu M., Gorecki G.P., Soreanu G., Lazar L., Harja M. (2024). Izoleta de pat cu sistema de purificare a aerului. Brevet RO134366 B1

2. Ignat M., Samoila P., Bele A., Cojocaru C., **Cretescu I**., Soreanu G., Harabagiu V. (2024). Procedeu de obținere a silicei poroase cu aplicatii in dezumidificarea fluxurilor gazoase. Brevet RO134885 B1.

3. **Cretescu I**., Dragoi E.N., Soreanu G. (2022). Sistem de monitorizare a calitatii apei de suprafata amplasat pe o nava de pasageri. Brevet RO, nr. RO135089B1.

4. **Cretescu I.**, Teodosiu C,, Zaleschi L., Soreanu G., Antonescu I., (2019), Reactor pentru epurarea electrochimica a apelor uzate industriale, Brevet RO, nr. 129934 B1.

5. **Creţescu I.,** Sibiescu D., Secula M.S., Procedeu de obtinere a unui compozit fluorescent pe baza de polietilentereftalat si nanocristale de seleniura de cadmiu (Process for obtaining a fluorescent composite based on polyethyleneterephthalate and cadmium selenide nanocrystals), Brevet RO128622B1, 2016

6. Stan C.S., Sibiescu D., Rosca I., **Cretescu I.**, Chirila L., Butnaru R., Vizitiu M., Compus de coordinatie al Fe(III) si procedeu de obtinere, (Coordination compound of Fe(III) and a process for their preparation), Brevet RO126207-B1, 2016

7. Stan C.S., Sibiescu D., Chirila L, **Cretescu I.**, Rosca I., Procedeu de sinteza a nanocristalelor fluorescente de seleniura de cadmiu (Process for preparing fluorescent cadmium selenide nanocrystals), RO127186-B1, 2016

8. Alecu I., Antonescu I., Cucos I., Golgotiu E., **Cretescu I**., Motogenerator, Brevet Ro. 129578/2014

9. Ursu C., Ioan C.C., Ursu V., **Cretescu I**., Aparat si metoda pentru investigarea nervului facial sensorial (Apparatus and method for investigating the facial sensory nerve), Brevet Ro 127374-B1/2014

10. **Cretescu, I.,** Cojocaru, C., Macoveanu, M., Traductor pentru monitorizarea continua a apelor subterane susceptibile la poluare cu produse petroliere (Transducer for continuous monitoring of groundwater susceptible to pollution by oil products), Brevet RO nr. 123514, 2013

11. Mihai D., Butnaciuc D., **Cretescu I**., Antohi C., Sistem de răcire pentru o formă de turnare a aliajelor feroase, Brevet RO 126202/2012

12. Stan C.S., Sibiescu D., Rosca I., **Cretescu I.**, Tutulea D., Carja G., Compozite fosforescente utilizabile in surse de iluminare cu eficienta energetica ridicata, Brevet Ro. Nr 126406 / 2012

Prof.dr.ing. Igor Cretescu

Septembrie 2026

Lista de lucrări

Prof. univ. dr. habil. ing. Irina VOLF

A. Teza de doctorat.

Institutie: - Universitatea Tehnică Gheorghe Asachi din Iaşi
Perioada: - 1996-2001
Coordonator: - prof. Univ. Dr. Ing. Valentin I. Popa
Titlul tezei: - Dinamica acumulării compuşilor polifenolici în specii *Vitis vinifera* şi unele aspecte ale proprietăţilor lor biologic active
Titlul: Doctor în Inginerie Chimică

Teza de abilitare.

Institutie: - Universitatea Tehnică Gheorghe Asachi din Iaşi
Perioada: - 2016
Titlul tezei: - Integrated processing of biomass to value-added bio products with innovative environmental applications.
Titlul: Doctor habil. în Ingineria Mediului

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

Volf I., Bejenari I.,Popa V.I, 2020, Valuable biobased products through hydrothermal decomposition, in Pulp Producing and Processing. High-tech applications, V.I. Popa Ed., De Gruyter, Berlin, Boston, 141-163, ISBN 978-3-11-065883-5.

Popa V.I., **Volf I.,** 2018, Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Elsevier, ISBN 978-0-444-63774-1.

Volf I., Popa V.I., 2018, Integrated processing of biomass resources for fine chemicals obtaining: Polyphenols, in Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Valentin I. Popa and Irina Volf Editors, Elsevier, ISBN 978-0-444-63774-1.

Santos S.C.R, Ungureanu G., **Volf I.,** Boaventura R., Botelho C.M.S., 2018, Macroalgae Biomass as Sorbent for Metal Ions, in Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Valentin I. Popa and Irina Volf Editors, Elsevier, ISBN 978-0-444-63774-1.

Ignat, I., **Volf, I**., Popa, V.I., 2013, Analytical Methods of Phenolic Compounds, in Handbook of Natural Products, K.G. Ramawat, J.M. Merillon (eds.), doi 10.1007/978-3-642-22144-6_56, Springer-Verlag Berlin Heidelberg, ISBN 978-3-642-22143-9.

Popa, V. I., Stingu, A., **Volf,I.,** 2011, Lignins and Polyphenols in Bioremediation, In Bioremediation Technology, Recent Advances, M.H. Fulekar ed., Springer, 100-135, ISBN 978-90-481-3677-3.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

Ungureanu E., Fortună M., Ungureanu O., Tofănică B., Rotaru R., **Volf I.,** 2026, Aplicaţii în agricultură şi industrie ale unor polimeri biodegradabili, Ecozone, Iaşi, ISBN .....

Gavrilescu M., Diaconu M., Bulgariu L., **Volf I.,** Catrinescu C., .. Vasilica S.I., 2019, Exploring and Exploiting Microbial and Plant Abilities and Interactions in Environmental Bioremediation (Explorarea şi exploatarea abilităţilor microorganismelor, plantelor şi a interacţiunilor dintre acestea pentru remedierea mediului), Performantica, Iaşi, ISBN978-606-685-690-4 (in romanian).

Volf I., Balan C., 2016, Laboratory work and Applications for Biotechnology and Bioremediation, Ed. Performantica, Iasi, ISBN 978-606-685-479-5 (in romanian).

Popa V.I., **Volf, I.,** 2013, Experimental Research Strategy (180p), Politehnium, Iaşi, ISBN 978-973-621-403-5 (in romanian).

Volf, I., 2011**,** Products and Energy from Renewable Sources, Ecozone, Iaşi, ISBN 978-973-7645-84-5 (in romanian).

Volf, I., 2007**,** Elements of biotechnology and bioremediation, PIM, Iaşi, ISBN 973-716-768-6. (in romanian).

Volf,I., Teodosiu,C., 2007, Environmental Project Management, Politehnium, Iaşi, ISBN 978-973-621-180-5. (in romanian).

Volf, I., 2005, New yeast strains for biotechnological processes, Junimea, Iaşi, ISBN 973-37-1034-2 (in romanian).

Volf, I., ed., 2005**,** Ecotehnologii, Ecoproduse, Ecoservicii, Ecozone, Iaşi, ISBN 973-7645-13-8.

Volf, I., 2004, Biotechnology in environmental protection. Control techniques, practical and numerical applications (167p.), Cermi, Iaşi, ISBN 973-667-088-0 (in romanian).

Tudose (Volf), I., 2003**,** Biomass as a source of biologically active compounds, In Advances in Biotechnology, Popa, V.I., ed., Sedcom Libris, Iaşi, ISBN 973-8028-79-5 (in romanian).

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Volf I., 2017, Research planning and project management, e-learning book available on Learning @TUIasi on-line courses platform.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articole publicate în reviste cotate ISI

97 Zotica T.A., Ungureanu G., Chirilă S.D., Balan C.D., Popescu I.D., Gostin I.N.,* **Volf I.*,** 2026, Phytoremediation and Compost-Assisted Phytoremediation of a Heavy-Metal-Contaminated Soil: A Sustainable Approach Using Waste-Derived Amendments, Conservation **2026**, 6, 54 https://doi.org/10.3390/conservation6020054.

96. Armanu G.E.,Ribeirinho-Soares S., Eberlein C., Heipieper H.J., **Volf I.,** Nunes O.C., Soares O.S., 2026, Biomass-derived hydrochars as eco-friendly adsorbents for wastewater treatment applications, Environmental Progress & Sustainable Energy, 70396, https://doi.org/10.1002/ep.70396 (Q3, 2.3)

95. Armanu E.G., Secula M.S.*, Eberlein C., Schmidt M., Heipieper H.J., **Volf I.*,** dec 2025, Hydrochars from agricultural and forestry waste designed to achieve multipurpose matrices: Modeling and optimization of process parameters, Results in Engineering, 28, 108252, https://doi.org/10.1016/j.rineng.2025.108252 (Q1, 7.9)

94. Apreutesei O.T., Tebrencu C.E., Gherghel D., Oprică L.A, **Volf I.***, Vochița G., 2025, *Prunus spinosa* L. Branches as a New Source of Condensed tannins: Phytochemical Profile and Antioxidant, Cytotoxic and Genotoxic In Vitro Evaluation, Antioxidants, 14, 1408, https://doi.org/10.3390/antiox14121408 (Q1/6.6)

93. Ungureanu G., Pavel V.L., **Volf I*.,** 2025, Oxyanion Recovery from Wastewater with Special Reference to Selenium Uptake by Marine Macroalgae, Applied Sciences, 15, 10946. (Q2 / 2.5) https://doi.org/10.3390/app152010946

92. Ungureanu E., Tofanica B.M., Ulea E., Ungureanu O.C., Fortună M.E., Rotaru R., **Volf I.,** Popa V.I., 2025, Valorization of Agro-Industrial Lignin as a Functional Polymer for Sustainable Wastewater Treatment, Polymers, 17, 2263. https://doi.org/10.3390/polym17162263, (Q1 4.7)

91. Chelaru B., Onuțu C., Ungureanu G., **Volf I.,** Șerbanoiu A.A., 2025, BIM and cloud-based tools integration for BREEAM in energy-efficient building design: A case study, Results in Engineering, 26, 105493, https://doi.org/10.1016/j.rineng.2025.105493 (Q1, 7.9)

90. Armanu G.E., Bertoldi S., Schmidt M., Heipieper H.J., **Volf* I.,** Eberlein C., 2025, Hydrochar from Agricultural Waste as a Biobased Support Matrix Enhances the Bacterial Degradation of Diethyl Phthalate, Molecules, 30, 1167, https://doi.org/10.3390/molecules30051167. (Q2, 4.2).

89. Armanu G.E., Bertoldi S., Chrzanowski L., **Volf* I.,** Heipieper H.J., Eberlein C., 2025, Benefits of Immobilized Bacteria in Bioremediation of Sites Contaminated with Toxic Organic Compounds, Microorganism, 13, 155, https://doi.org/10.3390/microorganisms13010155 (Q2, 4.1).

88. Tincu C.E., Hamcerencu M., Secula M.S., Stan C.S., Albu C., Popa M., **Volf I.*,** 2024, A Natural Carbon Encapsulated in Gellan-Based Hydrogel Particles Designed for Environmental Challenges, Gels 10, 713, https://doi.org/10.3390/gels10110713 (Q1, 5).

87. Damaschin R.P., Lazar M.M., Ghiorghita C.A., Aprotosoaie A.C., **Volf I.***, Dinu M.V.*, 2024, Stabilization of *Picea Abies* spruce bark extracts within ice-templated porous dextran hydrogels, Polymers, 16, 2834. https://doi.org/10.3390/polym16192834. (Q1, 4.7)

86. Dinu R., Bejenari I., **Volf I.,** Mija A., 2024, Exploring strategies for valorising wood processing waste: advancing sustainable, fully lignocellulosic bio composites, International Journal of Biological Macromolecules, 280, 135948. https://doi.org/10.1016/j.ijbiomac.2024.135948 (Q1 7.7)

85. Lazar M.M., Damaschin R.P., **Volf I.*,** Dinu M.V.*, 2024, Deep Cleaning of Crystal Violet and Methylene Blue Dyes from Aqueous Solution by Dextran-based Cryogel Adsorbents, Gels, 10, 546. https://doi.org/10.3390/gels10090546 (Q1, 5.0)

84. Armanu G.E., Secula M.S., Tofanica B.M., **Volf I*.,** 2024, The Impact of Biomass Composition Variability on the Char Features and Yields Resulted through Thermochemical Processes, Polymers, 16, 2334. https://doi.org/10.3390/polym16162334 (Q1, 4.7)

83. Dinu R., Bejenari I., **Volf I.,** Mija A., 2024, Towards Sustainable and Recyclable Plastic Materials: Vanilin-Based Epoxy Bio-composites with Spruce Bark Powder and Hydrochar, Pioneering Green Chemistry Solutions for Shape Memory Applications, Industrial Crops & Products 221, 119363, https://doi.org/10.1016/j.indcrop.2024.119363. (Q1, 5.6)

82. Mikhailidi A., Ungureanu E., Tofanica B.M, Ungureanu O., Fortuna M.E., Belosinschi D., **Volf I.,** 2024, Agriculture 4.0: Polymer Hydrogels as Delivery Agents of Active Ingredients, Gels, 10, 368. https://doi.org/10.3390/gels10060368. (Q1 5.0)

81 Hristea G., Iordoc M., Lungulescu E.-M., Bejenari I., **Volf* I.,** 2024, A sustainable bio-based char as emerging electrode material for energy storage applications, Scientific Reports*, 14(1)*, 1095. https://doi.org/10.1038/s41598-024-51350-x (Q1, 4.6)

80 Mikhailidi A., Ungureanu E., Belosinschi D., Tofanica B.M., **Volf* I.,** 2023, Cellulose-Based Metallogels - Part 3: Multifunctional Materials, Gels, 9, 878. https://doi.org/10.3390/gels9110878 (Q1, 4.432).

79 Mikhailidi A., **Volf I*.,** Belosinschi D., Tofanica B.M., Ungureanu E., 2023, Cellulose-Based Metallogels-Part 2: Physico-Chemical Properties and Biological Stability, Gels, 9, 633, https://doi.org/10.3390/ gels9080633 (Q1, 4.432).

78 Ciuperca (Apreutesei) O.T., Ionescu E., Secula M.S., **Volf I*.,** 2023, Microwave-Assisted Extraction of Condensed Tannins from Branches of Prunus spinosa L.: Response Surface Modeling and Optimization, Processes 2023, 11, 2024, https://doi.org/10.3390/pr11072024 (Q2, 3.5).

77 Mikhailidi A., **Volf I***., Belosinschi D., Tofanica B.M.,* Ungureanu E., 2023, Cellulose-Based Metallogels—Part 1: Raw Materials and Preparation, Gels, 9, 390, https://doi.org/10.3390/gels9050390

76 Stan L. , **Volf I.*,** Stan C.S.*, Albu C., Coroaba A., Ursu L.E., Popa M., 2023, Intense Blue Photo Emissive Carbon Dots Prepared through Pyrolytic Processing of Lignocellulosic Wastes, Nanomaterials, 13, 131, https://doi.org/10.3390/nano13010131 (Q1, 5.719)

75 Stan L., Malutan T., **Volf I**., Popa M., Stan C.S., Tincu C.E., 2022, Photoluminescent polymer aerogels with R, G, B emission, International Jornal of Molecular Science, 23, 16004, https://doi.org/10.3390/ijms232416004 (Q1, 6.208)

74 Ungureanu G., Bejenari I., Hristea G., **Volf I.*,** 2022, Carbonaceous materials from forest waste conversion and their corresponding hazardous pollutants remediation performance, Forests, 13, 2080. https://doi.org/10.3390/f13122080 (Q1 3.282)

73 Filote C., Lanez E., Popa V.I., Lanez T., **Volf I.*,** 2022, Characterization and Bioactivity of Polysaccharides Separated through a (Sequential) Biorefinery Process from *Fucus spiralis* Brown Macroalgae, Polymers, 14, 4106. https://doi.org/10.3390/polym14194106 . (Q1 4.967)

72 Tofanica B.M., Belosinschi D., **Volf I.***, 2022, Gels, Aerogels and Hydrogels: A Challenge for the Cellulose-based Product Industries, Gels, 8, 497. https://doi.org/10.3390/gels8080497 . (Q1 4.432)

71 Ungureanu G., Pătrăuţanu O.A., **Volf I.*,** 2022, A bio-based carbon rich material for efficient remediation of environmental hazardous, Comptes Rendus Chimie, 25, 3, 1-11, 10.5802/crchim.173 (Q3 2.46)

70 Bejenari I., Hristea G., Carausu C., Mija A, **Volf I.*,** 2022, A Sustainable Approach on Spruce Bark Waste Valorization through Hydrothermal Conversion, Processes, 10, 111, https://doi.org/10.3390/pr10010111 (Q2 3.352)

69 Diaconu M., **Volf I.,** Cretescu I., Juzsakova T., Soreanu G., 2022, Carbon bio-capture in the frame of the climate change and air quality issues: a preliminary microbiota screening, Environmental Engineering and Management Journal, 21, 2, 333-341. (Q4 0.916)

68 Dinu R., Bejenari I., **Volf I.**, Mija A., 2021, Vegetable Oil-Based Resins Reinforced with Spruce Bark Powder and with Its Hydrochar Lignocellulosic Biomass, Applied Science, 11, 10649. https://doi.org/10.3390/app112210649. (Q2 2.838)

67 Soreanu G., Diaconu M., Maier S., **Volf I.,** Cretescu I., 2021, Enhancing the environmental performance of biotrickling filters treating volatile organic compounds in air, IOP Conf. Series: Earth and Environmental Science 906, 012124, doi:10.1088/1755-1315/906/1/012124 (Q4).

66 Bejenari I., Dinu R., Montes S., **Volf I.,** Mija A., 2021, Hydrothermal carbon as reactive fillers to produce sustainable bio-composites with aromatic biobased epoxy resins, Polymers, 13(2), 240; doi:10.3390/polym13020240. (Q1 4.967)

65 Filote, C., Santos, S.C.R., Popa, V.I., **Volf I.*,** 2021, Biorefinery of marine macroalgae into high-tech bioproducts: a review. Environmental Chemistry Letters,19, 969-1000, https://doi.org/10.1007/s10311-020-01124-4 (Q1 IF 13.615).

64 Barjoveanu, G., Pătrăuțanu, O.A., Teodosiu, C., **Volf, I.*,** 2020, Life cycle assessment of polyphenols extraction processes from waste biomass, Scientific Reports, 10:13632, 1-12. (Q1 4.996).

63 Ciuperca O.T., Tebrencu C.E., Lazar L., **Volf I.*,** 2020, Kinetic Study on Solid-Liquid Extraction of Condensed Tannins from Rosa Canina Branches and Stems, Rev. Chim., 71 (7), 2020, 153-161

62 Zotica T.A., Chirilă S.D., Balan C., **Volf I.*,** 2020, Physical and chemical characterization and floristic peculiarities of a soil affected by anthropic activities, Environmental Engineering and Management Journal, 19, 2, 317-325 (Q4.

61 Diaconu M., **Volf I.,** Crețescu I., Șoreanu G., 2020, Study of different liquid media influence on Arthrospira platensis microalgae cultivation for environmental applications, Environmental Engineering and Management Journal, 19, 2, 353-358.

60 Pătrăuţanu, O., Ciuperca O.T., Popa, V.I., **Volf I.*,** 2020, Contributions on Spruce Bark Polyphenols Identification Using Instrumental (UV-VIS Spectrometry), Qualitative (Thin Layer Chromatography) and Quantitative (HPTLC Densitometry) Methods, Rev. CHIM., 71, 1, 39-45.

59 Tanase C., Berţa L., Mare A., Man A., Talmaciu A., Roşca I., Mircia E., **Volf I.,** Popa V.I., 2020, Biosynthesis of silver nanoparticles using aqueous bark extract of *Picea abies* L. and their antibacterial activity, European Journal of Wood and Wood Products, 78, 281-291. https://doi.org/10.1007/s00107-020-01502-3 (Q2 2.528)

58 Ciuperca O.T., Tebrencu C.E., Ionescu E.,Iacob E., **Volf I.***, 2019, Studies on Polyphenols Isolated from Branches of *Prunus spinosa L.* Species, Rev.CHIM., 70, 8, 2897-2902.

57 Pătrăuţanu O., Lazăr L., Popa V.I, **Volf I.*,** 2019, Influence of particle size and size distribution on kinetic mechanism of spruce bark polyphenols extraction, Cellulose Chemistry and Technology, 53 (1-2), 71-78.

56 Filote, C., **Volf, I.,** Santos, S.C.R., Botelho, C.M.S., 2019, Bioadsorptive removal of Pb(II) from aqueous solution by the biorefinery waste of *Fucus spiralis*, Science of the Total Environment, 648, 1201-1209 (Q1 4.610).

55 Ungureanu, G., Balan, C.D., **Volf, I.*,** 2018, Application of *Sphagnum moss* peat in ecological remediation of oxyanions contaminated aqueous solutions, Environmental Engineering and Management Journal, 17, 4, 915-925 (IF 1.334).

54 Tanase C., Talmaciu A., Bara C.I, Boz I., **Volf I.**, Popa V.I., 2018, New Aspects of Biomass Waste Valorisation: Spruce Bark Crude Extracts as Plant Growth Regulators, BioResources 13 (2), 3994-4007 (IF 1.334).

53 Ungureanu, G., Santos, S.C.R., **Volf, I.**, Boaventura, R.A.R., Botelho, C.M.S., 2017, Biosorption of antimony oxyanions by brown seaweeds: Batch and column studies, Journal of Environmental Chemical Engineering, 5 (4), 3463-3471 (IF 4.3).

52 Axinte, O., **Volf, I.,** Bulgariu, L., 2017, Adaptive management for sustainable development of Amara Lake (S-E Romania), Environmental Engineering and Management Journal, 16, 3, 625-633 (IF 1.096).

51 Filote, C., Ungureanu, G., Boaventura, R., Santos, S., **Volf, I.,** Botelho C., 2017, Green macroalgae from the Romanian coast of Black Sea: Physico-chemical characterization and future perspectives on their use as metal anions biosorbents, Process Safety and Environmental Protection, 1 0 8, 34–43, (IF 2.905).

50 Ghitescu E. R., Curteanu,S., Mihailescu, C., **Volf,I.**, Leon,F., Gilca, A., Popa V.I., 2017, Support vector machine combined with genetic algorithm for optimization of microwave-assisted extraction of polyphenols from spruce wood bark, Cell. Chem. Technol., 51 (3-4), 203-213, (IF 0.833).

49 Ungureanu, G., Filote, C., Santos, S., Boaventura, R., **Volf, I.,** Botelho, C., 2016, Antimony oxyanion uptake by green marine macroalgae, Journal of Environmental Chemical Engineering, 4, 3, 3441–3450 (IF 4.3).

48 Lazar, L., Talmaciu, A., **Volf, I.*,** Popa, V.I., 2016, Kinetic modeling of the ultrasound-assisted extraction of polyphenols from Picea abies bark, Ultrasonics Sonochemistry 32, 191–197 (IF 4.556).

47 Bujor, O.C., Le Bourvellec, C.,**Volf, I.,** Popa, V.I., Dufour, C., 2016, Seasonal variations of the phenolic constituents in bilberry (Vaccinium myrtillus L.) leaves, stems and fruits, and their antioxidant activity, Food Chemistry 213, 58–68 (IF 4.052).

46 Talmaciu, A., Ravber, M., **Volf, I.**, Knez, J.,Popa, V.I., 2016, Isolation of bioactive compounds from spruce bark waste using sub and supercritical fluids, J. of Supercritical Fluids, 117, 243–251 (IF 2.579).

45 Nedelcu, D., Lohan, N., **Volf, I.,** Comaneci, R., 2016, Thermal behaviour and stability of the Arboform® LV3 nature liquid wood, Composites Part B: Engineering, 103, 84-89, (IF 3.850).

44 Talmaciu A., **Volf I.**, Popa, VI, 2015, A Comparative Analysis of the 'Green' Techniques Applied for Polyphenols Extraction from Bioresources, Chemistry&Biodiversity, 12, 11, 1635–1651. (1,515).

43 Talmaciu A., **Volf I**.*, Popa, VI, 2015, Supercritical fluids and ultrasound assisted extractions applied to spruce bark conversion, Environmental Engineering and Management Journal, 14 (3), 615-623. (1,065).

42 Bujor, O.C, Talmaciu, A., **Volf, I.,** Popa V.I., 2015, Biorefining to recover aromatic compounds with biological properties, Tappi Journal, 14, 3, 205-211.

41 Ghitescu R., **Volf, I.,** Carausu, C., Bühlmann, A.M., Gilca, I.A., Popa, V.I., 2015, Optimization of ultrasound-assisted extraction of polyphenols from spruce wood bark, Ultrasonics Sonochemistry, 22, 535–541.

40 C. D. András, R. Salamon, I. Barabás, **Volf I.,** Szép A., 2015, Influence of extraction methods on caraway (*Carum carvi* l.) essential oil yield and carvone/limonene ratio, Environmental Engineering and Management Journal, 14, 2, 341-347.

39 Volf, I., Rakoto, N., Bulgariu, L., 2015, Valorisation of *Pistia stratiotes* biomass as biosorbent for lead(II) ions removal from aqueous media, Separation Science and Technology, 50: 1577–1586.

38 Tanase, C., **Volf I.***, Popa, V.I., 2014, Enhancing copper and lead bioaccumulation in rapeseed by adding hemp shives as soil natural amendments, Journal of Environmental Engineering and Landscape Management, 22 (04), 245–253.

37 Tanase, C., Boz, I., Stingu, A., **Volf, I.,** Popa, V.I., 2014, Physiological and biochemical responses induced by spruce bark aqueous extract and deuterium depleted water with synergistic action in sunflower (*Helianthus annuus L.*) plants, Industrial Crops and Products, 60, 160–167.

36 **Volf, I**., Ignat, I., Neamtu, M., Popa V.I., 2014, Thermal stability, antioxidant activity, and photo-oxidation of natural polyphenols, Chemical Papers, 68, (1) 121–129.

35 Trinca L.C, Căpraru A.M., Arotaritei D., **Volf I.,** Chiruta C., 2014, Monitoring methods and predictive models for water status in Jonathan apples, Food Chemistry, Vol. 144, 80-86.

34 Ene S., Teodosiu C., Robu B., **Volf, I.,** 2013, Water footprint assessment in the winemaking industry: a case study for a Romanian medium size production plant, Journal of Cleaner Production, 43, 122-135.

33 Ignat I., Radu D., **Volf, I**., Pag A., Popa, V.I., 2013, Antioxidant and antibacterial activities of some natural polyphenols, Cellulose Chem. Technol., 47 (5-6), 387-399.

32 Tanase. C., **Volf I.**, Popa, V.I., 2013, Assessment of the sinergic regulator action of spruce bark extract and deuterium depleted water on maize (*Zea Mays L.*) crops, Environmental Engineering and Management Journal, vol.12, 6, 1535-1542.

31 Tanase, C., **Volf, I.,** Vintu, S., Gradinaru R., Popa, V.I., 2013, Potential applications of wastes from energy and forestry industries in plant tissue culture, Cellulose Chemistry and Technology, 47 (7-8), 553-563.

30 Balan, C., **Volf, I**.*, Bilba, D., 2013, Chromium (VI) removal from aqueous solutions by Purolite base anion-exchange resins with gel structure, Chemical Industry & Chemical Engineering Quarterly, 19 (4) 615-628.

29 Stingu, A., **Volf, I.*,** Popa, V.I., Gostin, I., 2012. New approaches concerning the utilization of natural amendments in cadmium phytoremediation, Industrial Crops and Products, 35, (1), 53–60.

28 Mihailescu Amalinei, R. L., Miron, A., **Volf, I.,** Paduraru, C., Tofan, L., 2012. Investigations on the feasibility of Romanian pine bark wastes conversion into a value-added sorbent for Cu(II) and Zn(II) ions, BioResources,7 (1), 148-160.

27 Hainal, A.R., Capraru, A.M., **Volf, I.,** Popa, V.I., 2012, Lignin as a carbon source for the cultivation of some *Rhodotorula species*, Cellulose Chemistry and Technology, 46 (1-2), 87-96.

26 Volf, I., Stingu, A., Popa, V.I., 2012**,** New natural chelating agents with modulator effects on copper phytoextraction, Environmental Engineering and Management Journal, 11, 2, 487-491.

25 Balan, C., **Volf, I**.*, Bulai, P., Bilba, D., Macoveanu, M., 2012, Removal of Cr (VI) from aqueous environment using peat moss: equilibrium study, Environmental Engineering and Management Journal, Vol.11, No. 1, 21-28.

24 Hainal, A.R., Diaconescu,R., **Volf, I**., Popa, V.I., 2012, Studies concerning some possibilities of obtaining carotenoid pigments by cultivation of *Rhodotorula spp* in the presence of *Asclepias syriaca* extracts, Romanian Biotechnological Letters, Vol. 17, No. 2, 7086-7092.

23 Tofan, L., Paduraru, C., **Volf, I.*,** Toma, O., 2011, **W**aste of rapeseed from biodiesel production as a potential biosorbent for heavy metal ions, BioResources 6, (4), 3727-3741.

22 Tofan, L., Paduraru, C, **Volf, I.**, Wenkert, R., 2011, Comparative study concerning the kinetic and thermodynamic description of some heavy metal ions sorption on fly ash, Journal of Optoelectronics and Advanced Materials, Vol. 13, No. 7, 896 – 900.

21 Ignat, I., **Volf, I.**, Popa, V.I., 2011, A critical review of methods for characterization of polyphenolic compounds in fruits and vegetables, Food Chemistry, 126, 4, 1821–1835.

20 Ignat, I., Stingu, A., **Volf, I.,** Popa, V.I., 2011, Characterization of grape seed aqueous extract and possible applications in biological systems, Cellulose Chemistry and Technology, 45, (3-4), 205-209.

19 Hainal, A.R., Ignat, I., **Volf, I.,** Popa, V.I., 2011, Transformation of polyphenols from biomass by some yeast species, Cellulose Chemistry and Technology, 45, (3-4), 211-219.

18 Ignat, I., Neagu, V., Bunia, I., Paduraru, C., **Volf, I.,** Popa, V.I., 2011, A comparative study on adsorption of gallic acid onto polymeric adsorbents with amine functional groups, Cellulose Chem. Technol., 45, (3-4), 251-256.

17 Tofan, L., Paduraru, C., **Volf, I.,** 2011, Maize bran as a low-cost resource for Cu(II) ions removal, Cellulose Chem. Technol., 45 (3-4), 275-280.

16 Stingu A., **Volf I.*,** Popa V.I., 2011, Spruce bark extract as modulator in rape plant copper bioaccumulation, Cellulose Chem. Technol., **45** (3-4), 281-286.

15 Stingu, A., Stanescu, I., **Volf, I., P**opa,V.I., 2011, Hyper accumulation of cadmium in maize plant (*Zea Mays*), Cellulose Chem. Technol., **45** (3-4), 287-290.

14 Carja, G., Dranca, S., Husanu, E., **Volf, I.,** 2009, Iron containing anionic clays supported with iron and cerium oxides as catalysts for Nox reduction, Environmental Engineering and Management Journal, vol. 8, (3), 553-557.

13 Stangu, A.**, Volf, I.**, Popa, V.I., 2009, Physiological changes in seedling germination and plant growth under chemical stress conditions, Environmental Engineering and Management Journal, 8, (6), 1309-1313.

12 Ciubota-Rosie, C., Diaconescu, R., **Volf I.,** Macoveanu, M., 2009, Modeling the extraction process of oil from seeds of *White Mustard (Sinapis alba*), Environmental Engineering and Management Journal, 8, (6), 1429-1432.

11 Suteu, D., **Volf, I.***, Lupu, L., Teodosiu, C., Ioan, C., 2009, A social inquiry assessment of a new water and wastewater disinfection device, Environmental Engineering and Management Journal, 8, (6), 1471-1478.

10 Stingu, I., **Volf, I.**, Popa, V.I., 2009, Study of cooper and cadmium accumulation by bean, Environmental Engineering and Management Journal, 8, (5), 1247-1252.

9 Leonte, C., Vatavu, R., Robu, T., **Volf, I.,** 2009**,** The carbohydrates synthesis in *Calendula Officinalis* L. leaves influenced by some mutagen substances, Environmental Engineering and Management Journal, 8, (5), 1287-1291.

8 Popa,V.I., Dumitru, M., **Volf, I.,** N. Anghel, 2008, Lignin and polyphenols as allelochemicals. Industrial Crops and Products, vol.27, issue 2, 144 – 149.

7 Volf, I., Toma, I., Toma, C., Popa, V.I., Popescu, M., 2006, Aromatic Compounds from Wood as Regulating Agents for Grafting Processes, Cellulose Chem. Technol., 40 (1-2), 13-18.

6 Volf, I., Mamaliga, I., Popa, V.I.,2006, Active Principia with Antioxidant Character from Vegetal By-products. II Equilibrium Study of the Polyphenolic Compounds Extraction from Wood of Vitis sp., Cellulose Chem. Technol., 40 (3-4), 211-215.

5 Popa, V.I., **Volf, I**., 2006, Green Chemistry and Sustainable Development, Environmental Engineering and Management Journal, vol.5, (4), 545-558.

4 Suteu,D., **Volf, I.**, Macoveanu, M., 2006, Ligno-cellulosic Materials for Wastewater Treatment, Environmental Engineering and Management Journal, vol. 5, nr.2, 119-134.

3 Dănăilă, M., Popa, V.I., **Volf, I.,** 2006, The effect of adding natural polyphenolic compounds on yeast fermentation and wine quality. Romanian Biotechnological Letters, vol. 11, no.4, 2833-2840.

2 **Volf, I**., Robu, B., Ciobanu, O., 2004, The monitoring of aluminum concentration in water and fresh food in order to estimate the risks on human health, Environmental Engineering and Management Journal, vol.3, no.3, 313-322.

1 **Volf**, I., Popa, V.I., 2004, Obţinerea unor principii active cu caracter antioxidant din subproduse vegetale. I. Studiul procesului de extractie a compuşilor polifenolici din lemn de Vitis sp. Revista de Chimie, vol.55 (9), 707-710.

Articole indexate în baze de date internaţionale

Ungureanu E., Tofănică B.M., Fortună M.E, Ungureanu O., **Volf I.,** 2025, Bioremediation in circular economy: case study of Cu(II) removal via lignin-based biomass, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 71 (75), 1, 10.5281/zenodo.15062946.

Ungureanu E., Tofănică B.M., Ungureanu O.C., Fortună M.E., **Volf I.,** Popa V.I., 2024, Lignin-based biomass fractions for Cr(VI) adsorption from aqueous media – thermodynamic, spectral and biological

analysis, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 70 (74), 3, 10.5281/zenodo.13837919.

Ungureanu E., Tofănică B.M., Ungureanu O.C., Fortună M.E., **Volf I.,** Popa V.I., 2024 Circular economy solutions: exploring agricultural residues, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 70 (74), 4, 33-48, 10.5281/zenodo.14582064.

Armanu G.E., Secula M.S., Cimpoesu N., Heipieper H.J., **Volf I.,** 2024, A biobased nano/micro-structured material for microorganisms' immobilization, Conference: XXIVth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2024, vol. 24, 10.5593/sgem2024/6.1/s24.01 (ISI proceedings)

Ungureanu E., Tofănică B.M.,Ungureanu O.C., Fortună M.E., **Volf I.,** Popa V.I., 2024, Llignin-based biomass fractions for Cr(VI) adsorption from aqueous media – thermodynamic, spectral and biological analysis, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 70 (74), 3, 57-64, 10.5281/zenodo.13837919

Toma A.C., **Volf I.,** 2023, A short review on urban air pollution and innovative bio-remedial approaches, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 69 (73), 3, 87-101, doi.105281/zenodo.10072450.

Soreanu G., Mardari C., Tanase C., **Volf I.,** Lazar L., Cretescu I., 2022, Carbon dioxide reduction potential of some plants involved in the removal of air pollutant mixtures by biofiltration , Ecology & Safety ISSN 1314-7234, 16, 27-33.

Armanu G.E., **Volf I.,** 2022, Natural carriers for bacterial immobilization used in bioremediation, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 68 (72), 3, 109-122.

Soreanu G., Mardari C., Tanase C., **Volf I.,** Maier V., Cretescu I., 2022, Preliminary assessment of air purification by aerial plant based biofilter, Ecology & Safety ISSN 1314-7234, 16, 34-41.

Zaharia C., Simion M., **Volf I.,** 2022, Ex-situ remediation of a petroleum hydrocarbons contaminated soil, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 68 (73), 2, 91-106.

Soreanu G., Diaconu M., Maier S.S., **Volf I.,** Cretescu I., 2021, Moving forward sustainable solutions for VOCs biotrickling filtration through co-immobilised microorganisms, Romanian Journal of Ecology & Environmental Chemistry, 3(2), https://doi.org/10.21698/rjeec.2021.207.

Mardari C., Tanase C., **Volf I**., Cretescu I., Soreanu G., 2021, Testing the bioremediation potential for certain atmospheric pollutants of some plant species from Romania– preliminary results, Ecology & Safety, (ISSN 1314-7234), 15, 12-20.

Diaconu M., **Volf I.,** Bulai E.R., Bălan C., 2021, Evaluation of the toxicity of some heavy metals on yeasts using a diffusimetric method of analysis, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 67 (71), 3, 10-19.

Filote C., Ciupercă O.T., **Volf I.,** 2021, Qualitative assessement of polyphenols extracted from Fucus spiralis biomass through high-performance thin-layer chromatography, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 67 (71), 2, 41-49.

Bejenari I., Apostolescu G.A., **Volf I.,** 2021, Assessement of crude liquid phase resulted in hydrothermal crbonziation of spruce bark wastes, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 67 (71), 1, 43-53.

Zotica T.A., Chirilă S., Balan C., **Volf I.,** 2019, Analysis of the vascular flora from a soil affected by anthropogenic sources**,** Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 65 (69), 4, 45-52.

Damaschin R., Popa VI., **Volf I,** 2018, A Suitable Method for Polyphenols Complexes with Copper, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 64 (68), 3, 19-29.

Pătrăuţanu, O., Brebu, M., Popa, V.I., **Volf, I.,** 2017, Opportunity to Apply Thermal Decomposition of Spruce Bark after Extractives Recovery**,** Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 63, 3, 23 – 33.

Ciupercă, O.T., Tebrencu, C.E., **Volf, I.,** 2017, Polyphenolic content evaluation in branches of *Rosa canina l.*and **H***ippophae rhamnoides l.*Sp., Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 63, 1**,** 49 – 58.

Talmaciu, A., Tanase, C., **Volf, I.,** Popa, V.I., 2015, Influence of phenolic compounds on Ocimum basilicum L. development*,* Scientific Annals of the "Al. I. Cuza " University of Iasi. Genetics and Molecular Biology, tom XVI, fasc. 2, 83-88.

Ghitescu, R. E., Ignat, I., **Volf, I.,** Popa, V.I., 2012, Extraction and Identification of Bioactive Compounds Using Non-Destructive Separation Techniques, Bulletin of the Polytechnic Institute of Iasi, Tom LVIII(LXII), Fasc.1, 49-56.

Tarabuta, I. P., **Volf, I.,** Popa,V.I., 2012, Total Phenolic Index Methods Used in the Present Scientific Literature, Bulletin of the Polytechnic Institute of Iasi, Tomul LVIII (LXII), Fasc.1,149-156.

Hainal, A.R., **Volf, I**., Popa, V.I., 2011, Influence of Copper Ions in Aqueous Extracts of *Vitis Vinifera* Grape Seeds on the Development of *Rhodotorula Mucilaginosa* Yeast, Bulletin of the Polytechnic Institute of Iaşi, Section Chemistry and Chemical Engineering, Tome 57 (3), 205-211.

Hainal, A.R., **Volf, I**., Popa, V.I., 2011, Influence of Aqueous Extract from the Bark of *Picea Abies* on Development of a Yeast Species *Rhodotorula Spp,* Bulletin of the Polytechnic Institute of Jassy, Section Chemistry and Chemical, Engineering, 2011, Tome 57 (1), 43 – 51.

Stingu, A., **Volf, I.,** Popa, V.I., 2011, Challenge of Using Natural Polyphenolic Extracts in Bioremediation, Bulletin of the Polytechnic Institute of Iaşi, Section Chemistry and Chemical Engineering, Tome 57 (2), 11 – 19.

Tanase, C., Stîngu, A., **Volf, I.,** Popa, I.V., 2011, The effect of spruce bark polyphenols extract in combination with deuterium depleted water (DDW) on *Glycine max* L. and *Helianthus annuus* L. development, Scientific Annals of the "Al. I. Cuza " University of Iasi. Genetics and Molecular Biology, tom XII, fasc 3, 115-120.

Ignat, I., **Volf, I**., Popa, V.I., 2011, Isolation and Characterization of Polyphenols from Spruce Wood Bark, Bulletin of the Polytechnic Institute of Iaşi, Section Chemistry and Chemical Engineering, 2011, Tome 57 (2), 117 – 125.

Tanase, C., Stingu, A., **Volf, I.,** Popa,V.I., 2011, The influence of spruce bark aqueous extract in combination with deuterium depleted water (ddw) on *Glycine max* L. plant, Scientific Papers, Horticulture Series, vol. 54. (1), 59 – 65.

Tanase, C., Hainal, A.R., Ignat, I., **Volf, I**., Popa, V.I., 2011, Development of *Rhodotorula* yeast strain under the influence of polyphenolic compounds in the presence of copper ions, Scientific Papers, Horticulture Series, vol. 54. (1), 109-115.

Tanase, C., Stingu A., **Volf I.**, Popa V.I., 2011, Deuterium depleted water and spruce bark extract - bioregulators for maize and rape plants, Bulletin of the Polytechnic Institute of Iaşi, Section Chemistry and Chemical Engineering, Tome 57, (2), 89–98.

Stingu, A., **Volf, I.,** Popa, V.I, 2010, On the possibilities of using natural bioactive compounds as plant growth regulator, Scientific Papers, Horticulture Series, vol. 53. (1), 71-77.

Stingu, A., **Volf, I.,** Popa, V.I, 2010, Bioaccumulation of heavy metal in oat plant under polyphenolic compounds treatment, Scientific Papers, Horticulture Series, vol. 53. (1), 77-83.

Tofan, L., Păduraru, C., **Volf, I**., Bălan, C., 2010, Removal of lead (II) from aqueous solution by sorption on natural hemp fibers, Scientific Papers, Agronomy Series, vol. 53, (1), 150-152.

Tofan, L., Păduraru, C., **Volf, I**., Bălan, C., 2010, Kinetic and thermodynamic profile of Pb (II) sorption by untreated hemp fibers, Scientific Papers, Agronomy Series, vol. 53, (1), 146-149.

Tofan, L., Păduraru, C., **Volf, I.,** 2010, Comparative study concerning the retention of some heavy metal ions on hemp fibers, Bulletin of the Polytechnic Institute of Iasi, series Chemistry and Chemical Engineering, tome LVI, (1), 137-145.

Ignat,I., Stangu,A., **Volf, I**., Popa,V.I., 2009, Natural bioactive compounds as plant growth regulators. Scientific Papers, series Agronomy, vol.52, (1), 187-192.

Stingu, A., Ignat,I., **Volf**, **I.**, Popa, V.I., 2009, Spruce bark aqueous extracts as modulator in cooper induced stress, Scientific Papers, series Agronomy, vol.52, (1) , 271-276.

Tofan, L., Paduraru, C., **Volf, I.,** 2009, Sorption kinetics and thermodynamics for the removal of lead (II) ions from aqueous solutions on thermal power plant ash, Scientific Papers, series Agronomy, vol.52, (1), 512-517.

Tofan,L., Paduraru, C., **Volf, I.,** 2009, Concentration of Cd (II) trace amounts from large volumes of aqueous samples on chemically modified hemp fibers, Scientific Papers, series Agronomy, vol.52, (1), 506-511.

Stingu, A., **Volf, I**., Popa, V.I., 2009, Chestnuts (*Castanea sativa*) extracts-a potential plant growth regulator, Bulletin of the Polytechnic Institute of Iasi, tomul LV (LIX), fasc. 4, 69-77.

Hainal, A.R., **Volf, I.,** Popa, V.I., 2009, Regarding the influence of *Asclepias Syriaca* aqueous extracts in the development of a *Rhodotorula* spp. strain yeast, Bulletin of the Polytechnic Institute of Iasi, tomul LV (LIX), fasc. 4, 95 -102.

Stingu, A.,**Volf, I.,** Popa, V.I., 2009, Study of radish (R*aphanus sativus L.)* response to elevated level of cadmium and copper ions, Bulletin of the Polytechnic Institute of Iasi, tomul LV (LIX), (4), 115-124.

Ignat, I., Fauduet, H., Bostyn, S., **Volf, I.**, Popa, V.I., 2009, Study on isolation and characterization of some polyphenols from agroindustrial by products, Bulletin of the Polytechnic Institute of Iasi, tomul LV (LIX), (4), 199 – 208.

Suteu, D., **Volf, I**., Rusu, G., 2006, Séparation des ions métalliques polluante de l'eau avec des matériaux naturels a base de lignine et de cellulose. Scientific Study & Research Chemistry, Biotechnology, Food Industry, vol. VII, no.2, 435-443.

Dănăilă, M., **Volf, I.,** Popa, V.I., 2006, Natural polyphenolic compounds–modulators of yeast fermentation activities. Bulletin of the Polytechnic Institute of Iasi, tom 52, (3-4), 129-136.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

Hainal, A. R., Ignat, I., Stingu, A., **Volf, I.,** Popa, V.I., 2009, The influence of some natural polyphenols on *Rhodotorula spp*. growth in the presence of copper ions, Metal Elements in Environment, Medicine and Biology, tome IX, Romanian Academy, 79-84.
Stangu, A., Ignat, I., Hainal, A., **Volf, I**., Popa,V.I., 2009, Behavior of tomato plant during cultivation in the presence of copper in forest and sandy soils, Metal Elements in Environment, Medicine and Biology, tome IX, Romanian Academy, 90-94.
Volf, I., Suteu, D., 2008, Researches concerning water disinfection using a new technique based on UV radiation, Bulletin of the Transylvania University of Brasov, vol. 15 (50) – series B, ISSN 1223 – 964X, Special Issue No.1 Vol. II, ISBN 978–973–598–392–5, 711-718.
Lazar, L., **Volf, I**., Suteu, D., 2008, Environmental pollution reduction through SCR-deNOx treatment of the gases resulted from waste incineration, Bulletin of the Transylvania University of Brasov, vol. 15 (50) – series B, ISSN 1223 – 964X, Special Issue No.1 Vol. II, ISBN 978–973–598–392–5, 537-544.

I. Lucrări ştiinţifice publicate în volumele conferinţelor

Aiordăchioaie M.B., Zotica T.A, Agapie D., **Volf I.*,** 2026, Natural zeolites as amendments for enhacing soil resilience, 26th International Multidisciplinary Scientific GeoConference SGEM 2026 04 - 13 Jul, Albena Co, Bulgaria. https://www.sgem.org/index.php/dates-deadlines/conference-plenary-programme.
Aiordăchioaie M.B., **Volf I.,** 2025, A critical survey on sustainable approach for agricultural soil resilience, 8th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2025, May 14-17, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2025/05/Program-2025_final_2.pdf
Ungureanu G., Chelaru B., **Volf I.,** 2025, Atmospheric emissions and effects on urban area environment generated by construction industry, 8th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2025, May 14-17, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2025/05/Program-2025_final_2.pdf
Volf I., Armanu G.E., Secula M.S, 2025, A natural sustainable carrier for bacterial immobilization used in bioremediation, Patent application No. A/00606 from 11.10.2024, 17 th European Exhibition of Creativity and Innovation, EUROINVENT 2025, May 8 – 10, https://www.euroinvent.org/

Armanu G.E., **Volf I.,** 2024, From biomass to value-added materials: The relevance of biochar and hydrochar in bioremediation processes and circular economy framework, International conference Applications of Chemistry in Nanosciences and Biomaterials Engineering NanoBioMat 2024, Nov 27-29, https://nanobiomat.eu/download/nanobiomat2024w_program/

Armanu G.E., Secula M.S., Cimpoeşu N., **Volf I.,** 2024, A biobased nano/micro-structured material for microorganisms immobilization, XXIVth International Multidisciplinary Scientific GeoConference: Surveying, Geology and Mining, Ecology and Management – SGEM 2024, 29 Jun - 8 Jul, https://www.sgem.org/index.php/dates-deadlines/conference-plenary-programme.

Bejenari I., Secula M.S., Volf I., 2024, Integral valorization of of biomass waste towards sustainable and value-added hybrid materials, PolyChar World Forum on Advanced Materials, 30th edition, September 11-13. https://icmpp.ro/polychar'30/program.php

Armanu G.E., Secula M.S., Heipieper H.J., **Volf I.,** 2024, *Pseudomonas canadensis* immobilized on a carbonaceous material enhance plasticizer biodegradation, XXIVth International Multidisciplinary Scientific GeoConference: Surveying, Geology and Mining, Ecology and Management – SGEM 2024, 29 Jun - 8 Jul, https://www.sgem.org/index.php/dates-deadlines/conference-plenary-programme.

Armanu G.E., Bertoldi S., Eberlein C., Heipieper H.J., Secula M.S., **Volf I.,** 2024, Immobilized bacterial cells on a natural carbonaceous material for diethyl phthalate biodegradation, 7th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2024, May 15-17, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2024/05/Program-CSD2024_full_Updated_12_mai_cover-1.pdf

Armanu G.E., Secula M.S., **Volf I.,** 2023, Eco-efficient hydrochar for immobilization of P*seudomonas species*, The 12th International Conference on Environmental Engineering and Management ICEEM 12, Circular Economy and Sustainability, https://www.iceem.tuiasi.ro/wp-content/uploads/ICEEM12_Program-04.09.2023_f.pdf

Armanu G.E., Bertoldi S., Chauhan Z., Eberlein C., Nikolausz M., Shmidt M., Heipieper H.J., **Volf I.,** 2023, Biodegradation of phthalic acid esters using immobilized bacteria on a natural carbonaceous porous material, Annual International Conference of the Association for General and Applied Microbiology, VAAM 2023, Göttingen, https://vaam.de/aktivitaeten/jahrestagung/archiv-der-jahrestagungen/

Toma A.C., **Volf I.,** 2023, A short review on urban air pollution and innovative bioremedial approaches. 6th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2023, May 17-19, https://conferinta-csd.tuiasi.ro/organizers/2023-2/.

Armanu G.E., Tofanica B., Secula M.S., Mamaliga I., **Volf I.,** 2022, Predictive carbonaceous materials yields resulted from carbonization in relation with the main components of the feedstock, International Conference SICHEM 2022, Hydrogen the future energy and chemical engineering vector, November https://sicr.ro/wp-content/uploads/2022/11/SICHEM_Program_2022_v12.pdf

Armanu G.E., Tofanica B.M., **Volf I.,** 2022, Measurement of key compositional parameters in three type of biomass wastes in order to define the appropriate feedstock for thermochemical conversion, The 6th International Conference on Chemical Engineering ICCE2022, Advanced Materials and Processes for a Sustainable Development, October 5-7, http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2022/pdf/ICCE2022-program.pdf

Armanu G.E., **Volf I,** 2022, Natural carriers for bacterial immobilization used in bioremediation, 5th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2022, May 18-20, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2022/05/11-mai_Program-CSD2022.pdf

Ortovan C.L., Suteu D., **Volf I.**, Zaharia C., 2022, Application of different types of residual biomass for retaining of some emerging pollutants from industrial effluents, 5th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2022, May 18-20, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2022/05/11-mai_Program-CSD2022.pdf.

Stan L., **Volf I.,** 2022, Carbon nano/microstructures prepared through pyrolytic processing of biomass wastes, 5th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2022, May 18-20, https://conferinta-csd.tuiasi.ro/wp-content/uploads/2022/05/11-mai_Program-CSD2022.pdf.

Mardare G., Lazar L., **Volf I.,** Malutan T., 2021, Hyoscine extraction from *Datura innoxia* biomass and analysis by spectrophotometric and fluorescence methods, Progress in Organic and Macromolecular Compounds, Macro 2021, (https://www.icmpp.ro/macroiasi2021).

Diaconu M., **Volf I.,** Cretescu I., Soreanu G., 2021, Response of the microorganisms in the compost bed towards the volatile petroleum hydrocarbons exposure in the presence of the most prevalent

inorganic gases in air, International Conference on Environmental Engineering and Management ICEEM 11, September 8-11, Muttenz, Elvetia (www.iceem.ro).
Bejenari I., Dinu R., **Volf I.,** Mija A., 2021, A sustainable approach through hydrochar addition in bio-based new composite materials, International Conference on Environmental Engineering and Management ICEEM 11, September 8-11, Muttenz, Elvetia (www.iceem.ro).
Soreanu G., Diaconu M., Maier S., **Volf I.,** Cretescu I., 2021, Enhancing the environmental performance of biotrickling filters treating volatile organic compounds in air, WMESS 2021, September 6-10, Praga (www.mess-earth.org).
Bejenari I., Apostolescu G., **Volf I.,** 2021, Assessement of crude liquid phase resulted from hydrothermal conversion of spruce bark wastes, 4th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2021, May 19-21, http://www.csd2021.tuiasi.ro/program.php
Petre V.A.,Hristea G., Dascălu R.C, Marinescu V., Sbarcea G., **Volf I.,** 2021, New approaches to obtain graphenelike materials from lignocellulosic wastes, 4th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2021, May 19-21, http://www.csd2021.tuiasi.ro/program.php
Stan L., Secula M.S., **Volf I.,** 2021, Biomass waste derived porous materials for hydrogen storage, 4th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, CSD 2021, May 19-21, http://www.csd2021.tuiasi.ro/program.php
Bejenari I., Petuhov O., Lisa G., Hristea G., **Volf I.,** 2020, Chemical and structural characterization of carbon rich material from hydrothermal conversion of spruce bark, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2020, October 28-30, (http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2020/index.html).
Damaschin R.P., Lazăr M.M., **Volf I.,** Dinu M.V., 2020, Synthesis and characterization of novel cryogels based on dextran and polyphenolic extract from spruce bark, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2020, October 28-30, (http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2020/index.html).
Ungureanu G., Patrautanu O.A., **Volf I.,** 2020, Efficient remediation of environmental hazardous using a carbon rich material from biomass waste conversion, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2020, October 28-30, (http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2020/index.html).
Roșca M., Diaconu M., Cozma P., Hlihor R.M., Smaranda C., Mămăligă I., **Volf I.,** Gavrilescu M., 2020, Bioremediation of aqueous solutions polluted with Cd2+ ions by Bacillus megaterium in a stirred tank bioreactor, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2020, October 28-30, (http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2020/index.html).
Diaconu M., **Volf I.,** Cretescu I., Juzsakova T., Soreanu G., 2020, Carbon biocapture in the frame of the climate change and air quality issues: a preliminary microbiota screening, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2020, October 28-30, (http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2020/index.html).
Zotica T.A., Gostin I., Popa V.I., **Volf I.,** 2019, Design of a bioremediation system for a soil affected by anthropogenic sources, 10th International Conference on Environmental Engineering and Management ICEEM 10, September 17-20, (www.iceem.ro).
Bejenari I., Carausu C., **Volf I.,** 2019, Hydrothermal carbonization of spruce bark. The process analysis, 10th International Conference on Environmental Engineering and Management ICEEM 10, September 17-20, (www.iceem.ro).
Damaschin R., Carausu C., Peptu C., **Volf I.,** 2019, Central composite experimental design for ultrasound assisted extraction of polyphenols from Picea abies bark wastes, 10th International Conference on Environmental Engineering and Management ICEEM 10, September 17-20, (www.iceem.ro).
Tanase, C., Talmaciu, A. I., Berța, L., Mircia E., **Volf I.,** Popa, V. I., 2018, Biosynthesis of Silver Nanoparticles Using Natural Extracts as a Novel Bioresource with Antibacterian Activity , 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Diaconu, M., **Volf, I.,** Cretescu, I., Șoreanu G., 2018, Influence of Different Liquid Medium on Spirulina platensis Microalgae Cultivation for Environmental Applications, 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).

Zotica T. A. , Chirilă S. D. , Balan C., **Volf, I.,** 2018, Raster Sampling, Chemical Characteristics and Floristic Peculiarities of a Soil Affected by Anthropic Activities , 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Pătrăuţanu, O., Lazăr, L., Popa, V. I., **Volf I.,** 2018, Influence of Particle Size and Distribution on Polyphenols Ultrasound Assisted Extraction Process, 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Damaschin, R. P., Popa V. I., **Volf I.,** 2018, Studies on Some Polyphenols Complexes with Copper(II), 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Ciupercă O. T., Ţebrencu C. E., , Lazar L., Ionescu E., **Volf I.,** 2018, Comparative Evaluation of Polyphenols in Branches Extracts of Rosa canina, Hippophae rhamnoides and Prunus spinosa sp. Using Conventional Extraction Methods, 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Ciupercă O. T., ȚebrencuC., Lazăr L., **Volf I.,** 2018, Investigation on Microwave Assisted Extraction Process of Some Polyphenols from Branches of Prunus spinosa L. 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Covatariu D., Covatariu G., **Volf I.,** 2018, Considerations on the Radioactivity's Effect of Materials Embedded in Constructions to the Living Environment, 4th International Conference on Chemical Engineering, Innovative Materials and Processes for a sustainable development - ICCE 2018, Oct. 30 – Nov.2, Iași, Romania (http://www.ch.tuiasi.ro/ICCE2018/index.html).
Zotica T. A., Balan C., **Volf I.,** 2018, Physical characteristics and ph variation in a river meadow soil near to a thermal power plant site, TUIasi Doctoral School Conference, 23-24 mai, Iasi (http://www.csd.tuiasi.ro/).
Patrautanu O.A., Ciuperca O.T., Popa V.I., **Volf I.,** 2018, HPTLC evaluation of polyphenols and condensed tannins profile separated from spruce bark using a green extraction method, TUIasi Doctoral School Conference, 23-24 mai, Iasi (http://www.csd.tuiasi.ro/).
Damaschin R.P., Peptu C.A., Goanță M., Popa V.I., **Volf I.,** 2018, A suitable method for copper complexes with flavonoids, TUIasi Doctoral School Conference, 23-24 mai, Iasi, (http://www.csd.tuiasi.ro/).
Brebu M., Vasile C., Patrautanu O., Popa V.I., **Volf I.**, 2017, TG-FTIR/MS and Py-GC/MSD analysis of spruce bark and of its structural components, 4th Central and Eastern European Conference on Thermal Analysis & Calorimetry CEEC-TAC4) 28-31 August 2017, Chisinau, Moldova (http://www.ceec-tac.org/).
Filote, C., Santos, S., Boaventura, R., **Volf, I**., Botelho, C., 2017, Laminaria sp. and Fucus spiralis marine macroalgae as potential biomass sources for biorefinery processing, Symposium on Chemical, Biological and Environmental Engineering from the DCE 2017 - Doctoral Congress in Engineering, June, 8-9, Porto, Portugal (https://paginas.fe.up.pt/~dce17/).
Ungureanu G., Santos S., **Volf I.**, Botelho C., 2017, A critical assessments of some macroalgae biomass for mine polluted water remediation, 9th International Conference on Environmental Engineering and Management ICEEM 09, September 6-9, Bologna, Italy (www.iceem.ro)
Pătrăuţanu, O., Brebu, M., Popa, V.I., **Volf, I.,** 2017, Opportunity to Apply Thermal Decomposition of Spruce Bark after Extractives Recovery, TUIasi Doctoral School Conference, 24 mai, Iasi (http://www.csd.tuiasi.ro/).
Ciupercă, O.T., Tebrencu, C.E., **Volf, I.,** 2017, Polyphenolic content evaluation in branches of *Rosa canina l.*and H*ippophae rhamnoides l.*Species, TUIasi Doctoral School Conference, 24 mai, Iasi (http://www.csd.tuiasi.ro/).
Filote, C., Popa, V.I., **Volf, I.,** 2017, Marine algae biomass potential for obtaining biofuels and bioproducts, Zilele Academice ale ASTR, Constanta, 6-7 oct., (https://www.astr.ro/activitati-si-evenimente/zilele-academiei-de-%C8%98tiin%C8%9Be-tehnice-din-rom%C3%A2nia-2017).
Volf.I., Innovation and Creativity @ Faculty of Chemical Engineering and Environmental Protection, EUROINVENT, Iasi, mai 2017.
Pătrăuţanu O., Ungureanu G., Brebu M., Popa V.I., **Volf I.**, 2017, Green alternatives in biorefining process for spruce bark waste valorisation, 9th International Conference on Environmental Engineering and Management ICEEM 09, September 6-9, Bologna, Italy (www.iceem.ro).

Ciupercă O.T., Creţu R.M., Tebrencu C.E., Ionescu, E., Iacob E., **Volf I.,** 2017, HPTLC investigation of condensed tannins in branches of R*osa canina* l., H*ippophae rhamnoides* l. and P*runus spinosa* l. Species, 3rd International Conference on Natural Products Utilization, 18-21 October 2017, Bansko, Bulgaria, From Plants to Pharmacy Shelf (www.icnpu.com/2017).

Ciupercă O.T., Tebrencu C.E., **Volf I.,** 2017, Polyphenols investigation in branches of *Prunus spinosa* sp, 20th Romanian International Conference on Chemistry and Chemical Engineering, (RICCCE 20), september 6-9, 2017, Poiana Brasov, (http://ricce20.chimie.upb.ro).

Bujor, O.C., Mihăilescu, C., Loonis, M., **Volf, I.,** Popa, V.I., Dufour, C., 2015, Phenolic constituents in Lingonberry: dynamic accumulation in leaf, stem and fruit extracts at different harvest periods, 22nd Young Research Fellows Meeting - Biology and Chemistry: a permanent dialogue, 4-6 February, Paris, France.

Bujor, O.C., **Volf, I.,** Popa, V.I., Dufour, C., 2015, Inhibition of lipid oxidation by phenolic bilberry and lingonberry extracts in an in vitro digestion model, 4th International Conference of Food Digestion, 17-19 March, Naples, Italy.

Talmaciu., A., Tanase C., Bara C.I., **Volf, I.,** Popa, V.I., 2015, New Aspects in Biomass Wastes Valorization: Spruce Bark as Plants Growth Regulators, 08 ICEEM, 9-12 September, Iasi, Romania.

Ungureanu, G., Santos S., Boaventura, R., Volf, I., Botelho, C., 2015, On the Possibility of Using Green Macroalgae Biomass as Sorbent for Antimony from Aqueous Solutions, 08 ICEEM, 9-12 September, Iasi, Romania

Axinte, O., **Volf, I.,** Bulgariu, L., 2015, Adaptive Management for the Sustainable Development of Lake Amara, 08 ICEEM, 9-12 September, Iasi, Romania

Filote C., Ungureanu, G., Boaventura, R., Santos, S., **Volf, I.,** Botelho, C., 2015, Green Macroalgae from the Romanian Coast of Black Sea: Physico-Chemical Characterization and Future Perspectives on their Use as Metal Anions Biosorbents, 08 ICEEM, 9-12 September, Iasi, Romania.

András, C.D., Salamon, R.V., Szép, A., **Volf, I**., Barabás, I., 2014, Influence of the drying and extraction methods on caraway (*Carum carvi l*.) essential oil yield and limonene and carvon relative concentration, 2nd International Conference on Chemical Engineering, Innovative Materials and Processes - ICCE 2014, November, 5-8, Iași, Romania.

Talmaciu, A.I., **Volf, I.**, Mamaliga, I., Popa, V.I., 2014, Supercritical fluid technology applied for polyphenols extraction from *Picea abies* bark: a preliminary study, 2nd International Conference on Chemical Engineering, Inovative Materials and Processes - ICCE 2014, November, 5-8, Iași, Romania.

Talmaciu, A.I., Lazar, L., **Volf, I.**, Popa, V.I., 2014, Kinetic investigation of the ultrasound assisted extraction of polyphenols from spruce bark, 2nd International Conference on Chemical Engineering, Inovative Materials and Processes - ICCE 2014, November, 5-8, Iași, Romania.

Bujor, O., Mihăilescu, C., Loonis, M., **Volf, I**., Popa, VI, Dufour, C., 2014, Influence of different harvest periods on the phenolic profile and content of leaf, stem and fruit extracts of bilberry, 2nd International Conference on Chemical Engineering, Inovative Materials and Processes (ICCE 2014), November, 5-8 Iasi, Romania**.**

Bujor, O., **Volf, I**., Popa, VI, Dufour, C., 2014, Antioxidant activity of bilberry extracts from different morphological parts at three vegetative stages, 2nd International Conference on Chemical Engineering, Inovative Materials and Processes, (ICCE 2014), November, 5-8, Iasi, Romania.

Bujor, O., **Volf,I.,** Popa,V.I.,Dufour C., 2014, Influence des stades végétatifs sur l'activité antioxydante des extraits de branches, feuilles et fruits d'airelle rouge, Colloque Franco-Roumain de Chimie Appliqué CoFrRoCa, September 15-18, Montpellier, France, 131-133.

Ghitescu, R., Bühlmann, A.M., **Volf, I.,** Popa, V.I., Fortunato, G., 2014, Polyphenols encapsulation by electrospinning to obtain substrates with biological activity, 8th International Conference on Polymer and Fiber Biotechnology, 25-27 May, Braga, Portugal.

Ghitescu, R.E., Mihailescu, C., **Volf, I.,** Popa, V.I., 2013, Microwave assisted extraction of natural compounds with antioxidant activity from *Picea abies* bark, 11th Romanian International Symposium on Cosmetic and Flavor Products, 4-7 June, Iasi.

Tanase, C., Vintu, S., **Volf, I.,** Popa, V. I., 2012, Potential applications of wastes from energy and forestry industry in plant tissue culture, COST Action FP0901, Analytical tools for biorefinery, August, 30-31, Helsinki, Finland, 23-25.

Stingu, A., Ignat, I., **Volf, I.,** Popa,V.I., 2012, Improving phytoremediation process by using *Picea abies* and *Aesculus hipocastanum* residues, 22nd Annual International Conference on Soil, Water, Energy, & Air, March, 19-22, San Diego, California, USA .

Ignat, I., **Volf, I**., Popa, V.I., 2011, Characterization of extractives from some raw materials processed by biorefining, COST Action FP0901 Analytical tools for biorefinery, January, 25-26, Paris, France.

Ignat, I., **Volf, I**., Popa, V.I., 2011, Assessment on phenolic profile of hawthorn (*Crategus spp*.) extracts, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, Stockholm, Sweden.

Popa, V.I., Stingu, A., **Volf, I**., 2011, New directions in using natural bioactive compounds from grape seeds extract as amendment in heavy metal contaminant soil, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, Stockholm, Sweden, 379-380.

Popa, V.I., Hainal, A., **Volf, I.,** 2011, Influence of lignin products on the development of yeast strains *Rhodotorula spp*., Proceedings of third Nordic Wood Biorefinery Conference, March, 22-24, Stockholm, Sweden, 385-386.

Stingu, A., Popa, V.I., Ignat, I., **Volf, I.,** 2011, Phenolics profile of *Aesculus hippocastanum* extract and possibilities to use them in phyto remediation process, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 133-136, ISBN 978-88-95688-65-7.

Ignat, I., Neamtu, M., **Volf, I**., Popa, V.I., 2011, Stability of plant polyphenols against UV radiation, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 141-145.

Hainal, A.R., Popa, V.I., **Volf, I.,** 2011, Study of interaction between copper ions and aqueous extracts from the bark of *Picea abies* in the culture of *Rhodotorula* specie, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 353-356.

Ignat, I., **Volf, I.,** Popa, V.I., 2010, L'écorce d'épicéa- source naturelle de composes polyphenoliques, Actes du Sixième Colloque Franco-Roumain de Chimie Appliquée, CoFrRoCa , Orléans, France, 158-160.

Stingu, A., **Volf, I**., Popa, V.I., 2010, Ressources végétales comme amendements dans les processus de biorestauration, Acte du Sixième Colloque Franco-Roumain de Chimie Applique- CoFrRoCa, Orléans, France, 173-176.

Stingu, A., **Volf, I.,** Popa, V.I., 2010, New approaches concerning the utilization of natural compounds in bioremediation, Proceedings of the 11th European Workshop on Lignocellulosics and Pulp, 16-19 August 2010, Hamburg, Germany, 185-188.

Popa, V.I., Ignat, I., **Volf, I.,** 2010, A comparison concerning separation and characterization of polyphenols from spruce wood bark, Proceedings of the 11th European Workshop on Lignocellulosics and Pulp, Hamburg, Germany, 529-532.

Stingu, A., **Volf I.,** Popa,V.I., 2010, Bioaccumulation of Cadmium under Polyphenolic Compounds Treatment, The 20th International Conference on Soils, Sediments, Water, and Energy, The Association for Environmental Health & Sciences, (AEHS) Foundation, 13-15 March, San Diego, California, SUA.

Stingu, A., **Volf, I**., Robu, I., Popa, V.I., 2010, Phytoremediation potential of *Brassica napus* in heavy metal polluted environment, International Conference on Environmental Pollution and Clean/Phytoremediation, 16-19 June, Pisa, Italy.

Stingu, A., **Volf, I.,** Popa, V.I., 2010, Natural bioactive compounds in copper bioremediation, DepoTech Konferenz, November 3-5, Montanuniversitat Leoben, Austria.

Stingu, A., **Volf, I**., Popa, V.I., 2010, Hyper accumulation of cadmium in maize plant (Zea mays), Proceedings of 14th International Symposium on Cellulose Chemistry and Technology, 8-10 September, Iasi, Romania, 163-167.

Stingu, A., **Volf, I.,** Popa, V.I., 2010, The influence of natural polyphenolic extract in plant copper bioaccumulation, Proceedings of 14th International Symposium on Cellulose Chemistry and Technology,8-10 September, Iasi, Romania, 334–339.

Hainal, A. R., Ignat, I., **Volf, I.,** Popa, V.I., 2010, *Transformation of polyphenolic products from biomass by some yeast species*, Proceedings of the 14th International symposium on Cellulose Chemistry and Technology, 8-10 September, Iasi, Romania.

Tofan, L., Păduraru, C., **Volf, I.,** 2010, Low-cost resources such as maize bran for Cu(II) ions removal, The 14th International Symposium on Cellulose Chemistry and Technology, 8-10 September, Iasi, Romania.

Popa, V.I. and **Volf I.,** 2008, Contributions to the complex processing of biomass, Proceedings of Nordic Wood Biorefinery Conference, Stockholm, Sweden, March 11-14, p.229

Cailean, D., Teodosiu, C., **Volf, I.,** Ciobanu, B., 2008, Occurrence and associated risk of nitrates/nitrites in the ground waters from the north-eastern part of Romania, Exposure and risk assessment of chemical Pollution, Subseries NATO Security through Science, Series – C: Environmental Security, Springer, Berlin, Heidelberg New York, ISI Proceedings, 415-429.

Volf, I., Badea, C., Ciobanu, B., Carauşu, C., 2008, New prototype equipment with UV radiation for water purification processes, Annals of DAAAM for 2008& Proceedings of The 19th INTERNATIONAL DAAAM SYMPOSIUM "Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", Viena, Austria, 1503-1506.

Popa, V.I., **Volf, I.,** 2007**,** *Green chemistry and sustainable development*, Proceedings of the 8th Forum of ILI – International Lignin Institute, May 10-12, Rome, Italy, 52-56.
Danaila, M., **Volf, I.,** Popa, V.I., 2007, Influence of polyphenols on the biosynthesis of carotenoids, Proceedings of the 8th Forum of ILI – International Lignin Institute, May 10-12, Rome, Italy,105-109.
Danaila, M., **Volf, I.**, Popa,V.I., Popa, M.I., 2007, Natural antioxidants from agro industrial wastes. Sources, separation and practical implications. The 8th Forum of ILI – International Lignin Institute, May 10-12, Rome, Italy, 67-71.
Popa, V.I., Anghel, N., Danaila, M., **Volf, I**., 2007, Natural polyphenolic compounds. Structure, bioavailability and microbial interactions, *T*he 8th Forum of ILI – International Lignin Institute, May 10-12, Rome, Italy, 97-101.
Frunză, M., Hulea, V., **Volf, I**., Dănăilă, M., Dumitriu, E., Popa, M.I., 2006, Matériaux lamellaires hybrides contenant des polyphenols. Le Quatrième Colloque Franco-roumain de Chimie Applique, 28 juin-2 juillet Clermont-Ferrand, France, 92-94.
Sutea, D., **Volf, I.,** Rusu, G., 2006, Séparation des substances polluantes de l éau avec des matériaux naturels a base de lignine et de cellulose, Le Quatrième Colloque Franco-roumain de Chimie Applique, 28 juin-2 juillet, Clermont-Ferrand, France, 263-265.
Suteu, D., Rusu, G., **Volf, I.**, 2006, Matériaux cellulosiques fonctionnalises avec des colorants réactifs et des ions métalliques, Le Quatrième Colloque Franco-Roumain de Chimie Applique, 28 juin-2 juillet, Clermont-Ferrand, France, 431-433.
Popa, V.I., **Volf, I.,** Anghel, N., Dumitru,M., 2006, Lignin and polyphenols as allelochemicals, The 7th International Lignin Institute Forum, 27-28 April, Barcelona, Spain, 67-71.
Volf,I., Robu, B., Popescu, M., Macoveanu, M., 2005, Key environmental risk factors and impact consideration issues for alcoholic beverages industry. Forum proceedings of the 3rd International Conference Ecological Chemistry, 20-21 may, Chisinau, Moldova, 111-122.
Volf,I., Stoica, G., Savin, C., Moisii, A., 2004, Selection of some strains of the yeast flora of the Cotnari area with practical implications in the wine manufacturing biotechnology, Materials of the International Conference InWine' 2004, Chisinau, Moldova, 151-156.
Popa, V.I., **Tudose (Volf)**, **I.,** Anghel, N., 2000, Influence of polyphenols and lignin products on the biosynthesis processes, Fifth International Forum International Lignin Institute, september 7-8, Lausanne, Switzerland, 1-12.
Tudose (Volf), I., Popa, V.I., 2000, Plants regulators from stems of Vitis Vinifera, Forum proceedings of the Sixth European Workshop on Lignocellulosic and Pulp, Bordeaux, France, 633-636.
Tudose (Volf), I., Damian, D., Anghel, N., Paşa, R., Popa, V.I, 2000, Recovery of vegetable wastes from Vitis sp. in way to improve the cultivation of yeast. Practical implications. Scientific papers of International Symposium: Prospects of the 3-rd Millennium Agriculture, 24-25 November, Cluj Napoca, Romania, 259-266.

J. Invenţii.

Volf I., Savin C., Suc natural concentrat de struguri, cu proprietăţi antioxidante şi procedeu de obţinere. Brevet nr. 122471 din 26.07.2009.

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B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate (selecţie).

1. A.A. Ciobanu, I. Michalak, **Laura Bulgariu**, Chapter 5: Algae and seaweed biomass for bioremediation of heavy metal-contaminated wastewater, in Bio-organic Amendments for Heavy Metal Remediation Water, Soil and Plant Approaches and Technologies, Edited by A. Ditta, S. Mehmood, M. Imtiaz, M.S. Tu, Elsevier Amsterdam, Netherlands, 2024, ISBN: 978-0-443-21610-7, 756 pgs, pp. 69-84.
2. **Laura Bulgariu**, Chapter 17: Physico-chemical methods for the removal of heavy metals and their use in remediation technologies, in Environmental Metagenomics, Water Quality and Possible Remediation Measures of Polluted Waters: A Combined Approach, Edited by I. Tyagi, V. Kumar, R.R. Karri, Elsevier Amsterdam, Netherlands, 2024, ISBN: 978-0-443-13659-7, 318 pgs, pp. 217-232.
3. **Laura Bulgariu**, D. Bulgariu, Chapter 1.17: New Alternative fertilizers based on algae biomass loaded with metal ions: Concepts and applications in the improvement of soils quality, in Encyclopedia of Marine Biotechnology, Edited by: Se-Kwon Kim, John Wiley & Sons Ltd, 2020, ISBN: 978-1-119-14377-2, 3248 pgs., pp. 515-546.
4. I. Ahmad, N. Fatima, E. Naz, Z.U.R. Farooqi, **Laura Bulgariu**, Chapter 12: Treatment Methods for Mercury Removal From Soil and Wastewater, in Mercury Toxicity Mitigation: Sustainable Nexus Approach, Edited by N. Kumar, Springer Nature Switzerland, 2024, https://doi.org/10.1007/978-3-031-48817-7_12, 282 pgs., pp. 257-281.
5. K. Dziergowska, **Laura Bulgariu**, I. Michalak, Chapter 4: Algae-based low-cost strategy for wastewater treatment, in Algae and Aquatic Macrophytes in Cities: Bioremediation, Biomass, Biofuels and Bioproducts, Edited by V.C. Pandey, Elsevier Amsterdam, Netherlands, 2022, ISBN: 978-0-12-824270-4, 390 pgs., pp. 65-102.
6. A.R. Lucaci, D. Bulgariu, **Laura Bulgariu**, Chapter 4: Marine Algae – Sustainable Raw Material for Bioethanol Production in Sustainable Ethanol and Climate Change, Edited by: M. Arshad, Springer Nature, Switzerland, 2021, ISBN: 978-3-030-59280-6, 225 pgs, pp. 65-85. https://doi.org/10.1007/978-3-030-59280-6_4.
7. **Laura Bulgariu**, D. Bulgariu, Chapter 1.17: New Alternative fertilizers based on algae biomass loaded with metal ions: Concepts and applications in the improvement of soils quality, in Encyclopedia of Marine Biotechnology, Edited by: Se-Kwon Kim, John Wiley & Sons Ltd, 2020, ISBN: 978-1-119-14377-2, 3248 pgs., pp. 515-546.
8. **Laura Bulgariu,** D.Bulgariu – Chapter 4: Bioremediation of Toxic Heavy Metals Using Marine Algae Biomass, in Green Materials for Wastewater Treatment, Edited by: Mu. Naushad and E. Lichtfouse, Springer Nature, 2020, ISBN: 978-3-030-17723-2. DOI: 10.1007/978-3-030-17724-9_4. pp.69-98.
9. S. Rana, J.N. Bhakta, **Laura Bulgariu**, E. Wojciechowska, A.k. Panigrahi, S.k. Mandal – Chapter 5: Biological Tools in Ecological Engineering for Enbironmental Bioremediation, in Green Technology for Bioremediation of Environmental Pollution, Edited by: Jatindra Nath Bhakta, Susmita Lahiri and Bana Bihari Jana, Nova Science Publishers Inc., New York, 2019, ISBN: 978-1-53614-528-1, 364 pgs, pp.27-52.

10. **Laura Bulgariu,** D. Bulgariu – Chapter 6: Sustainable Utilization of Marine Algae Biomass for Environmental Bioremediation, in Prospects and Challenges in Algal Biotechnology, Edited by: Bhumi Nath Tripathi, Dhananjay Kumar, Springer Singapore, 2017, ISBN: 978-981-10-1949-4 (e-book: 978-981-10-1950-0), 326 pgs, pp. 179-217, DOI: 10.1007/978-981-10-1950-0_6.
11. G. Nacu, **Laura Bulgariu** – Chapter 3: Sawdust: A sustainable low-cost asdorbent for environmental remediation, in Sawdust: Properties, Potential uses and Hazard, Edited by: E. Stefan and K. Olaf, Nova Science Publishers Inc., New York, 2017, ISBN: 978-1-53612-493-4, 219 pgs, pp. 111-146.
12. **Laura Bulgariu,** M. Gavrilescu – Chapther 30: Bioremediation of heavy metals by microalgae, in Handbook of Marine Microalgae: Biotechnology Advances, Edited by: Se-Kwon Kim, Academic Press (Elsevier Amsterdam), 2015, ISBN: 978-0-12-800766-1, 605 pgs, pp. 457-469.
13. **Laura Bulgariu,** D. Bulgariu, - Chapter 33: Algae Waste Biomass: A New Class of Low-Cost Material with Potential Applications in Environmental Engineering, in Marine Algae Extracts: Processes, Products, and Applications, Edited by: Se-Kwon Kim and Katarzyna Chojnacka, Wiley-VCH Verlag GmbH & Co. KGaA, 2015, ISBN: 9783527337088, 722 pgs, pp. 575-602, DOI: 10.1002/9783527679577.ch33.
14. **Laura Bulgariu**, D. Bulgariu, C. Rusu, - Chapter 25: Marine algae biomass for removal of heavy metal ions, in Hb25_Springer Handbook of Marine Biotechnology, Edited by: Se-Kwon Kim, Springer Berlin Heidelberg, Berlin, 2015, ISBN: 978-3-642-53970-1, 1425 pgs, pp. 611-642, DOI: 10.1007/978-3-642-53971-8_25.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (selecţie).

1. M. Gavrilescu, M. Diaconu, **Laura Bulgariu**, I. Volf, C. Catrinescu, C. Smaranda, P. Cozma, R.M. Hlihor, C. Ghinea, L.C. Apostol, E.D. Comăniţă, M. Roşca, S.I. Vasilică, Explorarea şi exploatarea abilităţilor microorganismelor, plantelor şi a interacţiunilor dintre acestea pentru bioremedierea mediului, Editura Performantica, Iaşi, 2019, ISBN: 978-606-685-690-4, 252 p.
2. D.Bulgariu, C.Rusu, **Laura Bulgariu**, F. Filipov, Introducere in pedogeochimia analitică, Vol. 1, Editura Universităţii "Alexandru Ioan Cuza" Iaşi, 2014, ISBN 978-606-714-096-5, 255 p.
3. D. Bulgariu, **Laura Bulgariu**, Metode instrumentale de analiză – Principii, Vol. 2, Editura Universităţii "Alexandru Ioan Cuza" Iaşi, 2014, ISBN 978-606-714-093-4, 314 p.
4. **Laura Bulgariu** – Controlul analitic al calităţii produselor, Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-423-3, 215 p.
5. **Laura Bulgariu** – Metode instrumentale de analiză, Editura Politehnium, Iaşi, 2011, ISBN. 978-973-621-317-5, 260 p.
6. L.Tofan, **Laura Bulgariu**, O. Toma – Biochimie analitica. II. Aplicatiile biologice al biosenzorilor. Casa Editoriala Demiurg, Iasi, 2008,. ISBN. 978-973-152-111-4, 187 p.
7. L.Tofan, **Laura Bulgariu**, O. Toma – Biochimie analitica. I. Metode chimice de analiza. Metode de separare si concentrare a biomoleculelor. Casa Editoriala Demiurg, Iasi, 2007,. ISBN. 973-152-038-4, 280 p.
8. D. Bulgariu, **Laura Bulgariu** - Metode instrumentale de analiză în geoştiinţe. Volumul III: Metode de separare şi concentrare (Separarea prin cristalizare. Separarea prin electrodepunere. Separarea prin adsorbţie şi absorbţie. Separarea prin extracţie. Separarea prin schimb ionic). Casa Editoriala Demiurg, Iaşi, 2006. 464 p.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local (selecţie).

1. **Laura Bulgariu,** Gabriela Nacu – Metode instrumentale de analiză: Lucrări practice (ediţia a 3-a), Ed. Performantica, Iaşi, 2022, ISBN 978-606-685-940-0, 134 p.
2. **Laura Bulgariu,** Gabriela Nacu – Metode instrumentale de analiză: Lucrări practice (ediţia a 2-a), Ed. Performantica, Iaşi, 2017, ISBN 978-606-685-526-6, 115 p.
3. **Laura Bulgariu** – Controlul analitic al calităţii produselor, Îndrumar de laborator, Ed. Performantica, Iaşi, 2010, ISBN 978-973-730-740-6, 117 p.
4. **Laura Bulgariu** – Analiză instrumentală, Lucrări practice, Ed. Performantica, Iaşi, 2010, ISBN 978-973-730-739-2, 130 p.
5. **Laura Bulgariu**, G. Rusu – Metode instrumentale de analiză, Ed. Performantica, Iaşi, 2010, ISBN 978-973-730-713-2, 130 p.

6. D. Bejan, D. Bîlbă, L. Tofan, D. Şuteu, C. Păduraru, **Laura Bulgariu** – Metode chimice de analiză. Îndrumar de laborator, Ed. Performantica, Iaşi, 2006, ISBN 973-730-157-9, 174p.
7. D. Bîlbă, **Laura Bulgariu** – Metode Spectrometrice de Analiză, Ed. Performantica, Iaşi, 2005. ISBN 973-730-057-2, 126 p.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Bulgariu Laura**, Chimie analitică 2 – note de curs, 134 pg: http://www.ch.tuiasi.ro/cv/imm/bulgariulaura/
2. **Bulgariu Laura**, Metode instrumentale de analiză – lucrări practice, 39 pg: http://www.ch.tuiasi.ro/cv/imm/bulgariulaura/

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI (selecţie)

1. L. Munteanu, D. Bulgariu, **Laura Bulgariu**, Efficient removal of phosphate ions on activated algae biomass: Biosorption characteristics and practical implications, Journal of Environmental Chemical Engineering, 13 (2025) 116341. *https://doi.org/10.1016/j.jece.2025.116341*
2. B.E. Azanfire, D. Bulgariu, N. Cimpoeşu, **Laura Bulgariu**, Efficient Removal of Toxic Heavy Metals on Kaolinite-Based Clay: Adsorption Characteristics, Mechanism and Applicability Perspectives, Water 17, (2025) 1938. *https://doi.org/10.3390/w17131938*.
3. H. Liu, **Laura Bulgariu**, I. Cock, E. Kichamu, H. Zou, T. Li, S.H. Bai, Z. Xu, Global insights into the role of biochar in mitigating antibiotic resistance genes: Key properties and research trends, Ecological Indicators, 178 (2025) 113896. *https://doi.org/10.1016/j.ecolind.2025.113896*.
4. E. Fasniuc-Pereu, E.N. Drăgoi, D. Bulgariu, M.C. Popescu, **Laura Bulgariu**, Removal of Rifampicin and Rifaximin Antibiotics on PET Fibers: Optimization, Modeling, and Mechanism Insight, Polymers 2025, 17, 2089 *https://doi.org/10.3390/polym17152089*.
5. **Laura Bulgariu**, Ecological Synthesis of Precious Metal Nanoparticles: Harnessing the Potential of Marine Algae Biomass, Nanomaterials 2025, 15(19), 1492. *https://doi.org/10.3390/nano15191492*.
6. D.I. Fertu, **Laura Bulgariu**, M. Gavrilescu, Sustainable use of some natural materials and waste for the decontamination of environmental components polluted with heavy metals, Environmental Engineering and Management Journal, 23(7), (2024),1543-1569. *http://doi.org/10.30638/eemj.2024.107*.
7. D.I. Ferţu, A.A. Ciobanu, I.G. Cara, I. Motrescu, I. Ahmad, G. Nacu, **Laura Bulgariu**, Circular Approach of Using Soybean Biomass for the Removal of Toxic Metal Ions from Wastewater, Water, 16, (2024), 3663. *https://doi.org/10.3390/w16243663*.
8. A.A. Ciobanu, A.R. Lucaci, **Laura Bulgariu**, Efcient metal ions biosorption on red and green algae biomass: Isotherm, kinetic and thermodynamic study, Journal of Applied Phycology, 36, (2024), 3809–3827 *https://doi.org/10.1007/s10811-024-03332-9*.
9. A.R. Lucaci, **Laura Bulgariu**, Biosorption of Technologically Valuable Metal Ions on Algae Wastes: Laboratory Studies and Applicability, Water, 16, (2024), 512. *https://doi.org/10.3390/w16040512*.
10. M. Alikhani, E. Khoshkalam, J. Sadeghi, **Laura Bulgariu**, H. Eshghi, Efficient phosphate removal utilizing N, Zn-doped carbon dots as an innovative nanoadsorbent, RSC Advances, 14, (2024), 24534-24547. *https://doi.org/10.1039/D4RA02428A*.
11. D.Bulgariu, L. (Negrilă), Nemeş, I. Ahmad, **Laura Bulgariu**, Isotherm and Kinetic Study of Metal Ions Sorption on Mustard Waste Biomass Functionalized with Polymeric Thiocarbamate, Polymers, 15, (2023), 2301. *https://doi.org/10.3390/polym15102301*.
12. T.P. Chau, **Laura Bulgariu**, M. Saravanan, R. Rajkumar, A. Chinnathambi, S.H. Salmen, G.K. Jhanani, Bioremediation efficiency of free and immobilized form of Aspergillus niger and Aspergillus tubigenesis biomass on tannery effluent, Environmental Research, 231 (3), (2023), 116275. https://doi.org/10.1016/j.envres.2023.116275.
13. A.A. Ciobanu, D. Bulgariu, I.A. Ionescu, D.M. Puiu, G.G. Vasile, **Laura Bulgariu**, Evaluation of Thermodynamic Parameters for Cu(II) Ions Biosorption on Algae Biomass and Derived Biochars, Symmetry, 15, (2023), 1500. *https://doi.org/10.3390/sym15081500*.
14. A.A. Ciobanu, G.G. Vasile, **Laura Bulgariu**, Biosorption of Cu(II) ions on algae biomass and derived biochar, Environmental Engineering and Management Journal, 22(5), (2023), 899-907. (IF = 0.858, Q3). *http://doi.org/10.30638/eemj.2023.072*.

15. M. Minut, M. Diaconu, M. Roşca, P. Cozma, **Laura Bulgariu**, M. Gavrilescu, Screening of Azotobacter, Bacillus and Pseudomonas Species as Plant Growth-Promoting Bacteria, Processes, 11(3), (2023), 80. *https://doi.org/10.3390/pr11010080*.
16. H.B. Ortiz-Oliveros, N. Ouerfelli, D. Cruz-Gonzalez, P. Avila-Perez, **Laura Bulgariu**, M.H. Flaifel, F.M. Abouzeid, Modeling of the relationship between the thermodynamic parameters ΔH◦ and ΔS◦ with temperature in the removal of Pb ions in aqueous medium: Case study. Chemical Physics Letters, 814, (2023), 140329. *https://doi.org/10.1016/j.cplett.2023.140329*.
17. S. Praveen, J. Jegan, T.B. Pushpa, R. Gokulan, **Laura Bulgariu**, Biochar for removal of dyes in contaminated water: an overview, Biochar, 4, (2022), 10. *https://doi.org/10.1007/s42773-022-00131-8*.
18. I.Ahmad, U. Farwa, Z.U.Haq Khan, M. Imran, M. Shafique, K.B. Zhu, A. Rasool, G.M. Shah, M. Tahir, M. Ahmed, S. Rezapour, **Laura Bulgariu**, Biosorption and Health Risk Assessment of Arsenic Contaminated Water through Cotton Stalk Biochar, *Surfaces and Interfaces*, 29, (2022), 101806. *https://doi.org/10.1016/j.surfin.2022.101806*.
19. D.I. Ferţu, **Laura Bulgariu**, M. Gavrilescu, Modeling and Optimization of Heavy Metals Biosorption by Low-Cost Sorbents Using Response Surface Methodology, Processes, 10(3), (2022), 523; *https://doi.org/10.3390/pr10030523*.
20. D.I. Ferţu, E.N. Drăgoi, **Laura Bulgariu**, S. Curteanu, M. Gavrilescu, Modeling the Biosorption Process of Heavy Metal Ions on Soybean-Based Low-Cost Biosorbents Using Artificial Neural Networks, Processes, 10, (2022), 603; *https://doi.org/10.3390/pr10030603*.
21. E. Savastru, D. Bulgariu, C.I. Zamfir, **Laura Bulgariu**, Application of Saccharomyces cerevisiae in the Biosorption of Co(II), Zn(II) and Cu(II) Ions from Aqueous Media, Water, 14, (2022), 976. *https://doi.org/10.3390/w14060976*.
22. A. Soudani, L. Youcef, **Laura Bulgariu**, S. Youcef, K. Toumi, N. Soudani, Characterizing and modeling of Oak fruit shells biochar as an adsorbent for the removal of Cu, Cd, and Zn in single and in competitive systems, Chemical Engineering Research and Design, 188, (2022), 972-987. *https://doi.org/10.1016/j.cherd.2022.10.009*.
23. T. Arsenie, I.G. Cara, M.C. Popescu, I. Motrescu, **Laura Bulgariu**, Evaluation of the Adsorptive Performances of Rapeseed Waste in the Removal of Toxic Metal Ions in Aqueous Media, Water, 14(24), (2022), 4108. *https://doi.org/10.3390/w14244108*.
24. M. Keshavarz, R. Foroutan, F. Papari, **Laura Bulgariu**, H. Esmaeili, Synthesis of CaO/Fe2O3 nanocomposite as an efficient nanoadsorbent for the treatment of wastewater containing Cr(III), Separation Science and Technology, 56(8), (2021), 1328-1341. *https://doi.org/10.1080/01496395.2020.1778727*.
25. C.S.Ciobanu, R. Copae, D. Bulgariu, **Laura Bulgariu**, Comparative study of Pb(II) ions adsorption on PET fibers and flakes: isotherm, kinetic and mechanism considerations, Desalination and Water Treatment, 222, (2021), 375-385. doi: 10.5004/dwt.2021.27075.
26. I.G. Cara, M. Filip, **Laura Bulgariu**, L. Raus, D. Topa, G. Jităreanu, Environmental Remediation of Metribuzin Herbicide by Mesoporous Carbon - Rich from Wheat Straw, Applied Sciences, 11, (2021), 4935. *https://doi.org/10.3390/app11114935*.
27. S.S. Ali, H. Jiao, A.M. Mustafa, E. Koutra, S. El-Sapagh, M. Kornaros, T. Elsamahy, M. Khalil, **Laura Bulgariu**, J. Sun, Construction of a novel microbial consortium valued for the effective degradation and detoxification of creosote-treated sawdust along with enhanced methane production, Journal of Hazardous Materials, 418, (2021), ID. 126091, *https://doi.org/10.1016/j.jhazmat.2021.126091*.
28. V. Kumar, S.K. Shahi, L.F.R. Ferreira, M. Bilal, J.K. Biswas, **Laura Bulgariu**, Detection and characterization of refractory organic and inorganic pollutants discharged in biomethanated distillery effluent and their phytotoxicity, cytotoxicity, and genotoxicity assessment using Phaseolus aureus L. and Allium cepa L., Environmental Research, 201, (2021), 111551. *https://doi.org/10.1016/j.envres.2021.111551*.
29. A.R. Lucaci, D. Bulgariu, **Laura Bulgariu**, In Situ Functionalization of Iron Oxide Particles with Alginate: A Promising Biosorbent for Retention of Metal Ions, Polymers, 13, (2021), 3554. *https://doi.org/10.3390/polym13203554*.
30. **Laura Bulgariu**, D.I. Ferţu, I.G. Cara, M. Gavrilescu, Efficacy of Alkaline-Treated Soy Waste Biomass for the Removal of Heavy-Metal Ions and Opportunities for Their Recovery, Materials, 14, (2021), 7413. *https://doi.org/10.3390/ma14237413*.
31. A.R. Lucaci, D. Bulgariu, I. Ahmad, **Laura Bulgariu**, Equilibrium and Kinetics Studies of Metal Ions Biosorption on Alginate Extracted from Marine Red Algae Biomass (Callithamnion corymbosum sp.), Polymers, 12, (2020), 1888, doi: 10.3390/polym12091888.

32. O.I. Ungureanu, D. Bulgariu, A.M. Mocanu, **Laura Bulgariu**, Functionalized PET Waste Based Low-Cost Adsorbents for Adsorptive Removal of Cu(II) Ions from Aqueous Media, Water, 12, (2020), 2624, doi:10.3390/w12092624.
33. M.A. Naeem, M. Imran, M. Amjad, G. Abbas, M. Tahir, B. Murtaza, A. Zakir, M. Shahid, **Laura Bulgariu**, I. Ahmad, Batch and Column Scale Removal of Cadmium from Water Using Raw and Acid Activated Wheat Straw Biochar, Water, 11, (2019), 1438; doi:10.3390/w11071438.
34. A.R. Lucaci, D. Bulgariu, I. Ahmad, G. Lisă, A.M.Mocanu, **Laura Bulgariu**, Potential Use of Biochar from Various Waste Biomass as Biosorbent in Co(II) Removal Processes, Water, 11, (2019), 1565, doi:10.3390/w11081565.
35. M. Ghercă, D. Bulgariu, A.M. Mocanu, **Laura Bulgariu**, Green chemistry extraction method for recovery of gold ions from cyanide wastewaters, Environmental Engineering and Management Journal, 18(8), (2019), 1747-1754.
36. A.R. Lucaci, D. Bulgariu, M.C. Popescu, **Laura Bulgariu**, Adsorption of Cu(II) Ions on Adsorbent Materials Obtained from Marine Red Algae *Callithamnion corymbosum sp.*, Water, 12, (2020), 372, doi:10.3390/w12020372.
37. **Laura Bulgariu**, Efficient use of algae biomass loaded with essential metal ions in the manufacture of feed additives, Journal of Applied Phycology, 32, (2020), 1779-1788 *https://doi.org/10.1007/s10811-020-02115-2*.
38. B. Cojocariu, A.M. Mocanu, G. Nacu, **Laura Bulgariu**, Possible utilization of PET waste as adsorbent for Orange G dye removal from aqueous media, Desalination and Water Treatment, 104 (2018) 338–345. doi:10.5004/dwt.2018.21909.
39. **Laura Bulgariu**, D. Bulgariu, Functionalized soy waste biomass - A novel environmental-friendly biosorbent for the removal of heavy metals from aqueous solution, Journal of Cleaner Production, 197(1), (2018), 875-885. *https://doi.org/10.1016/j.jclepro.2018.06.261*
40. I.S. Bădescu, D. Bulgariu, I. Ahmad, **Laura Bulgariu**, Valorisation possibilities of exhausted biosorbents loaded with metal ions – A review, Journal of Environmental Management, 224 (2018), 288-297. *https://doi.org/10.1016/j.jenvman.2018.07.066*.
41. **Laura Bulgariu**, L.B. Escudero, O.S. Bello, M. Iqbal, J. Nisar, K.A. Adegoke, F. Alakhran, M. Kornaros, I. Anastopoulus, The utilization of leaf- based adsorbents for dyes removal: A review, Journal of Molecular Liquids, 276, (2019), 728-747. *https://doi.org/10.1016/j.molliq.2018.12.001*.
42. I.S. Bădescu, D. Bulgariu, **Laura Bulgariu**, Alternative utilization of algal biomass (*Ulva* sp.) loaded with Zn(II) ions for improving of soil quality, Journal of Applied Phycology, 29(2), (2017), 1069-1079. DOI: 10.1007/s10811-016-0997-y.
43. L. (Negrilă) Nemeş, **Laura Bulgariu**, Optimization of process parameters for heavy metals biosorption onto mustard waste biomass, Open Chemistry, 14, (2016), 175-187. *https://doi.org/10.1515/chem-2016-0019*.
44. M.Harja, G. Buema, **Laura Bulgariu**, D. Bulgariu, D.M. Sutiman, G. Ciobanu, Removal of cadmium(II) from aqueous solution onto modified algae and ash, The Korean Journal of Chemical Engineering, 32(9), (2015), 1804-1811. DOI: 10.1007/s11814-015-0016-z.
45. D. Bulgariu, **Laura Bulgariu**, Potential use of alkaline treated algae waste biomass as sustainable biosorbent for clean recovery of cadmium(II) from aqueous media: batch and column studies, Journal of Cleaner Production, 112, (2016), 4525-4533. https://doi.org/10.1016/j.jclepro.2015.05.124.
46. L. M. Doubova, S. Rondinini, A. Vertova, **Laura Bulgariu**, Studying electron transfer reaction at the Au/n-decanethiol/aqueous solution of NaNO3 interface by electrochemical impedance spectroscopy, Russian Journal of Electrochemistry, 49(1), (2013), 26-37.
47. G. Suditu, S. Curteanu, **Laura Bulgariu**, Neural networks-based modeling applied to a process of heavy metals removal from wastewaters, Journal of Environmental Science and Health, Part A, 48(11), (2013), 1399-1412.
48. **Laura Bulgariu**, D. Bulgariu, Selective extraction of Hg(II), Cd(II) and Zn(II) ions from aqueous media by a green chemistry procedure using aqueous two-phase systems, Separation and Purification Technology, 118, (2013), 209-216. *http://dx.doi.org/10.1016/j.seppur.2013.07.007*.
49. **Laura Bulgariu**, D. Bulgariu, Direct determination of nitrate in small volumes of natural surface waters using a simple spectrophotometric method, Reviews in Analytical Chemistry, 31(3-4), (2012), 201–207, DOI: 10.1515/revac-2012-0004, September 2012.
50. D. Bulgariu, **Laura Bulgariu**, Sorption of Pb(II) onto a mixture of algae waste biomass and anion exchanger resin in a packed-bed column, Bioresource Technology, 129, (2013), 374–380, *http://dx.doi.org/10.1016/j.biortech.2012.10.142*.

51. **Laura Bulgariu**, D. Bulgariu, M. Macoveanu, Adsorptive Performances of Alkaline Treated Peat for Heavy Metal Removal, Separation Science and Technology, 46(6), (2011), 1023 – 1033 (doi:10.1080/01496395.2010.536192).
52. **Laura Bulgariu**, D. Bulgariu, Extraction of gold(III) from chloride media in aqueous polyethylene glycol-based two-phase system, Separation and Purification Technology, 80(3), (2011), 620 – 625. *doi.org/10.1016/j.seppur.2011.06.018*.
53. **Laura Bulgariu,** D. Bulgariu. Extraction of metal ions in aqueous PEG-inorganic salt two phase systems in presence of inorganic extractants: correlation between extraction behaviour and stability constants of extracted species. Journal of Chromatography A., 1196-1197 (1-2), (2008), 117-124. *https://doi.org/10.1016/j.chroma.2008.03.054*.
54. J. Radecki, I. Szymanska, **Laura Bulgariu,** M. Pietraszkiewicz – Covalent and embedment immobilization of macrocyclic polyamines on gold electrodes and their voltammetric response towards ethene dicarboxylic acids, Electrochimica Acta, 51, (2006), 2289-2297. *https://doi.org/10.1016/j.electacta.2005.02.153*.
55. **Laura Bulgariu,** D. Bulgariu, I. Sârghie - Spectrophotometric determination of Cadmium (II) using p,p'-dinitro-sym-diphenylcarbazide in aqueous solutions, Analytical Letters, 38(14), (2005), 2365-2375. *https://doi.org/10.1080/00032710500316597*.
56. **Laura Bulgariu**, H. Radecka, M. Pietraszkiewicz, O. Pietraszkiewicz – Potentiometric response of Liquid Membrane Electrode Incorporated with Macrocyclic Polyamine Towards Benzoate, Analytical Letters 36(7), (2003), 1325-1334. *https://doi.org/10.1081/AL-120021089*.

- Articole publicate în volume indexate ISI Proceedings (selecţie)

57. E. Fasniuc-Pereu, A. Apostică, **Laura Bulgariu,** Desorpion of rifampicin from PET fibers, Proceedings of International Symposium "The environment and the industry", SIMI 2025. Pp. 93-95. DOI: http://doi.org/10.21698/simi.2025.ab39.
58. E. Fasniuc-Pereu, **Laura Bulgariu**, Retention of Rifaximin from Aqueous Solution by Adsorption on PET Fibers, Proceedings of The 12th International Conference on E-Health and Bioengineering - EHB 2024 Grigore T. Popa University of Medicine and Pharmacy Iasi, November 14-15, 2024, Iasi, Romania (2024 E-Health and Bioengineering Conference (EHB) | 979-8-3315-3214-7/24/©2024 IEEE) 979-8-3315-3214-7/24. *http://doi.org/10.1109/EHB64556.2024.10805586*.
59. L. Munteanu, G.A. Apostolescu, **Laura Bulgariu**, Modeling Phosphate Anions Biosorption by Green Marine Algae Biomass, Proceedings of The 12th International Conference on E-Health and Bioengineering - EHB 2024 Grigore T. Popa University of Medicine and Pharmacy Iasi, November 14-15, 2024, Iasi, Romania (2024 E-Health and Bioengineering Conference (EHB) | 979-8-3315-3214-7/24/©2024 IEEE) 979-8-3315-3214-7/24. DOI: *http://doi.org/10.1109/EHB64556.2024.10805726*.
60. L. Munteanu, A.M. Mocanu, I.G. Cara, **Laura Bulgariu**, Effect of Biosorbent Dose in the Removal of Phosphate on Marine Algae Biomass, EHB 2023, IFMBE Proceedings 111, pp. 199–207, (2024). *https://doi.org/10.1007/978-3-031-62523-7_22*.
61. A.A. Ciobanu, A. Ilău, G. Lisă, **Laura Bulgariu**, Effect of Pyrolysis Temperature on Characteristics of Biochars Derived from Marine Algae Biomass (Ulva Lactuca), EHB 2023, IFMBE Proceedings 111, pp. 225–233, (2024). *https://doi.org/10.1007/978-3-031-62523-7_25*.
62. A.G. Apostică, **Laura Bulgariu**, Utilization of Marine Algae Biomass for Eco-Friendly Obtaining of Gold Nanoparticles, EHB 2023, IFMBE Proceedings 111, pp. 234–241, (2024). *https://doi.org/10.1007/978-3-031-62523-7_26*.
63. L. Munteanu, A.M. Mocanu, I.G. Cara, **Laura Bulgariu**. Effect of Biosorbent Dose in the Removal of Phosphate on Marine Algae Biomass. The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023 Grigore T. Popa University of Medicine and Pharmacy, Bucharest, Romania, November 9-10, 2023.
64. A.G. Apostică, **Laura Bulgariu**.Utilization of Marine Algae Biomass for EcofrielndIy Obtaining of Gold Nanoparticles. The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023 Grigore T. Popa University of Medicine and Pharmacy, Bucharest, Romania, November 9-10, 2023.
65. A.A. Ciobanu, A. Ilău, G. Lisă, **Laura Bulgariu**. Effect of Pyrolysis Temperature on Characteristics of Biochars Derived from Marine Algae Biomass (Ulva lactuca). The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023 Grigore T. Popa University of Medicine and Pharmacy, Bucharest, Romania, November 9-10, 2023.
66. B.E. Azanfire, D. Bulgariu, **Laura Bulgariu**, S.C. Ciobanu, Isotherm and Kinetic Modeling of Cd(II) Ions Adsorption from Aqueous Solutions on PET-Clay Adsorbent Materials, Proceedings

of 4th Euro-Mediterranean Conference for Environmental Integration (EMCEI-4), Tunisia 2022, 2024, pp. 181-184. *https://doi.org/10.1007/978-3-031-51904-8_42*. in M. Ksibi et al. (eds.), in Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (4th Edition), Advances in Science, Technology & Innovation, Springer Nature Switzerland, ISBN 978-3-031-51903-1, *https://doi.org/10.1007/978-3-031-51904-8*.

67. A.A. Ciobanu, L. Munteanu, D. Bulgariu, G. Vasile, **Laura Bulgariu**, Equilibrium and Kinetic Study of Cu(II) Ions Biosorption on Biochars Obtained from Marine Algae Biomass, Proceedings of 4th Euro-Mediterranean Conference for Environmental Integration (EMCEI-4), Tunisia 2022, 2024, pp. 301-304. *https://doi.org/10.1007/978-3-031-51904-8_68*. in M. Ksibi et al. (eds.), in Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (4th Edition), Advances in Science, Technology & Innovation, Springer Nature Switzerland, ISBN 978-3-031-51903-1, *https://doi.org/10.1007/978-3-031-51904-8*.
68. A.R. Lucaci, D. Bulgariu, **Laura Bulgariu**, Green Synthesis of Gold Nanoparticles Using Marine Red Algae Biomass, The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021 Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021. DOI: *10.1109/EHB52898.2021.9657628*
69. B. Azanfire, **Laura Bulgariu**, Thermodynamic Studies of Pb(II) Ions Adsorption From Aqueous Solutions on Clay Adsorbent, The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021 Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021. DOI: *10.1109/EHB52898.2021.9657748*.
70. B. Azanfire, C.Ş. Ciobanu, D. Bulgariu, **Laura Bulgariu**, Isotherm and Kinetic Modeling of Hg(II) Ions Adsorption on PET-clay Adsorbent Materials, The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022 Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 17-18, 2022. DOI: *10.1109/EHB55594.2022.9991305*.
71. A.A. Ciobanu, A. Soudani, L. Youcef, **Laura Bulgariu**, Optimization of Experimental Parameters for Co(II) Ions Biosorption onto Algae Biochars, The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022 Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 17-18, 2022. DOI: 10.1109/EHB55594.2022.9991498.
72. V.P. Livinţ, A.E. Bulgariu, A.M. Mocanu, **Laura Bulgariu**, Retention of Hydrocortisone from Aqueous Solution by Adsorption on PET Fibers, The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022 Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania, November 17-18, 2022. DOI: 10.1109/EHB55594.2022.999168.
73. **Laura Bulgariu**, I.S.Bădescu, D. Bulgariu, G. Nacu, Lead ions adsorption from industrial wastewater using activated carbon prepared from marine green algae biomass, Proceedings of the 19th International Multidisciplinary Scientific Conference SGEM 2019, volume 19, issue 1.4, 213-220.
74. A.R. Lucaci, I.S. Bădescu, **Laura Bulgariu**, Comparative Study of Cu(II) Ions Removal Using Red and Green Marine Algae Biomass as Biosorbents, The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021 Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021. DOI: *10.1109/EHB52898.2021.9657574*

- Articole indexate în baze de date internaţionale (selecţie)

75. B.M. Hăisan, A.G. Apostică, **Laura Bulgariu**, Quantitative spectrophotometric determination of Au(III) ions in aqueous solution with Basic Violet 10 dye, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 70(74), no.1, (2024), 23-34. DOI: 10.5281/zenodo.11145069.
76. E. Fasniuc-Pereu, A.E. Bulgariu, **Laura Bulgariu**, Spectrophotometric characteristics of rifaximin aqueous solution and the consequences for quantitative analysis, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 70(74), no.2, (2024), 65-76. DOI: 10.5281/zenodo.13308277.
77. B.M. Hăisan, L. Munteanu, D. Bulgariu, R.E. Tătaru-Fărmuş, **Laura Bulgariu**, Effect of inorganic salts on the solubilization of phosphorus from chemical fertilizers, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 70(74), no.4, (2024), 21-32. DOI: 10.5281/zenodo.14582031.
78. A.A. Ciobanu, L. Munteanu, G. Vasile, **Laura Bulgariu**, Evaluation of the biosorption performance of marine green algae biomass (Ulva lactuca sp.) in the removal of inorganic pollutants, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 69(73), no.1, (2023), 93-104. DOI: 10.5281/zenodo.7767225.

79. M. Minuț, I.C. Vasilachi, M. Roșca, E.D. Comăniță-Ungureanu, **Laura Bulgariu**, M. Diaconu, P. Cozma, M. Gavrilescu, Phytomining and its role in improving soil quality and recovering some critical raw materials, Annals of the Academy of Romanian Scientists, Series on Physics and Chemistry, 8(2), (2023), 62-89. DOI *https://doi.org/10.56082/annalsarsciphyschem.2023.2.62*.
80. I.D. Tanasă, A.E. Bulgariu, C. Siriţeanu, **Laura Bulgariu**, Spectrophotometric determination of rifampicin in aqueous solution, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 68(72), no.3, (2022), 25-34.
81. B. Azanfire, **Laura Bulgariu**, Optimization of process parameters for retention of Cd(II) ions adsorption from aqueous solutions on clay materials, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 68(72), no.4, (2022), 21-30. DOI: 10.5281/zenodo.7539797.
82. C.S. Ciobanu, D. Bulgariu, B. Azanfire, **Laura Bulgariu**, Obtaining PET-clay adsorbent materials and their use for the removal of Pb(II) ions from aqueous media, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 67(71), no.3, (2021), 29-38.
83. A.R. Lucaci, **Laura Bulgariu**, A comparative study of Zn(II) ions biosorption from aqueous solution on red marine algae biomass and alginate, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 66(70), no.2, (2020), 43-52.
84. L. Anechitei, T. Cojocaru, I.G. Munteanu, **Laura Bulgariu**, Simple methods for quantitative determination of sulphate ion from aqueous media with industrial applications, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 65(69), no.3, (2019), 27-37.
85. G.T. Dogaru, E. Filipov, I. Văileanu, **Laura Bulgariu**, Simple and rapid spectrophotometric determination of Au(III) ions using Rhodamine B as colour reagent, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 65(69), no.1, (2019), 45-55.
86. A.R. Lucaci, **Laura Bulgariu**, Rapid and simple method for the preparation of iron nanoparticles functionalized with alginate and their use as adsorbent. The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 65(69), no.2, (2019), 55-64.
87. A.R. Lucaci, **Laura Bulgariu**, Comparative study of alginate extraction methods from red marine algae *Callithamnion Corymbosum Sp*., The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 64(68), no.1, (2018), 51-60.
88. O.I. Ungureanu, A.M. Mocanu, **Laura Bulgariu**, Simple Functionalization Methods of PET Waste Using Phenolic Compounds, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 64(68), no.2, (2018), 9-19.
89. A.G. Apostică, T. Ichim, V.M. Radu, **Laura Bulgariu**, Simple and rapid spectrophotometric method for phenol determination in aqueous media, The Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 64(68), no.3, (2018), 9-18.
90. A.R. Lucaci, I.S. Bădescu, **Laura Bulgariu**, Optimization of biosorption parameters for Cu(II) ions removal by red and green marine algae biomass, Scientific Papers Journal, Horticulture Series, 61(2), (2018), 329-334.
91. G. Nacu, L. Nemeş, A.M. Mocanu, **Laura Bulgariu**, Removal efficiency of Zn(II) ions from aqueous effluents on different types of waste biomass, Scientific Papers Journal, Horticulture Series, 61(2), (2018), 335-340.
92. O.I. Ungureanu, **Laura Bulgariu**, Functionalization of PET waste using phenolic compounds, Annals of the Academy of Romanian Scientists, Physics and Chemistry Sciences, 3(2), (2018), 27-36.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. T. (Ionel) Arsenie, **Laura Bulgariu**, Rapid and efficient removal of Pb(II) ions from aqueous media using low quality rapeseeds biomass as biosorbent, Process Engineering Journal, 1, (2017), 34-40.
2. C.D. Radu, O. Parteni, M. Popa, I.E. Mureşan, L. Ochiuz, **Laura Bulgariu**, C. Munteanu, B. Istrate, E. Ulea, Comparative Study of a Drug Release from a Textile to Skin, Journal of Pharmaceutics & Drug Delivery Research, (2015), 4:2 *http://dx.doi.org/10.4172/2325-9604.1000134*

3. **Laura Bulgariu**, D. Bulgariu, Enhancing Biosorption Characteristics of Marine Green Algae (Ulva lactuca) for Heavy Metals Removal by Alkaline Treatment, Journal of Bioprocess and Biotechnique, (2014), 4(1), *http://dx.doi.org/10.4172/2155-9821.1000146.*

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS (selecţie).

1. **Laura Bulgariu**, D.I. Tudorache Fertu, M. Gavrilescu, Sustainable use of biomass for cleaning-up aqueous effluents contaminated with heavy metals, Annals of the Academy of Romanian Scientists series on Chemistry Science, 1(1), (2014), 5-18.
2. Camelia Ciubotă-Roşie, **Laura Bulgariu**, Cezar Catrinescu, Irina Volf, Matei Macoveanu, Study of biodiesel obtained through valorification of biomass, Bull I. P. Iasi, Tomul LVI (LX), Fasciculele 3a şi 3b, secţia Construcţii de maşini, 2010, p. 371 – 380. – revista de categorie B.
3. **Laura Bulgariu**, D. Bulgariu, Selective extraction of Fe(III) species in presence of thiocyanate ions using aqueous PEG-based two-phase systems. Analele Universităţii din Oradea-fascicula Chimie, Vol.XVII, (2010), 3-10.
4. I. Sarghie, **Laura Bulgariu**, Kinetics of nickel extraction with 8-hydroxyquinoline in carbon tetrachloride. ACTA CHEMICA IASI, 17, (2009), 97-106.
5. D. Bulgariu, **Laura Bulgariu**, F. Filipov, Effects of Heavy metals on Chemical equilibriums from antropic Soil. Studia Universitatis Babeş-Bolyai Ambientum, vol LIII (1-2), (2008), 23-32.
6. L.Tofan, C. Păduraru, **Laura Bulgariu,** Investigations on the Usefulness of Thermal Power Plants Ash for Lead Adsorption. Chemical Bulletin “POLITEHNICA" Univ. (Timişoara) Volume 53(67), 1-2, (2008), 188-191.
7. M. Răţoi, **Laura Bulgariu**, M. Macoveanu, Removal of Lead from Aqueous Solutions by Adsorption Using Sphagnum Moss Peat. Chem. Bull. "POLITEHNICA" Univ. (Timişoara) Volume 53(67), 1-2, (2008), 183-187.
8. **Laura Bulgariu**, Bulgariu D. (2008). Use PEG-based aqueous two-phase systems for selective extraction of Zn(II) from cobalt, nickel, iron (III) and lead. Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, Tom LIV, facicula 1, p.7-16.
9. **Laura Bulgariu**, D. Bulgariu (2008). Bi(III) extraction in aqueous PEG-based two-phase systems in presence of inorganic extractants. II. Analysis of PEG-rich solid phases. Anal. Univ. Oradea-fascicula Chimie Vol. XV, 2008, 6-12.
10. Mioara Ratoi, **Laura Bulgariu**, Matei Macoveanu Increasing the sorption capacity of sphagnum moss peat for lead ions by a simple chemical treatment. Anal. Univ. Oradea-fascicula Chimie Vol. XV, (2008), 179-185.
11. **Laura Bulgariu**, D. Bulgariu, Self-Assembled Monolayer of Thiols on Gold Electrodes Prepared by Gold Electro-chemical Deposition on Platinum Wire. Chem. Bull. "POLITEHNICA" Univ. (Timişoara) Volume 53(67), 1-2, (2008), 163-167.
12. M. Răţoi, **Laura Bulgariu**, M. Macoveanu, Removal of Lead from Aqueous Solutions by Adsorption Using Sphagnum Moss Peat. Chem. Bull. "POLITEHNICA" Univ. (Timişoara) Volume 53(67), 1-2, (2008), 183-187.

I. Lucrări ştiinţifice publicate în volumele conferinţelor (selecţie).

1. D.Bulgariu, R. Bălteanu, **Laura Bulgariu,** Separarea prin electrodepunere a componentelor utile din steril minier de flotaţie, Proceedings of EUROINVENT International Workshop 2025, 17th edition, Scientific, Technological and Innovative Research in Current European Context, 8 May 2025, pp. 49-64. ISSN 2668-3229.
2. D.Bulgariu, **Laura Bulgariu**, D. Aştefanei, R. Szep, Preliminary analytical considerations on the determination of total nitrogen in anthropically-disturbed soils, Proceedings of International Scientific Symposium GEO-IAȘI 2025, October 24-26 – Iași, Romania, Ed. Universităţii Al.I. Cuza, Iaşi, pp.28-31.
3. D.Bulgariu, **Laura Bulgariu**, Reținerea Cu(II) și Ni(II) pe biomasă de muştar (partea I), Proceedings of EUROINVENT International Workshop, 15th edition, Scientific Inquiries through Elective Elaborations, 12 May 2023, pp. 187-224. ISSN 2668-3229.
4. I.S. Bădescu, A.A. Ciobanu, D. Bulgariu, **Laura Bulgariu**, Equilibrium and kinetic study of Zn(II) ions biosorption on algae biomass and derived biochar, Proceedings of EsiTechni International Conference on Sustainable Future and Environmental Science 2021, 11 December 2021 (on line), TechHub Journal 1(2), (2021), 6-14.
5. B. Azanfire, D. Bulgariu, L. Nemeş, **Laura Bulgariu**, Optimization of experimental parameters for retention of Pb(II) ions from aqueous solution on clay adsorbent, Proceedings of Tehnicum International Conference, 2, (2020), 38-47.

6. Arsenie T.D., Nemeş L., Bulgariu D., Bădescu I.S., **Laura Bulgariu**, Alternative use of biomass waste from biofuels production as biosorbents for Pb(II) removal from aqueous effluents, Proceeding of the 7th International Symposium of Energy from Biomass and Waste, Venice, Italy, 15-18 October 2018, Proceedings VENICE2018. 2018 CISA Publisher. www.cisapublisher.com.
7. **Laura Bulgariu**, D. Bulgariu, Utilization of aqueous PEG-based two phase systems for the selective extraction of Zn(II), Co(II) and Ni(II) from aqueous solution: A green Chemistry method, Proceedings of the 6th Edition of EUROINVENT – European Exhibition of Creativity and Innovation, 22-24 May 2014, Alexandru Ioan Cuza Publish House, Iaşi, 2014, p. 471-478.
8. G. Moroi, E. Avram, **Laura Bulgariu**, *Retention de metaux lourds par des copolymers styreniques functionnalises avec des groupements N-methylimidazolium*, Proceedings of the Xeme Colloque Franco-Roumain sur les Polymeres, Polymeres et Materiaux Advanced: Development Durable et Performances, Douai, France, 6-8 Septembre 2011, p. 222 – 224.

J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract (selecţie)

1. Contract nr. 4262/13.02.2023, finantat de SC ELECTRA SRL, cu tema: Analize fizico-chimice pentru probe de pe amplasament. Director de conctract: **Prof.dr.habil.chim. Laura Bulgariu.**
2. Contract nr. 33952/21.09.2022, finantat de S.C. INCINER WASTE RECYCLE S.R.L., cu tema: Determinarea unor parametrii de calitate pentru deşeuri solide şi lichide. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
3. Grant GI/P3/2021 (Granturi Interne – Publicaţii), finanţat de Universitatea Tehnică Gheorghe Asachi din Iaşi, cu tema: Publicaţii. Director de proiect: **Prof.dr.habil.chim. Laura Bulgariu.**
4. Contract nr. 25934/08.09.2021, finantat de S.C. TECHNOSTEEL LBR S.R.L., cu tema: Determinarea unor parametrii de calitate pentru deşeuri de nămol. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
5. Contract nr. 19348/06.07.2021, finantat de SC AGRI PE SRL, cu tema: Analize fizico-chimice pentru probe de sol de pe amplasamentul unităţii. Director de conctract: **Prof.dr.habil.chim. Laura Bulgariu.**
6. Contract nr. 23802/16.11.2020 (1/10.11.2020), finantat de S.C. BAUTECH BETON S.R.L., cu tema: Analize fizico-chimice pentru probe de calcar şi borax. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
7. Contract nr. 22448/30.10.2020 (348/19.10.2020), finantat de S.C. RAVAL COM S.R.L., cu tema: Analize fizico-chimice pentru peleţi combustibili obţinuţi din deşeuri de biomasă. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
8. Contract nr. 1/10.01.2020, finantat de Primăria Comunei Vlădeni, cu tema: Determinarea puterii calorice a unei probe de stuf. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
9. Contract nr. 8616/23.04.2019, finanţat de SC Fertisol SRL, cu tema: Analize fizico-chimice pentru testarea calităţii unor probe de turba. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
10. Contract nr. 7491/09.04.2019, finanţat de SC PHASELIS EXIMP SRL, cu tema: Analize fizico-chimice pentru probe de emulsii. Director de conctract: **Prof. dr.habil.chim. Laura Bulgariu.**
11. Grant PN-III-P4-ID-PCE-2016-0500, finantat de Ministerul Cercetarii, cu tema: Valorificarea deseurilor de biomasa din productia de biocombustibili in procesele de biosorbtie a metalelor grele cu aplicatii in bioremedierea mediului. Director de proiect: **Conf.dr.habil.chim. Laura Bulgariu**.
12. Contract nr. 5P / 05.01.2015, finanţat de SC PCB-ELECTRA SRL Iaşi, cu tema: Analize fizico-chimice pentru probe de apă, aer şi aliaj. Director de conctract: **Conf. dr. chim. Laura Bulgariu.**
13. Contract nr. 1882P/08.12.2014, finanţat de SC STOM TRANS SRL Adjud, cu tema: Determinarea conţinutului de produse petroliere din probe solide. Director de conctract: **Conf. dr.habil.chim. Laura Bulgariu.**
14. Contract nr 109P (3851)/31.01.2013, finanţat de SC Salubris SA Iaşi, cu tema: Analize chimice pentru probe de levigat, apă de suprafaţă (Vămăşoaia), apă de foraje şi aer de la depozitul Tomeşti – semestrial, şi probe de aer de la Depozitul ecologic Ţuţora – lunar. Director de conctract: **sef lucr. dr. chim. Laura Bulgariu.**

Membru în colectiv (selecţie)

1. Grant ERASMUS-EDU-2022-EUR-UNIV, ID 101090042-INGENIUM, cu tema: INGENIUL Alliance of European Universities, WP6. Director de proiect: Prof.univ.dr.ing. Irina Lungu (2022-2025). Valoare: 2023 – 33072 lei + 2024 – 33072 lei. Membru in echipa – Expert WP6 – Ingenium for Research/COR 235104.
2. Grant PN III 269 PED/2020**,** finantat de Ministerul Cercetarii, cu tema: Integrarea Bioremedierii Mediului cu Valorificarea Biomasei si Recuperarea Unor Materii Prime Critice Prin Phytomining", Director proiect prof.dr.ing. Maria Gavrilescu, membru în echipă (12 membrii).
3. Grant PN-III-P4-ID-PCE-2016-0683, finantat de Ministerul Cercetarii, cu tema: Explorarea si exploatarea abilitatilor microorganismelor si plantelor si a interactiunilor dintre acestea pentru bioremedierea mediului. Director de proiect: prof. dr. ing. Maria Gavrilescu, membru în echipă (13 membrii).
4. Grant PN-II-ID-PCE-2011-3-0559 contract 265/5.10.2011 finantat de Ministerul Educaţiei, Cercetarii, Tineretului si Sportului, cu tema: „Biosorption and bioaccumulation in the bioremediation of environmental compartiments contaminated with persistent pollutants (BIOSACC)". Director de proiect: prof. dr. ing. Maria Gavrilescu, membru în echipă (10 membrii).
5. Grant PC PNCDI 51045 / 2007, cu tema: „*Exploatarea durabilă a resurselor de sol din spaţii protejate prin implementarea tehnologiilor ecologice şi dezvoltarea unor metode de monitorizare şi analiză compatibile cu standardele uniunii europene*". Director de grant: Conf. Dr. Ing. Feodor Filipov, membru în echipă.
6. Grant CEEX 5933/2006 – „*Depoluarea apelor poluate accidental cu produse petroliere şi ioni de metale grele utilizând sorbenţi neconvenţionali naturali şi sintetici*" Director de grant: Prof. dr. ing. Matei Macoveanu, membru în echipă.
7. Grant nr.161 / 41139 (2002-2003) finanţat de Banca Mondială, cu tema: „*Geochimia alterării mineralelor în condiţii supergene. Dinamica globală a sistemelor mineral / soluţie*". Director de grant: conf. univ. dr. Stumbea Dan Vasile, membru în echipă.

L. Premii, distincţii (selecţie).

1. **Premiul II şi Medalie de argint,** obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 2025, pentru lucrarea: Separation by electrodeposition of valuable components from flotation tailings – Dumitru Bulgariu, Laura Bulgariu.
2. **2024-2023 Top Reviewer Award 2024-2023**, from Chemical Engineering Research & Design (16 august 2024) – Prof.dr. Laura Bulgariu.
3. **2023 Excellent Editorial Board Member Award**, from Critical Reviews in Environmental Science and Technology (21 martie 2023) – Dr. Laura Bulgariu.
4. **Premiul I şi Medalie de aur,** obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 26-27 mai 2022, pentru lucrarea: Explorarea şi exploatarea abilităţilor microorganismelor, plantelor şi a interacţiunilor dintre acestea pentru bioremedierea mediului – authori: M. Gavrilescu, M. Diaconu, **Laura Bulgariu**, I. Volf, C. Catrinescu, C. Smaranda, P. Cozma, R.M. Hlihor, C. Ghinea, L.C. Apostol, E.D. Comăniţă, M. Roşca, S.I. Vasilică.
5. **Best Research Paper Award**, obţinută în cadrul TFH Outstanding Research Awards Series 2020 (16 noiembrie 2020), pentru lucrarea: Optimization of experimental parameters for retention of Pb(II) ions from aqueous solution on clay adsorbent – authors: Bianca Azanfire, Dumitru Bulgariu, Lăcrămioara Nemeş, Laura Bulgariu.
6. **Premiul I şi Medalie de aur,** obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 16-18 Mai 2019, pentru lucrarea: Ecological recovery of gold ions from industrial wastewater – Laura Bulgariu, Mădălina Ghercă, Alina Roxana Lucaci, Anca Mihaela Mocanu, Dumitru Bulgariu.
7. **Premiul I şi Medalie de aur,** obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 16-18 Mai 2018, pentru lucrarea: A new ecological biosorbent based on waste biomass with applications in environmental remediation – Laura Bulgariu, Lăcrămioara Nemeş (Negrilă), Anca Mihaela Mocanu, Dumitru Bulgariu, Diana Felcia Loghin.
8. **Premiul I şi Medalie de aur,** obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 22-24 Mai 2017, pentru lucrarea: Functionalized PET recycled fibers with organic dyes as adsorbent for the removal of metal ions from aqueous media – autori: A.M. Mocanu, B. Cojocariu, G. Lisă, D. Bulgariu, M. Zamfir, Laura Bulgariu.

9. **Premiul I şi Medalie de aur**, obtinuta la European Exhibition of Creativity and Innovation EUROINVENT, 22-24 Mai 2014, pentru lucrarea: Valorisation of biodiesel production waste in heavy metals biosorption processes – autori: Laura Bulgariu, D. Bulgariu
10. **Diploma of Excellence** şi **Medalia de aur,** obtinuta la European Exhibition of Creativity and Innovation EUROInvent, Mai 2012, pentru lucrarea: Enhancing of biosorptive performances of algae biomass for heavy metals by alkaline treatment – autori: Laura Bulgariu, M. Lupea, D. Bulgariu, M. Macoveanu.
11. **Diplomă de Excelenţă** şi **Medalia de aur**, acordată de Societatea Inventatorilor din România, la Salonul Internaţional Jubiliar al Cercetării, Invenţiilor şi Transferului Tehnologic, din 14-24 mai 2008, pentru lucrările: „*Simple chemical treatments for the increasing of shagnum moss peat efficiency for sorption of Pb(II)*" şi „*Peat-based sorbent applied for combating oil spill pollution*".
12. Premiul „**LUDOVIC MRAZEC**" al **Academiei Române** pe anul 2005 (acordat în 2007) in domeniul **Stiintelor Geonomice** pentru lucrarea „*Procesul de zeolitizare a tufurilor vulcanice din România. Vol. II – Modelarea teoretică şi experimentală a procesului de zeolitizare.*

M. Alte realizări semnificative.

Data,
4.10.2026

Semnătură,

LISTA DE LUCRĂRI – Prof.univ.habil.dr.ing. Carmen ZAHARIA

Cărţi publicate:

► În **editură** recunoscută **CNCS**: **21** (**14** prim/singur autor, **4** editor),

1. Zaharia C., *Innovative wastewater treatment technologies: opportunities, perspectives and challenges*, 288 pag., Ed. Ecozone, Iasi, ISBN 978-606-8625-39-3, **2023**

2. Zaharia C., *Sustainable Energy Production. Course notes and laboratory works*, 322 pag., Ed. Performantica, Iaşi, ISBN 978-606-685-630-0 (lb. engleza), **2019**

3. Zaharia C., *Politici și instrumente legislative în domeniul deșeurilor – note de curs și aplicații*, 228 pag., Ed. Performantica, Iaşi, ISBN 978-606-685-630-0, **2018**

4. Zaharia C. (Editor), *Current topics, concepts and research priorities in environmental chemistry* (IV), Vol.IV (lb. engleza), 262 pag., Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-606-714-207-5, vol. IV, **2015**

5. Zaharia C., *Elemente de chimia solului*, Ed. Performantica, Iaşi, 258 pag., ISBN 978-606-685-317-0, **2015**

6. Zaharia C. (Editor), *Current topics, concepts and research priorities in environmental chemistry* (III), Vol.III (lb. engleză), 316 pag., Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-606-714-062-0 vol.III, **2014**

7. Musteret C., Fighir D., Gavrilescu D., **Zaharia C**., Teodosiu C., *Tratarea si epurarea apelor: aplicatii practice*, 250 pag. Ed. Politehnium, Iasi, ISBN 978-973-621-442-4, **2014**

8. Zaharia C., *Chimia Mediului - teste de laborator si probleme*, 252 pag. Ed. Performantica, Iasi, ISBN 978-606-685-148-0, **2014**

9. Zaharia C. (Editor), *Current topics, concepts and research priorities in environmental chemistry* (II), Vol.II (lb. engleză), 296 pag., Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-703-939-2 vol. II, **2013**

10. Zaharia C. (Editor), *Current topics, concepts and research priorities in environmental chemistry (I),* Vol.I (lb. engleza), 398 pag., Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-403-798-5 vol. I, **2012**

11. Zaharia C., *Elemente de chimia mediului acvatic*, 248 pag., Ed. Performantica, Iasi, ISBN 978-973-730-902-0, **2011**

12. Zaharia C., *Elemente de chimia atmosferei*, 216 pag., Ed. Performantica, Iasi, ISBN 978-973-730-770-5, **2010**

13. Zaharia C., *Protecţia juridică a mediului*, 318 pag. Ed. Ecozone, Iasi, ISBN 978-973-764-554-8, **2008**

14. Zaharia C., *Legislatia privind protectia mediului*, 240 pag. Ed. Politehnium, Iasi, ISBN 978-973-621-219-2, **2008**

15. Zaharia C., *Energia si mediul*, ed. II-a, 152 pag. Ed. Ecozone, Iasi, ISBN (10) 973-7645-24-3; (13) 978-973-764-524-1, **2006**

16. Surpăţeanu M., Găburici M., **Zaharia C**., Surpăţeanu G.G., *Chimia mediului. Probleme*, 152 pag. Ed.Performantica, Iaşi, ISBN 973-730-194-3/978-973-730-194-9, **2006**

17. Zaharia C., *Epurarea chimică a apelor uzate*, 168 pag. Ed.Performantica, Iasi, ISBN 973-730-222-2 / 978-973-730-222-9, **2006**

18. Zaharia C., *Protectia juridica a mediului*, 294 pag.. Ed.Ecozone, Iasi, ISBN 973-7645-03-0, **2005**

19. Zaharia C., *Energia si mediul*, 196 pag. Editura Universitatii „Al.I.Cuza", Iasi, ISBN 973-703-009-5, **2004**

20. Zaharia C., *Legislaţia pentru protecţia mediului*, 206 pag. Ed. Universităţii „Al.I.Cuza", Iasi, ISBN 973-824-376-9, **2003**

21. Surpăţeanu M., **Zaharia C**., *ABC – Metode de analiză a calităţii factorilor de mediu*, 200 pag., Ed. T, Iaşi, ISBN 973-998-244-1, **2002**

► **Pe plan local**: **6** (5 prim/singur autor)

1. Zaharia C., *Chimia Mediului: Teste de control în laborator și probleme* (I), vol. I, 74 pagini format A4, academic 74 x 45/30 = 111 pagini, e-manual (format pdf pe site-ul UTIaşi - Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului), **2013-2014,** http://www12.tuiasi.ro/facultati/hidro/index.php?page=806 sau https://www.scribd.com/document/421560205/Chimia-Mediului-aplicatii-2013-2014-pdf)

2. Zaharia C., *Chimia Mediului: Teste de control în laborator și probleme* (II), vol. II, 77 pagini format A4 (academic 77 x 45/30 = 115 pagini, e-manual (format pdf pe site-ul UTIaşi - Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului), **2013-2014,** http://www12.tuiasi.ro/facultati/hidro/index.php?page=806 sau https://www.scribd.com/document/421560205/Chimia-Mediului-aplicatii-2013-2014-pdf)

3. Zaharia C., *„Protectia juridică a mediului",* Manual format IDD, Editat de Departamentul de Învăţământ la Distanţă InterMediu, Universitatea Tehnică "Gh. Asachi" Iaşi, 147 pag., 2004-2005 şi 143 p., 2003-2004

4. Zaharia C., *„Energia şi mediul",* Manual format IDD, Editat de Departamentul de Învăţământ la Distanţă InterMediu, Universitatea Tehnică "Gh. Asachi" Iaşi, 121 pag., 2003-2004 şi 135 pag., 2001

5. Zaharia C., „*Legislatia mediului"*, vol. III, Manual format IDD, Editat de Departamentul de Învăţământ la Distanţă InterMediu, Universitatea Tehnică "Gh. Asachi" Iaşi- Centrul IDESC, Universitatea "Al. I. Cuza", Iaşi, 126 pag., 2002-2003 şi 126 pag., 2001

6. Surpăţeanu M., **Zaharia C**., *Chimia mediului. Manual de lucrări practice*, Ed.Rotaprint a Universității Tehnice "Gheorghe Asachi" din Iași, 142 pag., **1999**

Capitole de carte:

► *În **străinătate***: **3** (1 prim/singur autor)

1. D.Suteu, **C.Zaharia**, Th.Malutan – *Biosorbents based on lignin used in biosorption processes from wastewater treatment. A review*", Chapter 8, in: *Lignin – Properties and Applications for Biotechnology and Bioenergy*, Ryan J. Paterson (Ed.), pp. 279-306, ISBN 978-1-61122-907-3, Nova Science Publishers, Inc., New York, **2012**

2. D.Suteu, **C.Zaharia** - *Removal of Methylene Blue dye from aqueous media by sorption onto industrial lignin as sorbent*, Chapter 18, in: *Lignin - Properties and Applications for Biotechnology and Bioenergy*, Ryan J. Paterson (Ed.), pp. 477-488, ISBN 978-1-61122-907-3, Nova Science Publishers, Inc., New York, **2012**

3. C.Zaharia, D.Suteu – *Textile organic dyes – characteristics, polluting effects, and separation/elimination procedures from industrial effluents. A critical overview*, Chapter 3, in: *Organic pollutants - Ten Years After the Stockholm Convention – Environmental and Analytical Update*, pp.55-86, ISBN 978-953-307-924-0, Intech Publisher, Rijeka **2012**

► *În **țară**, editură recunoscută **CNCS** (în lb. engleză):* **12** (7 prim/singur autor)

1. C.Zaharia, *Marine costal area of Black Sea (Romania): characterisation, pollution status and its potential environmental risks and impact*, Chapter 10, p. 227-250. In: Current topics, concepts and research priorities in environmental chemistry (IV), Vol.IV, C.Zaharia (Editor), Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-606-714-207-5 vol. IV, **2015**

2. C.Zaharia, M.Diaconu, *Natural water sediments: characterisation, advanced analysis, pollution status and risks*, Chapter 9, p.167-194. In: Current topics, concepts and research priorities in environmental chemistry (IV), Vol.IV, C. Zaharia (Editor), Ed. Universităţii Al.I. Cuza, Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-606-714-207-5 vol. IV, **2015**

3. V.D.Diaconescu, R.Diaconescu, **C.Zaharia**, C.Loghin, *Modern sensors for monitoring of water quality*, Chapter 7, p. 135-166. In: Current topics, concepts and research priorities in environmental chemistry (IV), Vol.IV, C.Zaharia (Editor), Ed. Universităţii Al.I.Cuza, Iasi, ISBN978-973-703-797-8 general, ISBN978-973-606-714-207-5 vol IV, **2015**

4. C.Zaharia, *Assessment of exhaust gases emitted from on-road motor vehicles and local fuel stations: a Romanian city case study*, Chapter 13, p. 275-304. In: Current topics, concepts and research priorities in environmental chemistry (III), Vol. III, C.Zaharia (Editor), Ed. Universitatii Al.I.Cuza din Iasi, ISBN 978-606-714-062-0 vol.III, **2014**

5. C.Zaharia, *Particulate matter (settled particles, coarse PM10, fine PM2.5 or PM1, ultrafine particles) in urban atmosphere: characteristics, quality control and health effects*, Chapter 10, p. 221-244. In: Current topics, concepts and research priorities in environmental chemistry (III), Vol.III, C.Zaharia (Editor), Ed. Universitatii Al.I.Cuza din Iasi, ISBN 978-606-714-062-0 vol.III, **2014**

6. C.Zaharia, *Coagulation-flocculation processes in water and wastewater treatment. (II) Fine particles and its removal using electrolytes and polyelectrolytes*, Chapter 8, p. 165-195. In: Current topics, concepts and research priorities in environmental chemistry (III), Vol.III, C.Zaharia (Editor), Ed. Universitatii Al.I.Cuza din Iasi, ISBN 978-606-714-062-0 vol.III, **2014**

7. D.Suteu, A.C.Blaga, **C.Zaharia**, *The action of microorganisms from organic pollutants in water, air, soil*, Chapter 12, p. 259-274. In: Current topics, concepts and research priorities in environmental chemistry (II), vol.II, C. Zaharia (Ed), Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-703-939-2, **2013**

8. C.Zaharia, D.Suteu, *Industrial wasted materials as 'low cost' sorbents for effluent treatment*, Chapter 9, p. 189-212. In: Current topics, concepts and research priorities in environmental chemistry (II), C.Zaharia (Ed), Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-703-939-2 vol. II, **2013**

9. L.E.Dartu, G.Carja, **C.Zaharia**, *LDH as environmentally friendly, matrices with high adsorption*, Chapter 7, p.133-152. In: Current topics, concepts and research priorities in environmental chemistry (II), Vol.II, C.Zaharia (Ed), Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-703-939-2 vol. II, **2013**

10. C.Zaharia, *Current disinfection processes in water and wastewater treatment*, Chapter 4, p. 63-86. In: Current topics, concepts and research priorities in environmental chemistry (II), Vol.II, C. Zaharia (Ed), 300 pagini, Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-703-939-2 vol. II, **2013**

11. D.Șuteu, **C.Zaharia**, A.C.Blaga, *Biosorption – current bioprocess for wastewater treatment*, Chapter 10, p. 221-244. In: Current topics, concepts and research priorities in environmental chemistry (I), vol. I, C. Zaharia (Ed), Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-403-798-5 vol. I, **2012**

12. R.Diaconescu, **C.Zaharia**, D.Popovici, *Coagulation-flocculation processes applied for Prut River Source in Iasi County: characteristics and neuronal modeling*, Chapter 9, p.193-220. In: Current topics, concepts and research priorities in environmental chemistry (I), Vol.I, C. Zaharia (Editor), Ed. Universitatii 'Al.I. Cuza' din Iasi, ISBN 978-973-703-797-8 general, ISBN 978-973-403-798-5 vol. I, **2012**

Lucrări ISI publicate:

► ***Selecție:*** **71** (43 prim/singur autor)

1. Zaharia C.*, Musteret C.-P., Afrasinei M.-A., *The Use of Coagulation–Flocculation for Industrial Colored Wastewater Treatment - (I) The Application of Hybrid Materials*, Applied Sciences (Switzerland),14, 2184, **2024**. Doi:10.3390/app14052184

2. Zaharia C.*, Suteu D., *Empirical Modeling by Active Central Composite Rotatable Design: Orange 16 Dye Bio-sorption onto Biosorbents Based on Residual Bacterial Lactobacillus sp. Biomass*, Separations, 10, 279, 2023, **2023**. Doi: 10.3390/ separations10050279

3. Suditu G.D., Blaga A.C.*, Tataru-Farmus R.E., **Zaharia C**., Suteu D.*, *Statistical analysis and optimization of the Brilliant Red HE-3B dye biosorption onto a biosorbent based on residual biomass*, Materials, 15, 7180, **2022**. Doi: 10.3390/ma15207180

4. Iacob-Tudose E.T., **Zaharia C.***, Melniciuc-Puica N., *Reduction of water color in a spinning disc reactor*, Applied Sciences (Switzerland), 12, 10253, **2022**. Doi:10.3390/app122010253

5. C.Zaharia*, D.Suteu, *Empirical modeling and optimization by active central composite rotatable design: Brilliant Red HE-3B dye biosorption onto residual yeast biomass-based biosorbents*, Applied Sciences (Switzerland), 12, 6377, **2022**. Doi: 10.3390/ app12136377

6. Suteu D., Blaga A.C., **Zaharia C.***, Cimpoesu R., Puitel A.C.*, Tataru-Farmus R.-E., Tanasă A.M., *Polysaccharides used in biosorbents preparation for organic dyes retaining from aqueous media*, Polymers, 14(3), 588, **2022**. Doi: 10.3390/polym14030588

7. Șuteu D., **Zaharia C.***, Blaga A.C., Peptu A.C., *Biosorbents based on residual biomass of Lactobacillus sp. bacteria consortium immobilized in sodium alginate for Orange 16 dye retention from aqueous solutions*, Desalination and Water Treatment, 246, 315-324, **2022**. Doi:10.5004/dwt.2022.28018

8. Danila A., Muresan E.I., Ibanescu S.A., Popescu A., Danu M.*, **Zaharia C**., Ceylan Türkoglu G., Erkan G., Starasf A.I., *Preparation, characterization, and application of polysaccharide-based emulsions incorporated with lavender essential oil for skin-friendly cellulosic support*, International Journal of Biological Macromolecules, 191, 405-413, **2021**. Doi: 10.1016/ j.ijbiomac.2021.09.090

9. Zaharia C., Leon F., Curteanu S., Iacob-Tudose E.T., *Textile wastewater treatment in a spinning disc reactor: Improved performances—experimental, modeling and SVM optimization*, Processes, 9(11), 2003, **2021**. Doi: 10.3390/pr9112003

10. Tanasa A., Puitel A.C., **Zaharia C**., Suteu D.*, *Sorption of reactive dyes from aqueous media using the lavender waste as biosorbent*, Desalination and Water Treatment, 236, 348-358, **2021**. Doi: 10.5004/ dwt.2021.27700

11. Blaga A.C., **Zaharia C**., Suteu D.*, *Polysaccharides as support for microbial biomass-based adsorbents with applications in removal of heavy metals and dyes*, Polymers, 13(17), 2893, **2021**. Doi: 10.3390/polym13172893

12. Horciu L.I., **Zaharia C.***, Blaga A.C., Rusu L., Suteu D.*, *Brilliant Red HE-3B dye bio-sorption by immobilized residual consortium Bacillus sp. biomass: fixed-bed column studies*, Applied Sciences (Switzerland), 11, 4498, **2021**. Doi: 10.3390/app11104498

13. Nica I., **Zaharia C**.*, Suteu D.*, *Hydrogel based on tricarboxi cellulose and poly(vinyl alcohol) used as biosorbent for cobalt ions retention*, Polymers, 13, 1444, **2021**. Doi: 10.3390/polym13091444

14. Daraban G.M., **Zaharia C**., Rusu L., Puitel A.C., Badeanu M., Suteu D.*, *Ultrasonic extraction for preparation of plant extracts with bioinsecticidal effects on pest from seed deposits*, Studia Universitatis Babes-Bolyai Chemia, 66(2), 309-324, **2021**. Doi: 10.24193/subbchem.2021.2.27

15. Danila D., Ibanescu S.A., **Zaharia C**., Muresan E.I., Popescu A., Danu M.*, Rotaru V., *Eco-friendly O/W emulsions with potential application in skincare products*, Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol. 612, 125969, **2021**. Doi: 10.1016/j.colsurfa.2020.125969

16. D. Suteu*, L. Rusu, **C. Zaharia***, M. Badeanu, G.M. Daraban, *Challenge of Utilization Vegetal Extracts as Natural Plant Protection Products, and Empirical Modeling*, Applied Sciences (Switzerland), 10, 8913, **2020**. Doi: 10.3390/app10248913

17. Iacob Tudose E.T., **Zaharia C.***, *Textile Wastewater Treatment on a Spinning Disc Reactor: Characteristics, Performances and Empirical Modeling*, Applied Sciences (Switzerland), 10, 8687, **2020**. Doi:10.3390/app10238687

18. Muresan E.I., Diaconu M., **Zaharia C**.*, Rosu G., Danila A., Pui A., *Bioactive Textiles Obtained by Using Aqueous Extracts of Vine Leaves*, Fibers and Polymers, 21 (11), 2505-2512, **2020**. Doi: 10.1007/s12221-020-1153-5

19. C.Zaharia*, M.Diaconu, E.I.Muresan, A.Danila, A.Popescu, G.Rosu, *Bioactive emulsions with beneficial antimicrobial application in textile material production*, Cellulose, 27, 9711-9723, **2020**. Doi: 10.1007/s10570-020-03432-y (WOS 000566872000001)

20. Nica I., **Zaharia C.**, Baron R.I., Coseri S., Suteu D., *Adsorptive materials based on cellulose: preparation, characterization and application for copper ions retention*, Cellulose Chemistry and Technology, 54 (5-6), 579-590, **2020**. Doi: 10.35812/Cellulose ChemTechnol.2020.54.58
21. Horciu I.L., Blaga A.C., Rusu L., **Zaharia C**., Suteu D.*****, *Biosorption of reactive dyes from aqueous media using the Bacillus sp. residual biomass, Desalination and Water Treatment*, 195, 353-360, **2020**. Doi:10.5004/dwt.2020.25901
22. Stănciulescu D., **Zaharia C.***, *Process water treatment in a thermal power plant: characteristics and sediment/ sludge disposal*, Environmental Engineering and Management Journal, 19(2), 255-267, **2020**
23. Nica I., Biliuta G., **Zaharia C.***, Rusu L., Coseri S., Suteu D.*, *Fixed-bed-column studies for Methylene Blue removal by cellulose Cellets*, Environmental Engineering and Management Journal, 19(2), 269-279, **2020**
24. Dănilă A., **Zaharia C.*,** Şuteu D., Mureșan E.I., Lisă G., Karavana S.Y., Toprak A., Popescu A., Chirilă L., *Essential mint oil-based emulsions: preparation and characterization*, Industria textila, 70 (1), 83-87, **2019**. Doi: 10.35530/IT.070.01.1581
25. C.Zaharia*, *Discoloration of industrial effluents by adsorption-based treatment onto coal fly ash activated with lime*, Desalination and Water Treatment, vol.127, 364–376, **2018**. Doi: 10.5004/dwt.2018.22786
26. Diaconescu R.M., **Zaharia C.***, *Neural modeling and optimization of a mechanical-chemical treatment applied for some industrial effluents. A Roumanian case study*, Chemistry Journal of Moldova (General, Industrial and Ecological Chemistry), 12(2), 19-27, 2**017**. Doi:10.19261/cjm.2017.394
27. D.Suteu*****, S.Coseri, **C.Zaharia***, G.Biliuta, I.Nebunu, *Modified cellulose fibers as adsorbent for dye removal from aqueous environment*, Desalination and Water Treatment, 90, 341-349, **2017**. Doi: 10.5004/dwt.2017.21491
28. C.Zaharia*, C.Jufa, *Water pollution status of Siret river in Pascani town area due to different domestic and wastewater treatment activities (winter season)*, Environmental Engineering and Management Journal, 16(3), 615-623, **2017**
29. C.Zaharia*, *Decentralized wastewater treatment systems: efficiency and its estimated impact against onsite natural water pollution status. A Romanian case study*, Process Safety and Environmental Protection, 108, 74-88, **2017**. Doi:10.1016/ j.psep.2017.02.004
30. D. Suteu, **C. Zaharia**, C.Popovici, T. Malutan, L. Rusu, L.Tabacaru, *Wood waste as a renewable source of energy*, Environmental Engineering and Management Journal, 15(3), 665-673, **2016**
31. D.Suteu, **C.Zaharia**, M.Badeanu, *Kinetic modeling of dye sorption from aqueous solutions onto apple seed power*, Cellulose Chemistry and Technology, 50(9-10), 1087-1093, **2016**
32. E.I.Muresan, **C.Zaharia**, A.Muresan, A.Cerempei, C.D.Radu, I.G.Sandu, *Studies on the Absorption of Dyes Used in the Textile Industry Using Metallo-silicate Beads as Adsorbents*, Revista de Chimie, 67(6), 1232-1238, **2016**
33. D.Suteu, S.Coseri, M.Badeanu, **C. Zaharia**, *Valorization of food wastes as sorbent for dye retention from aqueous medium*, Desalination and Water Treatment, 54(9), 2570-2580, **2015**. Doi: 10.1080/ 19443994.2014.898001
34. C.Zaharia*, *Application of Waste Materials as 'Low Cost' Sorbents for Industrial Effluent Treatment. A Comparative Overview*, International Journal of Materials &Products Technology, 50(3/4), 196-220, **2015**. Doi: 10.1504/ IJMPT.2015.068524
35. C.Zaharia*, *Evaluation of water pollution status in Siret Hydrographical basin (Suceava region) due to agricultural activities*, Chemistry Journal of Moldova (General, Industrial and Ecological Chemistry), 9(1), 42-52, **2014**
36. C.Zaharia*, V.Fedorcea, A. Beda, V.Amarandei, A.Muresan, *Removal of Remazol Rosso RB dye from aqueous effluents by homogenenous Fenton oxidation processes*, Chemistry Journal of Moldova (General, Industrial and Ecological Chemistry), 9(1), 74-79, **2014**
37. C.Zaharia*, D.Suteu, *A preliminary modeling and optimization study of a homogenous advanced oxidation process applied for an industrial colored effluent*, Journal of Environmental Protection and Ecology, 15(4), 1680-1689, **2014**
38. Zaharia C.*, Radu I., *Control Study of Siret River Quality in Pascani County Area and Estimation of Its Pollution Level*, ACTA CHEMICA IASI, 119-136, 21(2), **2013**. Doi: 10.2478/achi-2013-0011
39. C.Zaharia*, D.Suteu, *Coal fly ash as adsorptive material for treatment of a real textile effluent: operating parameters and treatment performance*, Environmental Science and Pollution Research, 20(4), 2226-2235, **2013**. Doi: 10.1007/ s11356-012-1065-y
40. Suteu D., **Zaharia C.**, Badeanu M., *Biohumus production by worm`s composting of some food wastes*, Scientific Study& Research – Chemistry and Chemical Engineering, Biotechnology, Food Industry, Vol.XIII(13), 2, 169-176, **2012**
41. D.Suteu, **C.Zaharia**, T. Malutan, *Equilibrium, Kinetic, and Thermodynamic Studies of Basic Blue 9 Dye Sorption on Agro-industrial Ligno-cellulosic Materials*, Open Chemistry (former Central European Journal of Chemistry), 10(6), 1913-1926, **2012**

42. C.Zaharia*, D.Suteu, A.Muresan, *Options and solutions for textile effluent decolourization using some specific physico-chemical treatment steps*, Environmental Engineering and Management Journal, 11(2), 493-509, **2012**

43. A.M.Mocanu, C. Luca, L. Odochian, **C.Zaharia**, C.Iordache, *Assessment of environmental impact of some new aryloxyalkyl carboxilic acid derivatives*, Environmental Engineering and Management Journal, 11(2), 413-420, **2012**

44. C.Zaharia*, *Evaluation of environmental impact produced by different economic activities with the global pollution index*, Environmental Science and Pollution Research, 19(6), 2448-2455, **2012**. Doi: 10.1007/ s11356-012-0883-3

45. D.Suteu, **C.Zaharia**, T.Malutan, *Removal of Orange 16 reactive dye from aqueous solution by wasted sunflower seed shells*, Journal of the Serbian Chemical Society, 176(3), 907-924, **2011**. Doi: 10.2298/ JSC100721051S

46. C.Zaharia*, D.Suteu, *Analytical Control of Soil and Ground Water Quality on a Northern Romanian Solid Waste Landfill*, Environmental Engineering and Management Journal, 10(11), 1693-1701, **2011**

47. C.Zaharia*, *Assessing the impact of some industrial and transport activities on soil by the global pollution index*, Environmental Engineering and Management Journal, 10(3), 387-391, **2011**

48. C.Zaharia*, D.Suteu, M.Macoveanu, *Environmental impact assessment for a unit of food aromas and essences production using the global pollution index*, Roumanian Biotechnology Letter, 15 (5), 5583-5558, **2010**

49. A.Popescu, A. Grigoriu, **C. Zaharia**, R. Mureşan, A.Mureşan, *Mathematical modelling and the technological process optimization for the bio-scouring of the cotton textile materials*, Industria Textila, 61(2), 70-80, **2010**

50. C.Zaharia*, I.Murăraşu, *Environmental impact assessment induced by an industrial unit of basic chemical organic compounds synthesis using the alternative method of global pollution index*, Environmental Engineering and Management Journal, 8(1), 107-112, **2009**

51. C.Zaharia*, M.Surpăţeanu, *Preliminary study of simple and Fenton oxidation with hydrogen peroxide applied on final effluents from a zootechnical farm*, Environmental Engineering and Management Journal, 8(3), 409-415, **2009**

52. D.Suteu, **C.Zaharia**, D.Bilba, R.Muresan, A.Popescu, A.Muresan, *Decolorization wastewaters from the textile industry – physical methods, chemical methods*, Industria Textila, 60(5), 254-263, **2009**

53. C.Zaharia*, D. Suteu, A.Muresan, R.Muresan, A.Popescu, *Textile wastewater treatment by homogenous oxidation with hydrogen peroxide*, Environmental Engineering and Management Journal, 8(6), 1359-1369, **2009**

54. D.Suteu, **C.Zaharia**, A.Muresan, R.Muresan, A.Popescu, *Using of industrial waste materials for textile wastewater treatment*, Environmental Engineering and Management Journal, 8(5), 1097-1102, **2009**

55. C.Zaharia, D.Suteu, *Optimization of homogenous oxidation process with hydrogen peroxide using Box method applied for wastewaters containing Methylene Blue dye*, Scientific Study & Research, 49-60, vol.IX(1), **2008**

56. D.Suteu, D.Bilba, **C.Zaharia**, A.Popescu, *Removal of dyes from textile wastewater by sorption onto ligno-cellulosic materials*, Scientific Study & Research, 293-302, vol.IX(3), **2008**

58. M.Surpateanu, **C.Zaharia***, G.G.Surpăţeanu, *Microwave-assisted chemistry. A review of environmental applications*, Environmental Engineering and Management Journal, 6(6), 521-527, **2007**

59. I.I.Dospinescu, **C.Zaharia**, M.Macoveanu, *Study of increasing soil fertility into a site with high electric field around using polymeric conditioning agent*, Environmental Engineering and Management Journal, 6(6), 567-572, **2007**

60. C.Zaharia*, M.Surpăţeanu, M.Macoveanu, *Assessment of environmental impact generated by municipal waste deposition into a Romanian landfill*, Journal of Environmental Protection and Ecology, 8(2), 332-345, **2007**

61. C.Zaharia*, R.Diaconescu, M.Surpăţeanu, *Study of flocculation with Ponilit GT-2 anionic polyelectrolyte applied into a chemical wastewater treatment*, Open Chemistry (former Central European Journal of Chemistry), 5(1), 239-256, **2007**. Doi: 10.2478/s11532-006-0057-6

62. **C.Zaharia***, R.Diaconescu, M.Surpateanu, *Optimization study of a wastewater chemical treatment with Ponilit GT-2 anionic polyelectrolyte*, Environmental Engineering and Management Journal, 5(5), 1141-1152, **2006**. Doi: 10.30638/eemj.2006.107

63. **C.Zaharia***, M.Surpateanu, I.Cretescu, M.Macoveanu, H. Braunstein, *Electrocoagulation/ electroflotation—methods applied for wastewater treatment*, Environmental Engineering and Management Journal, 4(4), 463-472, **2005**. Doi: 10.30638/eemj.2005.041

64. B.Robu, **C.Zaharia**, M.Macoveanu, *Environmental impact assessment for steel processing*, Environmental Engineering and Management Journal, 5(1), 4(1), 51-65, **2005**. Doi: 10.30638/eemj.2005.008

65. F.Apostu, **C.Zaharia**, C.Rogozanu, H.Braunstein, *Study of wet hydrogen peroxide oxidation process applied for advanced treatment of wastewaters containing high phenol concentrations*, Environmental Engineering and Management Journal, 4(4), 519-532, **2005**. Doi: 10.30638/eemj.2005.045

66. M.Surpateanu, **C.Zaharia**, *Advanced oxidation processes. Decolourization of some organic dyes with H2O2*, Environmental Engineering and Management Journal, 3(4), 629-640, **2004**. Doi: 10.30638/eemj.2004.060 (6 p./2 = 3.000 p.)
67. M.Surpăţeanu*, **C.Zaharia***, *Advanced oxidation processes for decolorization of aqueous solution containing Acid Red G azo dye*, Open Chemistry (Central European Journal of Chemistry), 2(4), 573-588, **2004**. Doi: 10.2478/BF02482722
68. M.Neamţu, **C.Zaharia**, C.Catrinescu, Ayfer Yediler, A. Kettrup, M.Macoveanu, *Fe-exchanged Y zeolite as catalyst for wet peroxide oxidation of reactive azo dye Procion Marine H-EXL*, Applied Catalysis B: Environmental, 78(2), 287-294, **2004**. Doi: 10.1016/ j.apcatb.2003.11.005
69. Zaharia C., Surpateanu M. *The impact of energy production on environment in Romania*, Environmental Engineering and Management Journal, 1(3), 313–321, 2002. Doi: 10.30638/eemj.2002.031
70. D.Şuteu, D.Bîlbă, **C.Zaharia**, *Kinetic study of Blue M-EB dye sorption on ion exchange resins*, Hungarian Journal of Industrial Chemistry, 30, 7-11, **2002**
71. M.Nicu, N.Asandei, M.Dărângă, **C.Zaharia**, D.Asandei, *Copolymers 15. Study on characteristics of some copolyme-rizations of acrylonitrile with nonyl phenol-oligoethoxylate monofumarate and vinylacetate*, Revue Roumaine de Chimie, 40 (7-8), 669-677, **1995**

Brevete:

► ***Brevete OSIM*** **: 3** (1 prim/singur autor)

1. Muresan E.I., **Zaharia C**., *Procedeu de obținere a silicaților metalici poroși multimodali prin tehnica pulverizarii gelului*, **2023**, Brevet de inventie RO 133821-B1 / 30.03.2023, BOPI nr. 3/2023
2. C.Zaharia*, D.Suteu, E.I.Muresan, A.Muresan, *Material deseu lignocelulozic și procedeu de epurare a apelor uzate din industria textilă care utilizează acest material*, **2019**, Brevet de inventie RO130219-B1 / 30.12.2019, BOPI nr. 12/2019
3. D.Suteu, **C.Zaharia***, A.Muresan, *Procedeu de epurare a apelor uzate provenite din industria textile*, **2016**, Brevet de inventie RO127284 B1, 15/10/2016, BOPI nr. 9/2016

Lucrări în proceeding ISI

► ***Lucrări în volume/proceeding conferințe internaționale indexate ISI*****: 23** (18 pri/singur autor)

1. C.L. Ortovan, M.A. Afrasinei, **C. Zaharia***, *Biosorptive treatment of dye-containing effluents with fresh-water green algal waste biomass. (I) Biosorbent characteristics and its preliminary efficiency*, eBook Nature Springer Switzerland AG, series Lecture Notes in Civil Engineering, G. Mannina et al. (Eds.): ICWRR 2024, LNCE 524, pp. 292-297, **2024**, 18-21 June 2024, Palermo, Italy, 2024. Doi: 10.1007/978-3-031-63353-9_71
2. C.Zaharia*, C.P. Musteret, *Use of combined electrolyte and polymeric materials for coagulation-flocculation of real industrial effluents: empirical modeling and optimization*, eBook Nature Springer Switzerland AG, series Lectures Notes in Civil Engineering, G. Mannina et al. (Eds.): ICWRR 2024, LNCE 524, pp. 417–423, 2024, 18-21 June 2024, Palermo, Italy, **2024**. Doi: 10.1007/978-3-031-63353-9_71
3. Danila A., Muresan E.I., **Zaharia C.**, Popescu A., Macarel V.C., *Beeswax-based emulsions for topical application*, 19th International Multidisciplinary Scientific GeoConference - SGEM 2019, 30 June - 6 July 2019, Albena, Bulgaria, Vol. 19, Section: Nano, Bio, Green and Space: Technologies for Sustainable Future \ Issue: 6.1, 121-128, **2019**, ISSN 1314-2704, Doi: 10.5593/sgem2019/6.t
4. E.T.Iacob Tudose, **C.Zaharia***, *Spinning Disc Technology – Residence Time Distribution and Efficiency in Textile Wastewater Treatment Application*, Open Access Proceedings - Journal of Physics, Conference Series, Euroinvent ICIR 2018 IOP Conf. Series: Materials Science and Engineering, 374, **2018**, 012037. Doi:10.1088/1757-899X/374/1/012037
5. Diaconescu V.D., Scripcariu L., Diaconescu R., **Zaharia C**., Vornicu-Albu L., *Smart binnacle monitoring system for religious heritage conservation and security*, ESRARC 2017, Proceedings book - 9th European Symposium on Religious Art, Restoration & Conservation, Eds. I.Rusu, M.T. Nechita, E.N. Drăgoi, N. Apostolescu, p. 90-93, **2017**, ISBN 978-88-94206-44-9, ISSN 2532-4381, Kermes 2017, www.kermes.cloud, Torino (Lexis Compagnia Editoriale in Torino srl); WOS:000409307900019
6. C.Zaharia, *Comparative overview of primary sedimentation-based mechanical stage in some wastewater treatment systems*, Journal of Physics, Journal of Physics, ModTech IOP Publishing, IOP Conf. Series: Materials Science and Engineering 227 (2017) 012138, p. 1-18, **2017**. Doi: 10.1088/1757-899X/227/1/012138
7. C.M.Puscasu, G.Carja, M.Mureseanu, **C.Zaharia***, *Mixed oxides derived from layered double hydroxides as novel catalysts for phenol photodegradation*, Journal of Physics, ModTech IOP Publishing, IOP Conf. Series: Materials Science and Engineer-ing 227, 012105, p.1-8, **2017**. Doi: 10.1088/1757-899X/227/1/012105
8. M.C.Puscasu, G.Carja, **C.Zaharia***, *MgFeZnLDHs nanoarchitectonics for photocatalytic removal of some organic pollutants under solar irradiation* (former: *Removal of some organic pollutants by using solar irradiation*), International Journal of Materials & Products Technology, 51(3), 228-240, 2015. Doi: 10.1504/IJMPT.2015.072239

9. C.Zaharia, V.Amarandei, A.Muresan, *Comparative Overview of Different Physical-Chemical Treatments Applied for Real Textile Effluents*, Advanced Materials Research (Proceeding of the International Conference – ModTech 2014 - Modern Technologies in Industrial Engineering II, iulie 13-16, 2014, Gliwice, Poland), 58-64, Vol.1036, 2014. Doi: 10.4028/www.scientific.net/AMR.1036.58
10. L.E.Dartu, **C.Zaharia**, G.Carja, *Application of New Synthesized Materials Based on Anionic Clays for Industrial Effluent Decoloration*, Advanced Materials Research (Proceeding of the International Conference – ModTech 2013, 27-29 iunie 2013, Sinaia), 271-276, Vol.837, 2014 (©Trans Tech Publications, Switzerland) (ISI Web of Science, http://www.modtech.ro); WOS:000337000500049
11. C.Zaharia*, Application of a physico-chemical treatment based on adsorption for industrial effluents. A case study*, Proceeding of the 16th International Conference – Modern Technologies, Quality and Innovation – ModTech International Conference – New Face of T.M.C.R., ModTech 2012, 24-26 mai, Sinaia, 1069-1072, Vol.II, 2012 (http://www.modtech.ro); WOS:000392261800268
12. C.Zaharia, *Fundamentals of production water management for an industrial productive unit*, Proceeding of the 16th International Conference – Modern Technologies, Quality and Innovation – ModTech International Conference – New Face of T.M.C.R., ModTech 2012, 24-26 mai, Sinaia, 1065-1068, Vol.II, 2012 (http://www.modtech.ro); WOS:000392261800267
13. C.Zaharia, *A comparative overview of the environmental impact assessment produced by different economic activities using the global pollution index*, Proceeding of the 15th International Conference – Modern Technologies, Quality and Innovation, May 25-27, Vol.II, 1185-1188, 2011 (www.modtech.ro); WOS:000392260500297
14. C.Zaharia, *Environmental legislation and management applied into a machine-tools manufacturing plant*, Proceeding of the 14th International Conference – Modern Technologies, Quality and Innovation – ModTech International Conference – New face of T.M.C.R., 20-22 mai, Slanic Moldova, 691-694, 2010 (http://www.modtech.ro); WOS:000282604000170
15. C.Zaharia, *An environmental impact assessment applied for a unit of machine-tools manufacturing*, Proceeding of the 14th International Conference – Modern Technologies, Quality and Innovation – ModTech International Conference – New Face of T.M.C.R., 20-22 mai 2010, Slanic Moldova, 687-690, 2010 (www.modtech.ro); WOS:000282604000169
16. C.Zaharia, *A preliminary optimization study applied for a homogenous oxidation with hydrogen peroxide of an industrial wastewater*, Proceeding of the 13th International Conference – Modern Technologies, Quality and Innovation – ModTech 2009 – New Face of T.M.C.R., 21-23 mai, Iasi, 711-714, 2009 (www.modtech.ro); WOS:000274641800176
17. C.Zaharia, *An environmental impact assessment applied for a multifunctional petrol station*, Proceeding of the 13th International Conference – Modern Technologies, Quality and Innovation – ModTech 2009–New Face of T.M.C.R., 21-23 mai 2009, Iasi, 707-710, 2009 (ISI Web of Science, http://www.modtech.ro); WOS:000274641800175
18. D.Suteu, **C.Zaharia**, *Removal of textile reactive dye Brilliant Red HE-3B onto materials based on lime and coal ash*, ITC&DC, Book of Proceedings of 4th International Textile, Clothing & Design Conference – Magic World of Textiles, October 5th-8th, 2008, Dubrovnik, Croatia, 1118-1123, 2008 (ISBN 978-953-7105-26-6) WOS:000262707700197
19. C.Zaharia*, I.Murarasu, *Environmental impact assessment induced by a unit of basic chemical organic compounds synthesis using the rapid MERI method*, Proceedings of the 5th International Conference – Management of Technological Changes, 25-27 august 2007, Alexandroupolis, Grecia, vol.2, 531-540, 2007 (ISBN 978-960-8932-0-5, vol.II 978-960-8932-29) WOS:000252696800073
20. C.Zaharia, *Industrial wastewater reuse - new environmental perspectives and reglementations*, Proceedings of the 5th International Conference – Management of Technological Changes, 25-27 august 2007, Alexandroupolis, Grecia, vol.2, 525-530, 2007 (ISBN 978-960-8932-0-5, vol.II 978-960-8932-29) WOS:000252696800072
21. C Zaharia*, M Surpateanu, *Environmental impact assessment using the method of global pollution index applied for a heat and power co-generation plant*, Environmental Engineering and Management Journal, 5(1), 69-78, 2006
22. C.Zaharia*, M.Surpateanu, *The environmental impact of municipal waste deposition on water quality*, Environmental Engineering and Management Journal, 5(1), 69-78, 2006
23. C.C.Ioan, **C.Zaharia**, *Considerations on the possibilities of optimisation the relation between vocational education and training in the forming of an environmental engineer*, Proceeding of the 2nd UICEE Annual Conference on Engineering Education, Auckland, New Zealand, 10-13 Febr, 334-335, 1999, WOS:000081394500067

Lucrări științifice publicate în reviste din străinătate:

► **Lucrări științifice publicate în reviste din străinătate: 19** (14 prim/singur autor)

1. C.Zaharia, M.Surpăţeanu, M.Macoveanu*, Environmental impact assessment generated by a Romanian urban landfill*, Revista: „Mediul ambiant", nr.3, Chişinău, 23-29, 2006 (ISSN 1810-9551) (mediuambiant@mrda.md)

2. E.T.Iacob Tudose, **C.Zaharia***, *Spinning Disc Technology – Residence Time Distribution and efficiency in Textile Wastewater Treatment Application*, Journal of Physics, 374, 2018, 012037. Doi:10.1088/1757-899X/374/1/012037

3. C.Zaharia, *Comparative overview of primary sedimentation-based mechanical stage in some wastewater treatment systems*, Journal of Physics, 227 (2017), 012138, p. 1-18, 2017. Doi: 10.1088/1757-899X/227/1/012138

4. C.M.Puscasu, G.Carja, M.Mureseanu, **C.Zaharia***, *Mixed oxides derived from layered double hydroxides as novel catalysts for phenol photodegradation*, Journal of Physics, 227, 012105, p.1-8, 2017. Doi: 10.1088/1757-899X/227/1/012105

5. M.C.Puscasu, G.Carja, **C.Zaharia***, *Removal of some organic pollutants by using solar irradiation*, International Journal of Materials & Products Technology, 51(3), 228-240, 2015. Doi: 10.1504/IJMPT.2015.072239

6. C.Zaharia, V.Amarandei, A.Muresan, *Comparative Overview of Different Physical-Chemical Treatments Applied for Real Textile Effluents*, Advanced Materials Research, 58-64, Vol.1036, 2014. Doi: 10.4028/www.scientific.net/AMR.1036.58

7. L.E.Dartu, **C.Zaharia***, G.Carja, *Application of New Synthesized Materials Based on Anionic Clays for Industrial Effluent Decoloration*, Advanced Materials Research 271-276, Vol.837, 2014. WOS:000337000500049

8. D.Suteu, **C.Zaharia**, G.Rusu, *Kinetic study of Methylene Blue dye sorption from liquid media onto lignin*, „V.Aprilov" University Journal, Gabrovo, vol. III, III-523-III-528, 2010 (ISSN 1313-230x)

9. C.Zaharia*, L.Dartu, *A preliminary soil impact assessment of some economic activities into an urban site*, „V.Aprilov" University Journal, Gabrovo, vol. III, III-568-III-573, 2010 (ISSN 1313-230x)

10. C.**Zaharia***, D.Suteu, *Optimization study of Brilliant Red HE-3B dye sorption onto modified coal ashes*, „V.Aprilov" University Journal, Gabrovo, vol. III, III-528-III-534, 2009 (ISSN 1313-230x)

11. D.Suteu, **C.Zaharia**, *Reactive Orange 16 dye removal from aqueous system using corn cob waste*, Proceedings of International Scientific Conference – Unitech'09, Gabrovo, Bulgaria, 20-21 noiembrie 2009, vol. III, III-523-III-527, 2009 (ISSN 1313-230x)

12. C.Zaharia*, D.Suteu, *Optimization study of Rhodamine B dye sorption onto coal ashes*, „V.Aprilov" University Journal, Gabrovo, vol. III, III-469-III-474, 2008 (ISSN 1313-230x)

13. D.Suteu, **C.Zaharia**, M.Harja, *Residual ash for textile wastewater treatment*, „V.Aprilov" University Journal, Gabrovo vol. III, III-475-III-480, 2008 (ISSN 1313-230x)

14. C.Zaharia, I.Ivanov Dospinescu, M.Macoveanu, *Improvements of soil fertility using polymeric conditioning agents into a site with high electric tension around*, „V.Aprilov" University Journal, Gabrovo, vol.II, II-308-II-311, 2007 (ISSN 1313-230x)

15. C.Zaharia*, R.Diaconescu, *Optimization study of an wastewater treatment using electrocoagulation-electroflotation in the presence of polyelectrolyte*, „V.Aprilov" University Journal, Gabrovo, vol.II, II-265-II266, 2007 (ISSN 1313-230x)

16. D.Şuteu, G.Rusu, **C.Zaharia**, M.Harja, *Preliminary studies about Rhodamine B sorption onto coal ash*, „V.Aprilov" University Journal, Gabrovo, vol.II, II-312-II-316, 2007 (ISSN 1313-230x)

17. D.Şuteu, **C.Zaharia**, *Thermodynamic and kinetic study of Cr3+ ions sorption on residual cellolignine*, „V.Aprilov" University Journal, Gabrovo, vol. III, III-377-III-380, 2006 (ISSN 1313-230x)

18. C.Zaharia*, R.Diaconescu, M.Surpăţeanu, *Optimization study of an industrial wastewater chemical treatment with Prodefloc CRC 301 cationic polyelectrolyte*, „V.Aprilov" University Journal, Gabrovo, Bulgary, vol.III, III-353-III-358, 2006 (ISSN 1313-230x)

19. C.Zaharia*, M.Neamţu, A.Yediler, M.Surpăţeanu, M.Macoveanu, *Catalytic wet hydrogen peroxide oxidation of Reactive Procion Marine H-EXL dye solutions*, „V.Aprilov" University Journal, Gabrovo, Bulgary, vol.II, II-383-II-388, 2005 (ISSN 1313-230x

Lucrări științifice publicate în reviste din țară:

► ***Lucrări publicate în reviste din țară, recunoscute CNCSIS***: **90** (**60** prim/singur autor)

1. C.A. Haivas, **C. Zaharia***, *Wastewater characteristics of a cattle zootechnical farm – a case study*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, Secţia: Chimie şi Inginerie Chimică, 71(75), 3, 9-20, 2025. Doi: 10.5281/zenodo.17357071

2. Ortovan C.L., **Zaharia C**.*, *Textile dye biosorption onto non-living freshwater green biomass: influencing factors and its efficiency. A case study* (I), Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 70 (74), 4, 10-22, 2024

3. Zaharia C., Iacob-Tudose E.T.*, *Spinning disc technology for textile wastewater treatment – characteristics, modelling and optimization study*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 69 (73), 1, 27-45, 2023

4. Zaharia C.*, *Innovative wastewater treatment technologies: opportunities, perspectives and challenges*, Habilitation thesis summary, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, Vol. 68 (72), 2, 89-92, 2022

5. Zaharia C.∗, Simion M., Volf I., *Ex-situ remediation of a petroleum hydrocarbons contaminated soil*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, Volumul 68 (72), 1, 91-102, 2022

6. Tătaru-Farmuș R.E., **Zaharia C.***, Suteu D., Blaga A.C., *Biomass-based soil in ecological agriculture: characteristics and wheat grains development trends*, Journal of Applied Life Sciences and Environment, Vol. LIV, Issue 3 (187), 273-288, 2021. Doi: 10.46909/journalalse-2021-024

7. Suteu D.∗, Blaga A.C., **Zaharia C**., Horciu I.L., *Residual biomass of Lactobacillus immobilized in alginate for Orange 16 dye retention from aqueous medium*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 67(71), 3, 63-72, 2021

8. Daraban G.M., Badeanu M., Rusu L., **Zaharia C**., Suteu D.*, *Vegetal extract from spontaneous Romanian flora with bioinsecticidal action*, Research Journal of Agricultural Science, 52 (4), 1-8, 2020

9. Blaga C.A., Horciu I.L., **Zaharia C**., Rusu L., Grigoraş C., Suteu D., *Biosorbents based on microorganisms*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 66 (70), Nr. 4, 39-53, 2020

10. Zaharia C.*, Grădinaru F.D., *Reactive Arancio Kemazol 3R dye removal from aqueous solutions by adsorption onto sawdust*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 66 (70), Nr. 2, 31-42, 2020

11. Zaharia C.*, Dănilă A., Mureșan E.I., Șuteu D., *Emulsions of Beeswax-Lavender Oil: Characteristics and Preliminary Analysis for Use in Manufacturing of value-Added Textiles*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 66 (70), 1, 63-74, 2020

12. Nebunu I., **Zaharia C.**, Tătaru-Fărmuș R.E., Baron R.I., Coseri S., Șuteu D.∗, *Preliminary studies about Co(II) metallic ions retention from aqueous solutions onto PVA-cellulose composite hydrogels*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 65 (69), 4, 27-35, 2019

13. Zaharia C., Dănilă A., Mureșan E.I., Suteu D., *Emulsions based on rosemary essential oil – beeswax system used in manufacturing of value – added textiles for skin care benefits*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 65 (69), Nr. 2, 9-20, 2019

14. Horciu I.L., Blaga A.C., **Zaharia C**., Dascălu S., Șuteu D.*, *Valorization of residual biomass as biosorbent: study of biosorption brilliant red dye from aqueous media*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 65 (69), 1, 57-68, 2019

15. C.Zaharia*, *Textile effluent discoloration by sorption onto mesotrophic peat*, Bull.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 65 (69), 1, 9-21, 2019

16. Horciu L.I., Blaga A.C., **Zaharia C**., Suteu D.*, *Biosorbent based on nonliving biomass for textile dye retention from aqueous media*, Bull.Inst.Polit.Iaşi, Seria: Chimie şi Inginerie Chimică, 64 (68), 4, 9-17, 2018

17. I.Nica, G.Biliuță, S.Coșeri, **C.Zaharia**, D.Suteu, *Microcrystalline cellulose as adsorbent for removal of dyes from wastewaters*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, tome 63 (67), fasc. 4, 35-44, 2017

18. Zaharia C., *Phenol and colour removal from wastewater using two coal-based adsorptive materials: preliminary laboratory tests and performances*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, tomul 62 (66), fasc. 1, 45-57, 2016

19. C.Zaharia, *Evaluation of Water Pollution Status in Bahlui River (Iasi Town Area) due to Domestic and Urban Wastewater Treatment Activities*, Journal of Engineering Studies and Research, 21(4), 79-88, 2015

20. C.Zaharia, *Environmental System Engineering (ESE): Modeling and Optimization of a Textile Effluent Discoloration Process by Sorption*, Journal of Engineering Studies and Research, 21(4), 68-78, 2015

21. C.Zaharia, A.Muresan, *Environmental standards, obligations and recommendations in treatments of textile effluent*, Revista de inventica (Journal of Inventics), Vol. 17, Nr. 86, 1-11, 2014

22. C.Zaharia, Luca C.M., Romaşcanu A., *Decoloration study of Remazol Arancio RB azo dye from aqueous solutions by homogeneous Fenton-like oxidative processes*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 83-93, tomul LIX (LXIII), fasc. 4, 2013

23. C.Zaharia, D.Suteu, *Modeling and optimization of a real textile effluent treatment by sorption onto sawdust as 'low cost' sorbent*, Lucrari stiintifice, seria: Horticultura, 561-566, an LVI, Vol.56, nr.2, 2013

24. E.Danalache, **C.Zaharia***, *Control of some quality indicators of Prut River in two control sections (Radauti and Darabani) (spring season)*, Lucrari stiintifice, seria: Horticultura, 531-536, anul LVIII(LXII), Vol.56, nr.2, 2013

25. C.Zaharia, D.Suteu, *Environmental impact estimation of some disinfection treatments applied for a final zoo-technical effluent using the global pollution index*, Lucrari stiintifice, seria: Horticultura, 571-576, anul LVI, 56 (1), 2013

26. D.Suteu, **C.Zaharia**, M.Badeanu, *Preliminary studies about directions of recovery the wastes from apple processing*, Lucrari stiintifice, seria: Horticultura, anul LVI, Vol.56, nr.1, 555-560, 2013

27. C.Zaharia, M.Onofrei, *Aspects of medical wastes management in Iasi. Case study: a dental surgery*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, LIX(LXIII), f.1, 35-46, 2013

28. C.Zaharia, L.Mutu, *Aspects concerning the integrated management of solid urban wastes in Botoşani county*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, LIX(LXIII), f.1, 61-74, 2013
29. Zaharia C., Luca C.M., Romaşcanu A., *Decoloration study of Remazol Arancio RB azo dye from aqueous solutions by homogeneous Fenton-like oxidative processes*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 83-93, tomul LIX (LXIII), fasc. 4, 2013
30. Zaharia C., Diaconescu R., *Evaluation of the air quality in an urban residential site. A case study*, Doxologia, serie: Conservare si restaurare patrimoniu cultural, vol. II, 265-279, 2013
31. Diaconescu V.D., Luca D., **Zaharia C**., *Electromagnetic forming (EMF) – an ecological and clean processing technology*, Doxologia, serie: Conservare si restaurare patrimoniu cultural, vol. II, 251-257, 2013
32. C.Zaharia, I.Teslaru, *Control and analysis of some water quality indicators of Bahlui River in Iasi county area (spring season)*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 69-80, LVIII(LXII), f.2, 2012
33. D.Suteu, **C.Zaharia**, M.Badeanu, *Lignocellulosic agro-industrial wastes as sorbents for dyes removal from aqueous media*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 59-68, LVIII(LXII), f.2, 2012
34. C.Zaharia, *Performances of natural polyelectrolytes based on starch in aggregation and stabilization of aqueous coal-containing systems*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 29-39, LVIII(LXII), f.1, 2012
35. C.Zaharia, D.Suteu, *Preliminary study of decolourization by sorption onto sawdust of a real textile effluent*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 9-18, LVIII(LXII), f.1, 2012
36. D.Suteu, **C.Zaharia**, *Sawdust as biosorbent for removal of dyes from wastewaters. Kinetic and thermodynamic study*, Buletinul Stiintific al Universitatii „Politehnica" din Timisoara, Romania, seria: Chimie si Ingineria Mediului, 24-33, Vol.56(70), No.2, 2011
37. C.Zaharia, D.Suteu, *Optimization study of Orange 16 dye sorption from aqueous systems using sawdust wastes*, Chem.Bull. 'POLITEHNICA' Univ. (Timisoara), seria: Chimie si Ingineria Mediului, 24-28, Vol.56(70), No.1, 2011
38. D.Suteu, **C.Zaharia**, T.Malutan, *Sorption equilibrium study of Methylene Blue dye removal from aqueous media onto cellolignine*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 21-28, LVII(LXI), f.3, 2011
39. C.Zaharia, D.Suteu, *Preliminary study of Orange 16 dye sorption from aqueous solutions onto industrial lignin*, Bul.Inst.Polit. Iasi, series: Chemistry and Chemical Engineering, 109-117, LVII(LXI), f.1, 2011
40. C.Zaharia, D.Suteu, *The natural resources and sustainable development*, Cercetari agronomice in Moldova, Vol XLIV(145), No.1, 93-101, 2011
41. L.E.Dartu, **C.Zaharia**, G.Carja, I*ron containing layered double hydroxides: structural, textural properties and applications as catalysis in decolorization of some water resources by heterogenous oxidative processes*, Bul.Inst.Polytechnic, Iasi, series:Chemistry and Chemical Engineering, 51-61,LVI(LX), f.4, 2010
42. C.Zaharia, L.E.Dartu, *Preliminary study of decolorization of some textile effluent by homogenous oxidative processes*, Bul.Inst.Politechnic, Iasi, series: Chemistry and Chemical Engineering, 63-71, LVI(LX), f.4, 2010
43. D.Suteu, **C.Zaharia**, M.Badeanu, *Agriculture wastes used as sorbents for dyes removal from aqueous environments*, Lucrări Ştiinţifice, seria Agronomie, vol. 53, Nr. 1, 140-145, 2010
44. D.Suteu, **C.Zaharia**, G.Rusu, *Reactive dye removal from aqueous solution by sorption on modified ash, Cercetari agronomice in Moldova*, Vol XLIII, No.1 (141), 59-65, 2010
45. C.Zaharia, D.Suteu, E.Chiorescu, *Soil impact assessment of some economic activities on a Romanian industrial site*, Lucrări Ştiinţifice, seria Agronomie, vol. 53, Nr.1, 161-165, 2010
46. C.Zaharia, *The sustainable agricultural development – concepts, principles, eco-efficiency, eco-equity*, Cercetari agronomice in Moldova, Vol XLIII (143), No.3, 91-99, 2010
47. C.Zaharia, *Environmental impact of renewable energies*, Buletinul Institutului Politehnic din Iasi, seria: Constructii de masini, tom LVI (LX), f.2b, 61-72, 2010
48. C.Zaharia, D.Suteu, *Some aspects of e-wastes management in Romania*, Buletinul Institutului Politehnic din Iasi, seria: Constructii de masini, tom LVI (LX), f.2b, 51-60, 2010
49. C.Zaharia, G.Irimiţa, *Aspects of environmental legislation application concerning the municipal wastes landfills into Iasi county area*, Bul.Inst.Politechnic, Iasi, series: Chemistry and Chemical engineering, LVI(LX), f.1, 87-97, 2010
50. D.Suteu, M.Badeanu, **C.Zaharia**, *Valorisation of biodegradable wastes using worms' cropping*, Lucrari Stiintifice, seria: Horticultura, Vol.52, 1173-1178, 2009
51. D.Suteu, **C.Zaharia**, M.Badeanu, *The impact of solid wastes against the principal environmental components*, Lucrari Stiintifice, seria: Horticultura, Vol.52, 1167-1172, 2009
52. C.Zaharia, D.Suteu, Optimization study of Orange 16 dye sorption onto sawdust wastes, Bul.Inst.Politechnic, Iasi, series: Chemistry and Chemical engineering, tom LV(LIX), fasc.4, 103-113, 2009

53. C.Zaharia, *Environmental impact assessment for an industrial unit of bricks production*, Bul.Inst.Politechnic, Iasi, series: Chemistry and Chemical engineering, tomLV(LIX), fasc.4, 47-57, 2009
54. D.Suteu, **C.Zaharia**, *Sawdust as new type of biosorbent for removal of dyes from wastewaters. Equilibrium study*, Bul.Inst.Politechnic, Iasi, series: Chemistry and Chemical Engineering, tom LV(LIX), fasc.4, 29-37, 2009
55. C.Zaharia, D.Suteu, D.Bilba, *The recovery of streptomycin from industrial effluents*, Bulletin of the Transilvania University of Brasov, series I, Vol. 2(51), 231-236, 2009
56. D.Suteu, D.Bilba, **C.Zaharia**, *HPAN textile fiber wastes for removal of dyes from industrial textile effluents*, Bulletin of the Transilvania University of Brasov, series I, Vol. 2(51), 217-222, 2009
57. C.Zaharia, *Ecological label – a demand of product quality* ?, Buletinul Institutului Politehnic din Iaşi, seria Construcţii de maşini, tom LIV (LVIII), fasc.3, 271-276, 2008
58. D.Şuteu, **C.Zaharia**, *Studies regarding sorption onto solid materials based on coal ashes*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tom LIV (LVIII), fasc.3, 81-90, 2008
59. R.Diaconescu, **C.Zaharia**, A.Cojocariu, *Deconvolution of spectra*, Buletinul Institutului Politehnic din Iaşi, seria Matematica.Mecanica teoretica.Fizica, tome LIV (LVIII), fasc.1, 45-51, 2008
60. C.Zaharia, M.Surpăţeanu, *Comparative study of environmental impact assessment using the global pollution method applied in the case of four Moldavian solid wastes landfills*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tom LIII (LVII), fasc.3-4, 109-124, 2007
61. C.Zaharia, I.Ivanov, M.Macoveanu, *The use of Ponilit GT-2 anionic polyelectrolyte as soil conditioning agent*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tom LIII (LVII), fasc.3-4, 85-92, 2007
62. C.Zaharia, D.Şuteu, *Analysis and treatment of effluents from a zootechnical farm*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", secţia Chimie, tome XV, (1), 89-96, 2007
63. M.Surpăţeanu, **C.Zaharia**, I.Bucişcanu, *Chrome recovery from tannery effluents*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", secţia Chimie, tome XV, (1), 73-78, 2007
64. D.Suteu, **C.Zaharia**, D.Bilba, M.Surpteanu, *Conventional and unconventional materials for wastewater treatment*, Bulletin of the Transilvania University of Brasov, vol.IV (Multifunctional Materials. Environmental Management and Protection), 691-696, 2007
65. C.Zaharia, D.Suteu, *Optimization study of some heavy metal removal from synthetic waters using a combined mechanochemical treatment with PONILIT GT-2 anionic polyelectrolyte*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie, tome XIV, (2), 135-146, 2006
66. D.Şuteu, **C.Zaharia**, G.Rusu, *Removal of chromium ions (III) from aqueous systems by cellolignine sorbent*, Lucrări Ştiinţifice, seria Agronomie, vol. 49, 168-173, 2006
67. C.Zaharia, M.Surpăţeanu, *Study of flocculation with Prodefloc CRC 301 polyelectrolyte applied into a chemical wastewater treatment*, Ovidius University Annals of Chemistry, 17(1), 50-53, 2006
68. C.Zaharia, M.Surpăţeanu, *Municipal waste landfilling, a source of environment pollution*, Ovidius University Annals of Chemistry,17(1), 54-57, 2006
69. C.Zaharia, M.Surpăţeanu, *Environment impact and quality control on an old moldavian municipal wastes landfill*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tom LI (LV), fasc.3-4, 109-121, 2005
70. C.Zaharia, M.Surpăţeanu, M.Macoveanu, *Evaluation of Environmental Impact Generated by Waste Deposition into a Romanian Urban Landfill,* Buletinul Ştiinţific al Universităţii „Politehnica" din Timişoara, seria Chimie şi Ingineria Mediului, vol.50 (64), 1-2, 68-75, 2005
71. C.Zaharia, M.Surpăţeanu, H.Braunstein, *Optimization of photooxidation with hydrogen peroxide of some aqueous solution containing Acid Red azo dye*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", secţia Chimie, tome XII, (2), 41-50, 2004
72. M.Surpăţeanu, **C.Zaharia***, G.G.Surpăţeanu, *Cyanide photooxidation in aqueous solution with hydrogen peroxide*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tom XLIX (LIII), fasc.3-4, 235-242, 2003
73. D.Suteu, **C.Zaharia**, *The 6,6 polyamide – material with sorptive properties of ecological interest*, Analele Ştiinţifice ale Universităţii din Oradea, dedicate Sesiunii anuale de comunicări ştiinţifice de la Universitatea din Oradea, Facultatea de Ştiinţe, Oradea, fasc.Chimie-X, 81-88, 2003 (ISSN 1224-7626)
74. M.Surpăţeanu, **C.Zaharia***, *Removal of some organic substances from aqueous solutions using ozonization*, Buletinul Institutului Politehnic din Iaşi, seria Chimie şi Inginerie Chimică, tome XLIX (LII), fasc.5, 235-240, 2003
75. M.Surpăţeanu, G.G.Surpăţeanu, **C.Zaharia***, *Destruction of cyanide in aqueous solutions by oxidation with hydrogen peroxide*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie, tom X, (1), 291-296, 2002
76. C.Zaharia, M.Surpăţeanu, M.Macoveanu, *The mathematical optimization of the advanced treatment of some wastewaters based on active carbon adsorption in the presence of polyelectrolyte* (II), Bul.Inst.Polit. Iaşi, secţia: Chimie şi Inginerie Chimică, Tom XLVIII (LII), 3-4, 101-114, 2002
77. C.Zaharia, M.Surpăţeanu, M.Macoveanu, *The mathematical optimization of the advanced treatment of some wastewaters based on active carbon adsorption in the presence of polyelectrolyte*(I), Bul.Instit.Polit. Iaşi, seria: Chimie şi Inginerie Chimică, tom XLVIII (LII), 1-2, 103-114, 2002

78. C.Zaharia, M.Surpateanu, *Study of some organic non-biodegradable compounds by adsorption on activated carbon in the presence of polyelectrolytes*, Bul.Instit.Polit. Iaşi, seria Chimie şi Inginerie Chimică, tom XLVII (LI), 3-4, 125-130, 2001

79. C.Zaharia, M.Surpăţeanu, M.Macoveanu, *Optimization of some water treatment containing organic dyes (Brown Vopsider DNRL 101) by oxidation with hydrogen peroxide associated with UV irradiation*, Studia Universitatis Babeş-Bolyai, Chemia, 89-98, XLVI (1-2), 2001

80. Nicu M., **Zaharia C**., Moţoc F., Vicol M.-D., Ibănescu C., Lungu M., *Rheological behavior of some solutions of ternary copolymer acrylonitrile-vinylacetate-a-methyl-styrene*, Bul.Instit.Polit. Iaşi, seria: Chimie şi Inginerie Chimică, tom XLVII (LI), 3-4, 125-130, 2001

81. Surpateanu M., **Zaharia C**.*, *Solurile tehnogene – o solutie pentru protectia mediului* (in English: Technogenic soils – a solution for environmental protection), Lucrări ştiintifice (Scientific papers), seria Horticultura, vol. 47, 481-486, 2000

82. Zaharia C., Macoveanu M., *Separarea unor ioni ai metalelor grele printr-un procedeu combinat precipitare/floculare/flotaţie*, supliment la Analele Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie (B), tom VIII, (2), 289-300, 2000

83. Zaharia C., Surpăţeanu M., *Determination of hydrogen sulfide in air*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie (B), tom VIII, nr. 1, 207-212, 2000

84. Zaharia C., Macoveanu M., *Separation of some heavy metal ions from wastewaters using polyelectrolytes*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie (B), tom VIII, nr. 1, 199-205, 2000

85. Surpateanu M., **Zaharia C**.*, Macoveanu M., *The soil impact valuation determined by the compounds from limestone processing*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie, tom VII, (2), 395-400, 1999

86. Zaharia C., Teodosiu C., Macoveanu M., Chiţanu G., *Applications of some polyelectrolytes for the treatment of surface waters*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie, tom VII, (2), 387-394, 1999

87. Zaharia C., Macoveanu M., *A spectrophotometric method for the determination of polyelectrolytes*, Anale Ştiinţifice ale Universităţii "Al.I.Cuza", seria Chimie, tom VII, (1), 177-184, 1999

88. M.Nicu, **C.Zaharia**, F.Moţoc, M.D.Vicol, C.Ibănescu, M.Lungu, *Rheological Behaviour of Some Solutions of Ternary Copolymers Acrylonitrile-Vinylacetate α-Methyl Styrene (AN-VA-αMS)*, Bul.Instit.Polit. Iaşi, secţia: Chimie şi Inginerie chimică, tomul XLIV (XLVIII), f.1-2, 103-114, 1998

89. Zaharia C., Macoveanu M., *Types of polyelectrolytes used as flocculation agents*, Mediul Înconjurător, vol. V, nr. 1, 1994

90. Zaharia C., Macoveanu M., *The coagulation and the flocculation methods used in water and waste water treatments*, Mediul Înconjurător, vol. III, nr.4, 1992

Lucrări publicate în volume manifestări ştiinţifice din ţară

► ***Lucrări publicate în volume manifestări ştiinţifice internaţionale din ţară*** (selecţie): **33** (**21** prim/singur autor)

1. C.L. Ortovan, L. Bulgariu, C. **Zaharia***, *Application of freshwater algal-based bio-adsorbent for Remazol Rosso RB dye removal from aqueous solutions*, The XXVIII International Conference, "INVENTICA 2025 - Science of creativity", June 26th, 2025, Iasi, Romania, 24-32. ISSN 1844-7880/ ISBN 9788368412413. Doi:10.2478/9788368412413-004

2. M.A. Afrasinei, **C. Zaharia***, *Experimental design of an industrial coloured effluent treatment using a hybrid material as eco-floculant*, The XXVIII International Conference "INVENTICA 2025 - Science of creativity", June 26th, 2025, Iasi, Romania, 52-61, 2025. ISSN 1844-7880 / ISBN 9788368412413. Doi: 10.2478/9788368412413-007

3. A.Muresan, **C.Zaharia***, A.Danila, D.Suteu, E.I.Muresan, A.Popescu, L.Chirila, C.D.Radu, *Preliminary research on preparation emulsions containing essential mint oil*, Proceedings of the XXIth International Conference "INVENTICA 2018", 27-29 June, 2018, Iasi, Romania, 27-34, 2018

4. C.Zaharia*, *Wastewater treatment systems: Characteristics, performances and applicability for environmental sanitation services*, Proceedings of the 21-st International Conference of Inventics - "INVENTICA 2017", 29-30 July 2017, Iasi, Romania, 132-143, Ed.Performantica, Iasi, 2017

5. C.Zaharia, *Application of sand-based filtration systems in advanced wastewater treatment*, Proceedings book of the XX-th International Conference „Inventica 2016", June 30th-Jult 1st, Iasi, Romania, p. 195-212, Ed. Performantica, 2016. ISSN 1844-7880/ISBN 977-184-478-800-3 (www.inventica.org.ro/conference, Google Scholar)

6. C. Zaharia, Evaluation of water Pollution Status in Bahlui River (Iasi Town Area) due to Domestic and Urban Wastewater Treatment Activities, Proceedings of OPROTEH-CISA International Conference, 4-6 June 2015, Bacau, Romania, Journal of Engineering Studies and Research, 21(4), 79-88, 2015

7. C. Zaharia, *Environmental System Engineering (ESE): Modeling and Optimization of a Textile Effluent Discoloration Process by Sorption,* Proceedings of OPROTEH International Conference, 4-6 June 2015, Bacau, Romania, Journal of Engineering Studies and Research, 21(4), 68-78, 2015

8. D.Suteu, **C.Zaharia***, Utilization of apple seeds as adsorbent for removal of dyes from textile waste waters*, International Symposium in Knitting and Apparel – ISKA 2013, Iasi, 21 – 22 June 2013, ISSN 2069-1564 (CD), 275-279, 2013

9. D.Suteu, A.C.Blaga, **C.Zaharia**, *The removal of reactive dye onto immobilized Saccharomyces cerevisiae biomass*, The 17th International Conference – "INVENTICA 2012", 19-21 Iunie, Iasi-Romania, Ed. Performantica, Iasi, ISBN 1844-7880, 603-608, 2013

10. C.Zaharia*, D.Suteu, A.Muresan, *Textile effluent decoloration using "low cost" sorbents based on modified coal ash with lime*, The 17th International Conference – "INVENTICA 2012", 19-21 Iunie, Iasi-Romania, Ed. Performantica, Iasi, ISBN 1844-7880, 671-688, 2013

11. C.Zaharia*, V.Amarandei, A.Muresan, *The preliminary study of decoloration by sorption onto modified coal ash with lime of a real textile effluent*, Proceeding of International Conference of Applied Sciences – CISA, Bacau, 15-18may 2013, 115-121, Ed. Alma Mater, Bacau, 2013

12. C.Zaharia*, D.Suteu, *Modeling and optimization of a real textile effluent treatment by sorption onto coal ash as 'low cost' sorbent*, Proceeding of International Conference of Applied Sciences – CISA, Bacau, 15-18 may 2013, 107-114, Ed. Alma Mater, Bacau, 2013

13. C.Zaharia*, D.Suteu, *Comparative overview of chemical processes in water of Bahlui River. (I) Coagulation-flocculation processes,* Proceeding of International Conference of Applied Sciences – CISA, Bacau, 15-18 may 2013, 97-114, Ed. Alma Mater, Bacau, 2013

14. D.Suteu, **C.Zaharia**, M.Badeanu, L.Rusu, *Preliminary studies about dyes retention from textile wastewaters onto apple wastes*, Proceeding of International Conference of Applied Sciences – CISA, Bacau, 15-18 may 2013, 36-41, Ed. Alma Mater, Bacau, 2013

15. C.Zaharia*, R.Diaconescu, *Evaluation of the air quality in an urban residential site. A case study*, Volum: Conservarea si restaurarea patrimoniului cultural (II) (N.Vornicu, Editor), volum XII (II), Ed. Doxologia, Iasi, ISSN 2286-1459, 265-279, 2013 (Dedicat lucrarilor prezentate la Simpozonul International "Conservarea si Restaurarea Patrimoniului Cultural", organizat de Centrul Mitropolitan de Certetari T.A.B.O.R., Iasi-Romania)

16. V.D.Diaconescu, D.Luca, **C.Zaharia**, *Electromagnetic forming (EMF) – an ecological and clean processing technology*, Volum: Conservarea si restaurarea patrimoniului cultural (II) (N.Vornicu, Editor), volum XII (II), Ed. Doxologia, Iasi, ISSN 2286-1459, 251- 256, 2013 (Dedicat lucrarilor prezentate la Simpozonul International "Conservarea si Restaurarea Patrimoniului Cultural", organizat de Centrul Mitropolitan de Certetari T.A.B.O.R., Iasi-Romania)

17. C.Zaharia*, *Environmental Impact Estimation of Some Individual and Combined Textile Effluent Treatment by the Global Pollution Index*, The 16th International Conference – "INVENTICA 2012", 13-15 Iunie, Iasi-Romania, Ed. Performantica, Iasi, ISBN 1844-7880, pp.546-555, 2012

18. D.Suteu, A.C.Blaga, **C.Zaharia**, *Biomass Based on Saccharomyces cerevisiae as Biosorbent for Reactive Dyes Removal from Aqueous Medium*, The 16th International Conference – "INVENTICA 2012", 13-15 Iunie, Iasi-Romania, Ed. Performantica, Iasi, ISBN 1844-7880, pp.463-468, 2012

19. D.Suteu, **C.Zaharia**, G.Rusu, *Treatment of textile colored effluents using sorption onto industrial cellolignin wastes*, Proceeding of the International Conference ISKA, Iasi, 2010, ISSN 2069-1564 (CD,5 pg.)

20. A.Cerempei, S.Sunca, R.Muresan, **C.Zaharia**, A.Muresan, *Antibacterial treatments on cotton fabrics*, Proceeding of the 14th International Conference of Inventics „INVENTICA 2010", 9-11June 2010, Iasi, Romania, 526-532, 2010, ISBN 978-973-307194, Ed.Performantica, Iasi (coord. Plahteanu Boris) (www.inventica.org.ro)

21. D.Suteu, **C.Zaharia**, G.Rusu, E.Muresan, *Sorption of Brilliant Red HE-3B dye onto modified coal ashes. Equilibrium and kinetic studies*, Proceeding of the 14th International Conference of Inventics „INVENTICA 2010", 9-11 June 2010, Iasi, Romania, 271-281, 2010, ISBN 978-973-307194, Ed.Performantica, Iasi (www.inventica.org.ro)

22. D.Suteu, G.Rusu, **C.Zaharia**, *Removal of reactive dye Orange 16 from aqueous solution by sorption onto sawdust*, Proceeding - a XXX-a Conferinţă Internaţională de Inventică „Cercetări şi Tehnologii Inovative Performante", june 4-6, 2009, Iaşi-Romania, 670-675, 2009 (ISBN 978-973-7306-104)

23. C.Zaharia, *Energia regenerabilă – perspective, tendinţe şi provocări în Romania*, Volum de lucrări, Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a V-a, „*Materiale şi procese inovative*", 19-21 noiembrie 2008, Iaşi, 472-477, 2008 (ISBN 978-973-621-255-0)

24. C.Zaharia, *Dezvoltarea durabilă – principii, eco-capacitate, eco-eficienţă, eco-echitate, eco-condiţionalitate*, Volum de lucrări, Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a V-a, „*Materiale şi procese* inovative", 19-21 noiembrie 2008, Iaşi, 491-496, 2008 (ISBN 978-973-621-255-0)

25. C.Zaharia, *Education into energy field applied into the high education program – Environmental Engineering*, Proceedings of the 7th International World Energy System Conference,June 30–July 2, 2008, Iasi, p.35, 2008 (5 pp.,CD, ISSN 1198-0729)

26. C.Zaharia*, L.Costachescu, *Solar energy – perspectives, tendencies and challenges in Romania*, Proceedings of the 7th International World Energy System Conference, June 30 – July 2, 2008, Iasi, p.24, 2008 (5 pp., CD, ISSN 1198-0729)

27. C.Zaharia*, M.Surpăţeanu, M.Macoveanu, *The environmental impact and risk assessment of a municipal waste landfill against the water quality*, Proceeding of International Conference: Disaster and Pollution Monitoring, 2nd edition, Iaşi, november 17-19, 275-282, 2005 (ISBN 973-730-124-2, Ed.Performantica, Iaşi, 2005)

28. M.Surpăţeanu, **C.Zaharia***, *Destruction of phenol in aqueous solutions by advanced oxidation process with hydrogen peroxide*, XIV-th Roumanian International Conference on Chemistry and Chemical Engineering Proceedings – RICCCE 14, Bucharest, 22-24 septembrie 2005, volume 4: Inorganic Chemistry and Environmental Protection, S06-120-S06-127, 2005 (ISBN 973-718-284-7, Ed. Printech, Bucureşti, 2005)
29. C.Zaharia*, M.Surpăţeanu, *Evaluation of environmental impact generated by the urban waste deposition into a moldavian county*, XIV-th Roumanian International Conference on Chemistry and Chemical Engineering Proceedings – RICCCE 14, Bucharest, 22-24 septembrie 2005, volume 4: Inorganic Chemistry and Environmental Protection, S06-112-S06-119, 2005 (ISBN 973-718-284-7 , Ed. Printech, Bucureşti, 2005)
30. M.Surpăţeanu, **C.Zaharia***, *Studies on the destruction of some aqueous solutions of azo organic dyes (Brown Vopsider DMG 218) by oxidation with hydrogen peroxide associated with UV irradiation*, XII-th Roumanian International Conference on Chemistry and Chemical Engineering Proceedings – RICCCE 12, Bucureşti, 13-15 septembrie 2001, volume: Quality Control and Analytical Chemistry, Bucureşti, 223-233, 2001 (ISBN 973-652-380-2, Ed.Printech, Bucureşti, 2001)

► ***Lucrări publicate în volume manifestări ştiinţifice naţionale din ţară*** (selecție): **5** (4 prim/singur autor)

1. C.Zaharia, *Energia regenerabilă – perspective, tendinţe şi provocări în Romania*, Volum de lucrări, Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a V-a, „*Materiale şi procese inovative*", 19-21 noiembrie 2008, Iaşi, 472-477, 2008 (ISBN 978-973-621-255-0)
2. C.Zaharia, *Dezvoltarea durabilă – principii, eco-capacitate, eco-eficienţă, eco-echitate, eco-condiţionalitate*, Volum de lucrări, Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a V-a, „*Materiale şi procese* inovative", 19-21 noiembrie 2008, Iaşi, 491-496, 2008 (ISBN 978-973-621-255-0)
3. C.Zaharia, M.Surpăţeanu, M.Macoveanu, *Optimization of some water treatment containing organic dyes (Brown Vopsider DNRL 101) by oxidation with hydrogen peroxide associated with UV irradiation*, Volum Simpozion "30 de ani învăţământ de inginerie chimică la Cluj-Napoca", 6-8 septembrie 2001, Cluj Napoca (ISBN 973-99821-8-2, 8 pp., CD), **2001**
4. M.Surpăţeanu, **C.Zaharia**, *Studies on the destruction of some aqueous solutions of organic dyes (Brown Vopsider DNRL 101) by oxidation with hydrogen peroxide associated with UV irradiation*, Volum Simpozion "30 de ani învăţământ de inginerie chimică la Cluj-Napoca", 6-8 septembrie 2001, Cluj Napoca (ISBN 973-99821-8-2, 7 pp., CD), **2001**
5. C.Zaharia, M.Surpăţeanu, *Ecologizarea haldelor de deşeuri prin recultivare (inierbare)*, Volumul cu Lucrările celei de a XVI-a Conferinţe Naţionale pentru Ştiinţa Solului, vol.III, Suceava, 23-28 august 2000, Ed.Universităţii "Al.I.Cuza", Iaşi, 274-279, **2001**

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B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS

1. Ungureanu Adrian, **Catrinescu Cezar**-Florin, *Cataliză și materiale catalitice*, Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024
2. Gavrilescu M. (coordonator), Diaconu M., Bulgariu L., Volf I., **Catrinescu C.**, Smaranda C., Cozma P., Hlihor R.M.**,** Ghinea C., Apostol L. C., Comăniță E.D., Roșca M., Vasilică S.I., 2019, *Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului*, Editura Performantica, Iași, România, 2019, ISBN 978-606-685-490-4., 252 pg.
3. Cezar Catrinescu, *Procese catalitice de epuarare a apelor uzate,* Editura Politehnium, Iasi, 2008,202 pg., ISBN 978-973-621-228-4

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Cezar Catrinescu, Introducere în ştiinta materialelor – structura materialelor, Tipografia Universitatii Tehnice "Gheorghe Asachi " din Iasi, 2008, 124 pg ;
2. Cezar Catrinescu, Adela Buburuzan, Introducere în ştiinta materialelor, Aplicaţii – structura materialelor, Tipografia Universitatii Tehnice "Gheorghe Asachi " din Iasi, 2008, 88 pg

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Stiinta Materialelor **curs** – disponibil la: https://tuiasiro.sharepoint.com/sites/StiintaMaterialelorIM/Class%20Materials/Forms/AllItems.aspx?id=%2Fsites%2FStiintaMaterialelorIM%2FClass%20Materials%2Fcatrinescu%5FcursSM%5FvI%2Epdf&parent=%2Fsites%2FStiintaMaterialelorIM%2FClass%20Materials&p=true&ga=1 catrinescu_cursSM_vI.pdf

2. Cataliza in protecția mediului curs – disponibil la: https://tuiasiro.sharepoint.com/sites/Managementecologiccopy/Class%20Materials/Forms/AllItems.aspx?id=%2Fsites%2FManagementecologiccopy%2FClass%20Materials%2FCurs%2FCataliza%5F2024%2Epdf&parent=%2Fsites%2FManagementecologiccopy%2FClass%20Materials%2FCurs&p=true&ga=1 Cataliza_2024.pdf

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Mihaela Bectoraș, Cezar Catrinescu, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Adrian Ungureanu, *Unpromoted copper supported mesoporous silica nanocatalysts for the selective hydrogenation of biomass-derived levulinic acid to γ-valerolactone*, acceptat la revista Biomass & Bioenergy (Q1, Elsevier) pe data de 26.09.2026
2. Ungureanu A., Bectoraș M., Ciotonea C., Gennequin C., Royer S., **Catrinescu C**., (2025), Iron oxide nanoparticles confined in SBA-15 via melt infiltration as efficient Fenton-like catalysts for lindane degradation, Journal of Environmental Chemical Engineering, 13, 120462. IF-7,2 Q1
3. Ciotonea C., Wei Y., Ungureanu A., Catrinescu C., Gardol O., Mamede A.-S., Dumeignil F., Paul S., Jalowiecki-Duhamel L., Royer S. (2023). Ni(0) Ex-Phyllosilicates as Efficient and Stable Low Temperature CH4 Dry Reforming Catalyst, ChemCatChem, 15 (14), e202300245 IF=4.5 Q2
4. Teles, C. A., Ciotonea, C., Gomes, N., Gonçalves, V. O. O., Ungureanu, A., Catrinescu, C., Richard, F. (2022). Hydrodeoxygenation of m-cresol over Pd/Al-SBA-15 catalysts: Effect of al content on the deoxygenation reaction pathways. Applied Catalysis A: General, 641, art. no. 118686 IF=5.5 Q2
5. Ciotonea, C., Chirieac, A., Dragoi B., Catrinescu C., E., Royer, Ungureanu, A. (2022). Cu–Ga2O3 nanoparticles supported on ordered mesoporous silica for the catalytic hydrogenation of cinnamaldehyde, Comptes Rendus Chimie, 25 (S3), 1-14
6. Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., **Catrinescu, C**., Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using activated carbon modified with N-doped TiO2, (2020) Process Safety and Environmental Protection, 138, pp. 324-336. IF=7.8 Q1
7. Ungureanu, A., Chirieac, A., Ciotonea, C., Mazilu, I**., Catrinescu, C**., Petit, S., Marceau, E., Royer, S., Dumitriu, E., Enhancement of the dispersion and catalytic performances of copper in the hydrogenation of cinnamaldehyde by incorporation of aluminium into mesoporous SBA-15 silica, (2020) Applied Catalysis A: General, 598, art. no. 117615
8. Dechézelles, J.-F., Ciotonea, C., **Catrinescu, C.,** Ungureanu, A., Royer, S., Nardello-Rataj, V., Emulsions Stabilized with Alumina-Functionalized Mesoporous Silica Particles, (2020) Langmuir, 36 (12), pp. 3212-3220 IF=3.9 Q2
9. Chen, S., Ciotonea, C., Ungureanu, A., Dumitriu, E., **Catrinescu, C.,** Wojcieszak, R., Dumeignil, F., Royer, S. Preparation of nickel (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds using melt infiltration (2019), Catalysis Today, 334, 48-58 IF=5.3 Q1
10. Teodorescu-Soare, C.T., **Catrinescu, C**., Dobromir, M., Stoian, G., Arvinte, A., Luca, D., Growth and characterization of TiO2 nanotube arrays under dynamic anodization.

Photocatalytic activity (2018) Journal of Electroanalytical Chemistry, 823, pp. 388-396 IF=4.5 Q1

11. Apopei, P., **Catrinescu, C***., Teodosiu, C., Ungureanu, A., Royer, S., Selective dissolution of TiO2 crystalline phases: Physicochemical characterization and photocatalytic activity(2018) Comptes Rendus Chimie, 21 (3-4), pp. 382-390.
12. Ciotonea, C., B. Dragoi, A. Ungureanu , **C. Catrinescu**, , S. Petit, H. Alamdari, E. Marceau, E. Dumitriu and S. Royer, Improved dispersion of transition metals in mesoporous materials through a polymer assisted melt infiltration method, (2017) Catalysis Science and Technology, 7 (22), pp. 5448-5456 Q1IF=5 Q2
13. Ciotonea, C., Mazilu, I., Dragoi, B., Catrinescu, C., Dumitriu, E., Ungureanu, A., Alamdari, H., Petit, S., Royer, S. Confining for stability: Heterogeneous catalysis with transition metal (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds(2017) ChemNanoMat, 3 (4), pp. 214-222. IF=3.8 Q2
14. **Catrinescu**, C., C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes (2017) Environmental Engineering and Management Journal, 16 (4), pp. 765-777.
15. Mazilu, I., Ciotonea, C., Chirieac, A., Dragoi, B., Catrinescu, C., Ungureanu, A., Petit, S., Royer, S., Dumitriu, E., Synthesis of highly dispersed iron species within mesoporous (Al-)SBA-15 silica as efficient heterogeneous Fenton-type catalysts (2017) Microporous and Mesoporous Materials, 241, pp. 326-337 IF=5.2 Q1
16. M.M.L. Ribeiro Carrott, I.P.P. Cansado, P.J.M. Carrott, P.A. Russo, P. Castilho, C. Fernandes, **C. Catrinescu**, C. Breen, Porosity in ion-exchanged and acid activated clays evaluated using n-nonane pre- Adsorption, Micropor. Mesopor. Mat. (2016), 238-247 IF=5.2 Q1
17. **C. Catrinescu**, C. Fernandes, P. Castilho and C. Breen, Selective methoxylation of a-pinene to a-terpinyl methyl ether over Al^{3+} ion-exchanged clays, Appl. Catal. A: General, 489 (2015) 171-179
18. Apopei, P., **Catrinescu***, C., Teodosiu C., Royer, S., Mixed-phase TiO_2 photocatalysts: crystalline phase isolation and reconstruction, characterization and photocatalytic activity in the oxidation of 4-chlorophenol from aqueous effluents, Appl. Catal. B: Environmental, 160-161(1), 374-382, 2014
19. **Catrinescu, C**., Fernandes, C., P. Castilho, P.A. Russo, M.R. Carrott and C. Breen, Selective methoxylation of limonene over ion-excahnged and acid activated clays, Appl. Catal. A: General, 467 (2013) 38-46
20. **Catrinescu, C**., Arsene, Apopei, P., D. Teodosiu, C., Degradation of 4-chlorophenol from wastewater through heterogeneous Fenton and photo-Fenton process, catalyzed by Al-Fe PILC, Appl. Clay Sci., 58, 96-101 (2012)
21. Arsene, D., Musteret, C.P., **Catrinescu, C**., Apopei, P., Barjoveanu, G., Teodosiu, C. Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management Journal, 10 (12) , 1967-1976
22. **Catrinescu, C.,** Environmental assesment laboratory, Environmental Engineering and Management Journal 10 (9), 1310, 2011
23. **Catrinescu, C**., Arsene, D. Teodosiu, C., Catalytic Wet Hydrogen Peroxide Oxidation of para-Chlorophenol over Al/Fe Pillared Clays (AlFePILCs) Prepared from Different Host Clays, Appl. Catal. B: Environmental, 101, 451-460, 2011

24. Buburuzan, A.M., Macoveanu, M., Cojocaru, C., **Catrinescu, C**., Experimental design to optimise the removal efficiency of o-xylene from gaseous flux by adsorption, Journal of Environmental Protection and Ecology 11 (2), 623-634, 2010
25. Buburuzan, A.M., **Catrinescu, C**., Macoveanu, M., Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon, Environmental Engineering and Management Journal 9 (1), 125-132, 2010
26. Arsene, D., **Catrinescu, C***., Drăgoi, B., Teodosiu, C., Catalytic wet hydrogen peroxide oxidation of 4-chlorophenol over iron-exchanged clays, Environmental Engineering and Management Journal 9 (1), 7-16, 2010
27. Apetrei, R., **Catrinescu, C**., D. Mardare, C.M. Teodorescu, D. Luca, Photo-degradation activity of sputter-deposited nitrogen-doped titania thin films, Thin Solid Films, 518 (4), 1040-1043, 2009
28. Apreutesei, R. E. , **Catrinescu, C**., Teodosiu,C., Studies regarding phenol and 4-chlorophenol sorption by surfactant modified zeolites, Environmental Engineering and Management Journal, 8 (4), 651–656, 2009
29. Apreutesei, R. E. , **Catrinescu, C.,** Ungureanu, A. Teodosiu,C., Removal of 4-chlorophenol by surfactant modified zeolites and surfactant modified alkali-treated natural zeolites, Environmental Engineering and Management Journal, 8 (5), 1053 – 1060, 2009
30. Neamtu, M., Ciumasu, I.M., Costica, N., Costica, M., Bobu, M., Nicoara, M., **Catrinescu, C**., Becker van Slooten, K., de Alencastro, L.F., Chemical, biological, ecotoxicological assesment of pesticides and persistent organic pollutants in the bahlui river, Romania, Env. Sci. Pollut. Res.,16 Suppl 1, S76-85, 2009
31. Buburuzan Haleta, A.M., **Catrinescu, C.,** Macoveanu, M., Adsorption of n-hexane vapors onto non-functionalized hypercrosslinked polymers (Hypersol Macronet) and activated carbon: equilibrium studies, Environmenatal Engineering and Management Journal, 8 (1), 173-181, 2009
32. Buburuzan Haleta, A.M., **Catrinescu, C.**, Macoveanu, M, Adsorption of n-hexane vapors onto non-functionalised hypercrosslinked polymers (Hypersol-MacronetTM) and activated carbon: Thermodynamic and kinetic studies, Environmenatal Engineering and Management Journal, 8 (2), 259-265, 2009
33. Ungureanu,A., Dragoi, B., Chirieac,A., **Catrinescu, C**., Dumitriu,E., Synthesis of highly ordered titanium-containing SBA-15 mesoporous silicas for catalytic eco-friendly oxidations, Environmental Engineering and Management Journal, 7 (3), 255-262, 2008
34. Apreutesei, R. E. , **Catrinescu, C***., Teodosiu, C., Surfactant-modified natural zeolites for environmental applications in water purification, Environmental Engineering and Management Journal, 7 (2), 149 – 161, 2008
35. Fernandes, **C. Catrinescu**, P. Castilho, P.A. Russo, M.R. Carrott and C. Breen, Catalytic conversion of limonene over acid activated Serra de Dentro (SD) bentonite, Appl. Catal. A: General, 318 (2007) 108-120
36. **Catrinescu, C.** and Teodosiu, C., Wet Hydrogen Peroxide Catalytic Oxidation of Parachlorophenol over Clay based Catalysts, Environmental Engineering and Management Journal, 6 (5), 405-412, 2007
37. **C. Catrinescu**, P. Fernandes, C. Castilho, M. Breen, M. Carrott, *Porto Santo Clays as environmentally friendly catalysts for the conversion of renewable terpene feedstocks.*

Limonene aromatization to p-cymene, Environmental Engineering and Management Journal, 5 (3), pp. 275-284, 2006

38. **C. Catrinescu**, C. Fernandes, P. Castilho, C. Breen, Influence of exchange cations on the catalytic conversion of limonene over Serra de Dentro (SD) and SAz-1 clays. Correlations between acidity and catalytic activity/selectivity, Appl. Catal. A: General, 311 (2006) 172-184
39. **C. Catrinescu**, P. Fernandes, C. Castilho, M. Breen, M. Carrott, Porto Santo Clays as environmentally friendly catalysts for the conversion of renewable terpene feedstocks. Limonene aromatization to p-cymene, Environmental Engineering and Management Journal, 5 (3), pp. 275-284, 2006
40. M. Neamtu, **C. Catrinescu**, and A. Kettrup, Effect of dealumination of Iron (iii) - Exchanged commercial available zeolites for oxidation of reactive yellow 84 azo dye in the presence of hydrogen peroxide, Applied Catalysis B: Environmental 51 (2004) 149-157
41. M. Neamtu, C. Zaharia, **C. Catrinescu**, A. Yediler, M. Macoveanu and A. Kettrup, Fe-exchanged Y zeolite as catalyst for wet peroxide oxidation of reactive azo dye Procion Marine H-EXL, Applied Catalysis B: Environmental, 78(2), 2004, 287-294
42. **C. Catrinescu,** C. Teodosiu, M. Macoveanu, J. Miehe-Brendle, R. Le Dred, Catalytic wet peroxide oxidation of phenol over Fe-exchanged pillared beidellite, (2003) Water Research 37 (5), 1154-1160
43. **C.Catrinescu**, M.Neamtu, Ayfer Yediler, M.Macoveanu, A.Kettrup, *Mixed Al-Fe pillared bentonite as catalyst for the oxidation of reactive yellow 84 azo dye by H_2O_2*, Buletinul Institutului Politehnic Iasi, Tomul XLIX (LIII), Fasc 1-2, 2003, 81-87
44. Azzouz , D. Messad, D. Nistor, **C. Catrinescu**, A. Zvolinschi and S. Asaftei, Vapor phase aldol condensation over fully ion-exchanged montmorillonite-rich catalysts, Applied Catalysis A: General, 241 (1-2), 2003, 1-13
45. **C. Catrinescu**, M. Neamtu, M. Macoveanu, A. Yediler and A. Kettrup, *Catalytic wet peroxide oxidation of reactive dye RY-84 over Fe-exchanged Y zeolite*, Environmental Engineering and Management Journal, 1 (2), pp. 177-186, 2002
46. **C. Catrinescu**, C. Teodosiu, M. Macoveanu, *Iron containing pillared clays as heterogeneous Fenton-type catalysts for the oxidation of phenol in wastewaters*, Environmental Engineering and Management Journal, 1(4), pp. 567-575, 2002
47. Dumitriu, V. Hulea, Ioana Fechete, **C. Catrinescu**, C. Guimon, J.F. Lacaze and Aline Auroux, Prins condensation of isobutylene and formaldehyde over Fe-silicates of MFI structure, Appl. Catal. A, 181, 15-28 (1999)
48. E. Dumitriu, V. Hulea, C. Chelaru, **C. Catrinescu**, D. Tichit and R. Durand, Influence of the acid-base properties of solid catalysts on the condensation of formaldehyde and acetaldehyde, Appl. Catal. A: General 178(2),145-157 (1999)
49. V. Hulea, D. Tichit, **C. Catrinescu,** E. Dumitriu, *Vapour-phase condensation of aldehydes over hydrotalcite*, Anal. Univ. "Al. I. Cuza", Tom V, s. Chimie, 185-192, (1997)

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Azzouz, E. Dumitriu, V. Hulea, **C. Catrinescu**, G. Carja, *Pillared clays as catalysts for the condensation reactions of aldehydes. I. Synthesis of pillared clays and their catalytic behaviour for the aldol condensation*, Progress in Catalysis, 5(1), 9-18, (1996)

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Cezar Catrinescu, Adrian Ungureanu, Advanced Oxidation Processes: Catalysts for Water Reuse in the Circular Economy, 13th International Conference on Environmental Engineering and Management (ICEEM), September 17-20, 2025, Iasi, Romania
2. **Catrinescu, Cezar**; Ungureanu, Adrian; Bectoraș, Mihaela; Ursu, Ana; Ciotonea, Carmen; Royer, Sebasten; Fenton-like oxidation of lindane over iron oxide nanocatalysts conned within the intra-wall pores of SBA-15 7th International Advanced Oxidation Processes, 8-10 aprilie 2025, Frankfurt
3. Mihaela Bectoraș, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Copper Nanoparticles Stabilized on Mesoporous Silica via Deposition-Precipitation for the Selective Hydrogenation of Biomass-Derived Levulinic Acid To γ-Valerolactone, 13th International Conference on Environmental Engineering and Management (ICEEM), September 17-20, 2025, Iasi, Romania
4. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Cédric Gennequin, Synthesis of highly active and stable Cu nanoparticles encapsulated in mesoporous silica for hydrogenation of levulinic acid, International Congress on Catalysis, July 14-19, 2024, Lyon, France.
5. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Enhanced Oxidative Degradation of Reactive Red 120 Using Heterogeneous Fenton Catalysts based on Iron Oxide Nanoparticles Confined within the Pores of SBA-15 Silica, 7h International Conference of the Doctoral School, May 15-17, 2024, Iasi, Romania
6. Cezar Catrinescu, Mihaela Bectoras, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Heterogeneous Fenton-like Oxidation of Reactive Red 120 Azo Dye over Iron Oxide Nanoparticles Confined in SBA-15 Mesoporous Silica, 12th International Conference on Environmental Engineering and Management (ICEEM), September 13-16, 2023, Iasi, Romania.
7. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Synthesis of highly active and stable Cu nanocatalysts encapsulated in mesoporous silica for the selective hydrogenation of levulinic acid to γ-valerolactone, 6th International Conference of the Doctoral School, May 17-19, 2023, Iasi, Romania.
8. Cezar Catrinescu, Adrian Ungureanu, Irina Mazilu, Carmen Ciotonea, Emil Dumitriu, Sébastien Royer, *Lindane removal by Fenton-like Oxidation over Iron Oxide Nanoparticles Confined in SBA-15 Mesoporous Silica*, Proceedings of the XVth International Symposium on Environment, Catalysis and Process Engineering, November 23-25, 2021, ECGP virtual, pp. 34-35.
9. Carmen Ciotonea, Shuo Chen, Cezar Catrinescu, Adrian Ungureanu, Sébastien Royer, Melt Infiltration as an efficient approach to control the localization of transition

metal(oxide) nanoparticles in porous hosts, The 17th International Congress on Catalysis, June 14-19, 2020, San Diego, USA.

10. Cezar Catrinescu, Adrian Ungureanu, Irina Mazilu, Carmen Ciotonea, Emil Dumitriu, Sébastien Royer, Lindane degradation by heterogeneous Fenton-like oxidation over iron oxide nanoparticles confined in SBA-15 mesoporous silica, 10th International Conference on Environmental Engineering and Management (ICEEM), September 18-21, 2019, Iasi, Romania.
11. Shuo Chen, Carmen Ciotonea, Robert Wojcieszak, Franck Dumeignil, Sébastien Royer, Emil Dumitriu, Adrian Ungureanu, Cezar Catrinescu, Preparation of transition metal (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds using melt infiltration, 12th International Symposium on the "Scientific Bases for the Preparation of Heterogeneous Catalysts", July 8-12, 2018, Louvain-La-Neuve, Belgium.
12. C. Ciotonea, S. Chen, C. Catrinescu, E. Dumitriu, A. Ungureanu, R. Wojcieszak, F. Dumeignil, S. Royer, A melt infiltration approach to synthesize nickel nanocatalysts encapsulated within the intra-wall pores of mesoporous supports, 4th International Conference on Chemical Engineering, 31 October – 02 November, 2018, Iași, Romania.
13. Mazilu, A. Ungureanu, A. Chirieac, B. Dragoi, C. Catrinescu, S. Royer, S. Petit, E. Dumitriu, A two-step approach to synthesize iron-containing mesoporous SBA-15 materials, 30ème Réunion Annuelle du Groupe Français des Zéolithes, 19 - 21 Mars, 2014 Domaine des Grenettes, Ile de Ré, France
14. Mazilu, A. Ungureanu, B. Dragoi, C. Catrinescu, S. Royer, E. Dumitriu, Synthesis by “pH adjusting method” and physico-chemical characterization of iron-containing mesoporous SBA-15 materials, International Symposium of The Romanian Catalysis Society, RomCat, May 29-31, 2013, Cluj-Napoca, Romania
15. Porosity of clay catalysts for biomass conversion: a comparative study, M.M.L. Ribeiro Carrott, I.P.P. Cansado, P. Castilho, P.J.M. Carrott, C. Catrinescu, C. Fernandes, C. Breen, in XXIII Encontro Nacional da SPQ, Aveiro, 2013, 75 http://hdl.handle.net/10174/10202
16. Adsorption and pre-adsorption for the detailed characterisation of clay catalysts, M.M.L. Ribeiro Carrott, I.P.P. Cansado, P.J.M. Carrott, P. Castilho, C. Catrinescu, C. Fernandes, C. Breen, in XXXIV Reunión Bienal de la Real Sociedad Española de Química, Santander, 2013, 23, ISBN: 978-84-695-8511-5. http://hdl.handle.net/10174/10180
17. Selective methoxylation of limonene over ion-exchanged and acid-activated clays, P. Castilho, C. Catrinescu, V. Spínola, C. Fernandes, M. Ribeiro Carrott, I. Cansado, C. Breen, in 9º Encontro Nacional de Catálise e Materiais Porosos, Porto, 2013, 50 http://hdl.handle.net/10174/9484
18. M. M. L. Ribeiro Carrott, I. P. P. Cansado, P. A. Russo, P. J. M. Carrott, C. Catrinescu, P. Castilho, C. Fernandes, C. Breen , Catalisadores derivados de uma argila do Porto Santo: efeito da ativação ácida na porosidade, Jornadas do CQE-2013-MC-IC , ISBN: 978-989-8550-12-5, http://hdl.handle.net/10174/9872
19. M. M. L. Ribeiro Carrott, I. P. P. Cansado, P. A. Russo, P. J. M. Carrott, C. Catrinescu, P. Castilho, C. Fernandes, C. Breen, Porosity of acid activated Porto Santo bentonites assessed by n-nonane pre-adsorption and nitrogen adsorption, in Catalysis: from the active site to the process, Symposium in honour of Ramôa Ribeiro, IST, Lisbon, 2012, pp. 28-29., http://hdl.handle.net/10174/7718

20. P. Apopei, C. Catrinescu, A. Ungureanu, D. Luca, C. Teodosiu, Photocatalytic oxidation of 4-chlorophenol over pure rutile and anatase separated from Degussa P25 TiO2 powder, International Conference of the Romanian Catalysis Society, RomCat, June 23-26, 2010, Iasi, Romania
21. R.E. Apreutesei, C. Catrinescu, A. Ungureanu, C. Teodosiu, Removal Of 4-Chlorophenol By Surfactant Modified Zeolites And Surfactant Modified Alkali-Treated Natural Zeolites, 5th International Conference Environmental Engineering and Management, September 15 – 19, 2009, Tulcea, Danube Delta, Romania
22. D. Arsene, C. Catrinescu, A. Ungureanu, C. Teodosiu, Catalytic Wet Hydrogen Peroxide Oxidation Of 4-Chlorophenol Over Iron-Exchanged Clays, 5th International Conference Environmental Engineering and Management, September 15 – 19, 2009, Tulcea, Danube Delta, Romania
23. R.E. Apreutesei, C. Catrinescu, A. Ungureanu, C. Teodosiu, Adsorption of 4-chlorphenol on surfactant modified alkali-treated natural zeolites, XIV International Clay Conference, Castellaneta Marina, Italy, June 14-20, 2009
24. Apetrei, R., , **Catrinescu, C**., Mardare, D., Teodorescu, C. M., and Luca, D., Photo-degradation activity of sputter-deposited nitrogen-doped titania thin films, 2nd International Szmposium on Transparent Conductive oxides, 22-26 Octombrie, 2008, Creta, Grecia
25. Haleta (Buburuzan) Adela, **Catrinescu, C.**, Macoveanu, M.**,** *The utilization of MACRONET polymers for the decontamination of gaseous streams containing VOCs*, Conferinţa Internaţională de inventică ”Cercetări şi Tehnologii Inovative, ediţia XX-a, Salonul Internaţional al invenţiilor, cercetării şi transferului tehnologic,ediţia a XII-1, INVENTICA 2008
26. M. Neamtu, **C. Catrinescu**, POPIASI: Chemical Assessment of the Bahlui River, in North-eastern Romania. Case Study: Pesticides and Persistent Organic Pollutants, ESTROM Final Meeting, 2 pg., Iasi, 12-16 September 2007
27. D. Luca, **C. Catrinescu**, R. Apetrei, C.M. Teodorescu, D. Mardare, V. Anita, *Photo-oxidation efficiency and surface hydrophilicity of sputter deposited nitrogen-doped titania films*, 6th Inter-Academia 2007, 2nd Inter-Academia for Young Researchers Workshop 2007, Hamamatsu Japan, September 26th – 30th, 2007.
28. **C. Catrinescu**, P.C. Castilho, C. Fernandes and C. Breen, *Selective alkoxylation of limonene over commercially available clays*, Green Chemistry, First International IUPAC Conference on Green Chemistry, Dresden, Germany, 10-15 September 2006
29. **C. Catrinescu**, J. Miehe-Brendle , C. Teodosiu, M. Macoveanu, *Fe-exchanged Al2O3 pillared synthetic beidellite as efficient catalyst in the wet hydrogen peroxide oxidation of phenolic aqueous wastes*, 13th International Congress on Catalysis, Paris 11 - 16th July, 2004
30. **C. Catrinescu**, E. Dumitriu, J. Miehe-Brendle, R. Le Dred, *The Comparison of the catalytic properties of synthetic beidellite and natural montmorilonite in Prins condensation of isobutene and formaldehyde*, EUROCLAY, Krakow, Poland, September 5-9, 1999
31. **C. Catrinescu**, E. Dumitriu, J. Miehe-Brendle, R. Le Dred, *The Comparison of the catalytic properties of synthetic beidellite and natural montmorilonite in Prins condensation of isobutene and formaldehyde*, The Clay Minerals Society, 36th Annual Meeting, USA, June 1999

32. E, Dumitriu, V. Hulea, **C. Catrinescu**, A. Azzouz, S. Kaliaguine, *Influence of the acid-base properties of solid catalyston the condensation of formaldehyde and acetaldehyde*, The Fifth National Symposium on Catalysis, Bucharest, July 9-11, 1997

33. C. Catrinescu, A. Azzouz, G. Carja, and E. Dumitriu, *Study of Aldol Condensation over pillared clays*, The Fourth Symposium "Zeolites in Modern Technology", Iasi, 23-25 Noiembrie, 1995;

J. Invenţii.

1. Bârjoveanu G., Teodosiu, C., **Catrinescu C**., Fighir D., Gavrilescu D., și Mustereț C., Brevet "Integrated process for chemical degradation and separation on semipermeable membranes for purification of waste water containing emerging pollutants", RO131271-b1, BOPI nr. 8/2018

K. Contracte de cercetare.

1. Grant PHC – Brâncuși - *Advanced catalytic nanomaterials for environmental applications (CatEnA)*, PN-IV-P8-8.3-PM-RO-FR-2024-0152, UEFISCDI, **Project member**
2. Grant GNaC-ARUT - *Sinteza, caracterizarea și utilizarea nanoparticulelor de oxid de fier, confinate în silicea mezoporoasă de tip SBA-15, pentru oxidarea Fenton a unor poluanți organici persistenți*, cod/ID: GnaC 2023_253, Granturi naționale de cercetare – Alianța Română a Universităților Tehnice, 01.02.2024-30.04.2025 (echivalentul a 10.000 euro) **director de proiect**
3. Contract nr.173/24.11.2023 – *Servicii de asistență tehnică privind modul de utilizare și funcționare al echipamentului dedicat analizei de trihalometani GC Agilent 8890*, Beneficiar APAVITAL S.A., 21-11.2023- 15.02.2024, 4000 lei + TVA, **director de contractt**
4. Proiect CNCSIS-UEFISCSU PN-III-P4-ID-PCE-2016-0683, Contract 65/12.07.2017, Exploring and Exploiting Microbial and Plant Abilities and Interactions in Environmental Bioremediation" (BIOREMIP), Director de proiect: Prof. dr. ing. Maria Gavrilescu, **membru**;
5. Proiect CNCSIS-UEFISCSU PNII-RU-TE-2012-3-0403, Nanosized metallic Catalysts Prepared in Controlled Local Environments of Mesostructured Hosts for fine Chemical Synthesis (NanoMesoChem), Director de proiect: Conf. dr. ing. Adrian Ungureanu, **membru**;
6. Proiect CNCSIS PNII-IDEI code 368/2008, *Procese combinate de epurare avansata a apelor uzate pentru eliminarea poluantilor organici persistenti si imbunatatirea biodegradabilitatii apelor uzate*, Director de proiect: Prof.dr.ing. Carmen Teodosiu, **membru**;
7. Proiect PNCDI II, Parteneriate in domenii prioritare, nr. 32-125 /01.10.2008, *Sistem suport tehnico-decizional pentru managementul durabil al apei – stediwat*, Director de proiect: Prof.dr.ing. Carmen Teodosiu, **membru**;

8. Contract de cercetare-dezvoltare, nr. 5837P/07.07.2008 „Teste fotocatalitice pe probe de fotocatalizatori pe baza de TiO_2 dopat" , Institutul Naţional de c-d pentru Fizica Materialelor Măgurele Bucureşti**, director de proiect**
9. Grant PNCDI II, „Extinderea competenţelor laboratorului de analiză şi control a factorilor de mediu în domeniul estimării, caracterizării şi valorificării resurselor regenerabile şi reciclabile prin procedee chimice şi biotehnologice MEDRESLAB", contract nr. 94/13.09.2007; 2007-2009; Director Grant: Prof. dr. ing. Irina Volf; **membru**
10. Contract de cercetare-dezvoltare 473P/2007 „Analiza emisii si imisii in atmosfera, conform impunerilor din Autorizatia de mediu" – S.C. Unirea S.A., **director proiect**
11. Grant C.N.C.S.I.S. de tip AT, nr. 6177/2000/2001 tema B7, „Epurarea apelor uzate cu conţinut ridicat de coloranţi", membru, Director proiect: Asist. Dr. M. Neamţu, **membru**;
12. Grant C.N.C.S.I.S. de tip A, Contract nr. 32259/2001, Cod 305, tema 25, „Modelarea şi simularea unor procese pentru depoluarea fluxurilor lichide, în relaţie cu transferul de proprietate", director proiect: Prof. M. Gavrilescu, **membru**,
13. Grant C.N.C.S.I.S. de tip A, Contract nr. 566/22/1997, „Valorificarea materialelor oxidice indigene prin intercalare, în vederea obţinerii de noi catalizatori eterogeni", director proiect: Prof. Emil Dumitriu, **membru**;
14. Swiss National Science Foundation (SNSF) IB6120-106996-POPASS Tema: "Chemical, Biological and Ecotoxicological Assessment of the Bahlui River, in North-Eastern Romania. Case Study: Pesticides and Persistent Organic Pollutants (POPs)" 2005-2007; Gestionat de CNMP, 30 500 CHF, 67 500 RON, Director proiect Felippe de Alencasstro (EPFL- Elveţia)
15. Grant CEEX 62/03.10.2005 RIWA-TECH Tehnologii de epurare avansata pentru recircularea efluentilor industriali, 2005-2008
16. Grant CEEX-M3-C3-12373 SIWMANET - Retea integrata pentru managementul resurselor de apa, 2006-2008, membru
17. Grant C.N.C.S.I.S. de tip AT nr. 7004/2001, B12 **„**Utilizarea catalizatorilor pe baza de argila indigena in distrugerea poluanţilor organici refractari, in prezenta apei oxigenate", 2001-2002, **Director grant**
18. FCT Project project CLAYCATS4 - Clay catalysts for biomass conversion PTDC/CTM-CER/121295/2010.
19. Swiss National Science Foundation (SNSF) IB6120-106996-POPASS Tema: "Chemical, Biological and Ecotoxicological Assessment of the Bahlui River, in North-Eastern Romania. Case Study: Pesticides and Persistent Organic Pollutants (POPs)" 2005-2007; Gestionat de CNMP, 30 500 CHF, 67 500 RON, Director proiect Felippe de Alencasstro(EPFL- Elvetia)
20. Grant SOCRATES /MOD- Management and security assesment for sustainable environment *–MASS*, 51388-IC-2004-RO-ERASMUS-MODUC-6, 2005-2007, Valoare 8000 Euro (24 luni), Director proeict, Prof.C. Teodosiu, membru
21. Contract International „Knowledge transfer and institutional capacity building for cleaner production in Romania" finantat de Swedish Institute in Stockholm, International Institute for Industrial Environmental Economics Lund-Suedia, 2003-2007, Director UTI: Matei Macoveanu, 24 000 EUR, membru
22. Contract International Bilateral Cooperation between the German Ministry of Education and Research and the Romanian Ministry of Education; and Research; ROM 99/008; Tema: "Appropriate Technologies for Minimization of Environmental Impact from

Industrial Wastewaters- Textile Industry, A Case Study" 2000-2002, Director proiect, Prof. M. Macoveanu, membru

23. ''Construyendo una Bio-Región Europea—Biopolis'' (05/MAC/2.3/. C14, funded by PIC Interreg III B, Azores—Madeira—Canarias), 2006, Director proiect, Prof. Paula Castihlo, responsabil stiintific, Grant individual de cercetare (bursă postdoctorală), obtinut prin competitie internationala;
24. FCT Project POCTI/CTM/47619/2002 Claycats Modified Porto Santo Clays for liquid phase organic reactions" (Portugal), 2005-2006, Director proiect, Prof. Paula Castihlo, Grant individual de cercetare (bursă postdoctorală), obtinut prin competitie internationala;
25. FP5 Project (HPMT-CT-2000-00006) "Structural characterisation of porous, interfacial and layered materials", Institut de Ciencia de Materials de Barcelona (CSICS), 2003, Grant individual (bursă Marie Curie) obtinut prin competitie internationala;
26. Program TEMPUS 11219-96 European – "Computer Aided Learning in Chemistry", Grant individual de cercetare, obtinut prin competitie internationala:
27. Alte contracte de cercetare-dezvoltare cu terți: 1488P/2014, 70P/2015, 826P/2016 etc.

L. Premii, distincţii.

Diploma de excelenţă şi **Medalia Inventica 2008,** la Salonul Internaţional Jubiliar al cercetării, invenţiilor şi transferului tehnologic. INVENTICA 2008, 14-24 mai 2008, Iaşi, România, pentru lucrarea : „The utilization of MACRONET polymers for the decontamination of gaseous streams containing VOCs"

Diploma de Excelenta si Medalia de Aur la Targul International de Inventii si Idei Practice INVENT-INVEST 15-18 Sept. 2016, Iasi, Romania, Cerere brevet : Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți;

Medalia de Aur - The World Exhibition on Inventions, Research and New Technologies, Brussels Innova17-19 Nov. 2016, Bruxelles, Belgia - Cerere brevet : Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți

M. Alte realizări semnificative.

Calitatea de profesor asociat invitat, pentru un semestru, cu contract de muncă, la Universitatea din Madeira, Portugalia

Data,

10.03.2026

Lista de lucrări în domeniul de studii universitare a programelor de licență și master
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A. Teza de doctorat.

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Titlul tezei: *Contributii la evaluarea impactului si riscului induse asupra mediului de activitati industriale*
Titlul: Doctor in Inginerie Chimica.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. *Environmentaltal Impact and risk assessment* (chapter), **Sluser B**, Plavan O, Teodosiu C., in book Assessing Progress toward Sustainability (eds. Teodosiu C, Hospido A., Fiore S), Elsevier Ed., **2022**.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

2. *Abordari in evaluarea impactului si riscului de mediu – o culegere de studii de caz*, Brindusa Sluser, Ed. EcoZone, Iasi, ISBN 978-606-8625-58-4, 195p (format academic), **2026**.
3. *Comunicarea si managementul relatiilor la nivel organizational*, Brindusa Sluser, Carmen Ioan, ISBN 978-606-8625-40-9, editura EcoZone, Iasi, 210p, **2024**.
4. *Integrated approach on assessment, treatment and management of environmental pollution*, Brindusa Sluser, Ed.EcoZone, ISBN 978-606-8625-38-6, 390p, **2023**.
5. *Statistical Analysis and Integrated Approach of Air Quality Assessment* (in English), Ioana Tanasă, Brîndușa Slușer, Ed. EcoZone, ISBN 978-606-8625-35-5, 100p, **2023**
6. *Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* editori Camelia Drăghici, Brîndușa Mihaela Slușer, Cezar Petre Simion, editura Universităţii "Transilvania", Brasov, ISBN 978-606-19-1524-8, 235p, **2022**.
7. Capitol in *Recomandări de politici pentru concepţia, planificarea şi implementarea proiectelor de mediu, precum şi pentru implicarea cetăţenilor în păstrarea unui mediu curat în comunităţile rurale = Policy recommendation for the conception, planning and implementation of environmental projects as well as for the involvement of citizens in maintaining a clean environment in rural communities/ ed.: Cezar Petre Simion, Cristina Mihaela Salcă Rotaru. editura Universităţii "Transilvania", Brasov, ISBN 978-606-19-1531-6, 71p, **2022**.*
8. *Environmental impact and risk assessment: procedures and evaluation tools* (chapter), Sluser B., Teodosiu C., in book Environment as risk and emergency, coord. Philippe Burny, Calin Baciu, Camelia Botezan, Dacinia Petrescu, Grigore Vlad, editura Valea Verde, ISBN 978-606-8834-42-9, **2021**.
9. *Apa-o mica enciclopedie*, Lavinia Tofan, Carmen Paduraru, Brindusa Mihaela Sluser, Carmen Teodosiu, Ed.EcoZone Iasi, ISBN 978-606-8625-10-2, 2019, pg.151.
10. *Ghidul dirigintelui: teme informative pentru orientare vocationala*, Carmen Catalina Ioan, **Brindusa Mihaela Robu Sluser**, Alexandru Abutoaiei, Ed. EcoZone, Iasi, ISBN 978-606-8625-05-8, **2015,** pg.265

11. *Evaluari de mediu. Aplicatii*, **Brindusa Mihaela Robu**, Ed. EcoZone, Iasi, ISBN 978-973-7645-98-2, **2012,** pg.192.
12. *Managementul integrat al resurselor de apa la nivel de bazin hidrografic: Instrumente informationale si de comunicare*, Carmen Teodosiu (Editor), Luminita Mihaela Lupu, Florina Ungureanu, Carmen Catalina Ioan, **Brîndusa Mihaela Robu**, George Bârjoveanu, Simona Andreea Ene, Claudia Cojocariu, **2011**, Editura Politehnium, Iasi, ISBN 978-973-621-392-2, pg. 230.
13. *Informatica aplicata – caiet de laborator. Aplicatii excel in chimie si ingineria mediului*, **Brindusa Robu**, Mircea Teodor Nechita, Gabriel Dan Suditu, Editura Pim, Iasi, **2011**, ISBN 978-606-13-0220-8, pg. 50.
14. *Evaluari de mediu pentru dezvoltare durabila*, **Brindusa Robu**, Matei Macoveanu, Editura EcoZone, Iasi, **2010**, ISBN 978-973-7645-69-2, pg 266.
15. *Decontaminarea apelor poluate accidental cu hidrocarburi petroliere si ioni de metale grele, utilizand sorbenti neconventionale naturali si sintetici*, Macoveanu Matei, Bulgariu Laura, **Robu Brindusa**, Cornel Cojocaru, Editura EcoZone, Iasi, **2009**, ISBN 978-973-7645-61-6, pg. 205.
16. *Poluanţi persistenţi în mediu. I. Produse farmaceutice şi de igienă*, Florentina Anca Căliman, **Brîndușa Mihaela Robu**, Camelia Smaranda, Vasile Lucian pavel, Maria Gavrilescu (Ed.), Editura Politehnium, Iasi, **2009**, ISBN 978-973-621-280-2 , vol. I: ISBN 978-973-621-281-9, pg. 223.
17. *Poluanţi persistenţi în mediu. II. Poluanţi organici persistenţi şi coloranţi*, Florentina Anca Căliman, **Brîndușa Mihaela Robu**, Camelia Smaranda, Vasile Lucian Pavel, Maria Gavrilescu (Ed.), Editura Politehnium, Iasi, **2009**, ISBN 978-973-621-280-2, vol. II: ISBN 978-973-621-282-6, pg. 258.
18. *Poluanţi persistenţi în mediu. III. Metale grele*, Florentina Anca Căliman, **Brîndușa Mihaela Robu**, Camelia Smaranda, Vasile Lucian Pavel, Maria Gavrilescu (Ed.), Editura Politehnium, Iasi, **2009**, ISBN 978-973-621-280-2, vol. III: ISBN 978-973-621-283-3, pg. 234.
19. *Poluanţi persistenţi în mediu. IV. Identificarea, estimarea si managementul integrat al riscurilor asociate impacturilor induse in mediu de poluanti organici persistenti si metale grele*, Florentina Anca Căliman, **Brîndușa Mihaela Robu**, Camelia Smaranda, Vasile Lucian Pavel, Maria Gavrilescu (Ed.), Editura Politehnium, Iasi, **2009**, ISBN 978-973-621-280-2, vol. IV: ISBN 978-973-621-284-0, pg. 227.
20. *Managementul riscului de mediu in industria extractiva, Cornel Horaicu, Cornel Florea Gabrian, **Brindusa Robu***, Editura TipoMoldova, Iasi, 2007, ISBN 978-973-8900-98-1, pg. 140.
21. *Evaluarea impactului şi a riscului induse asupra mediului de activităţi industriale, **Brîndușa Robu***, Editura Ecozone, Iaşi, 2005, ISBN 973-7645-00-6, pg. 221.
22. *EMS in factories – The introduction of Environmental Management Systems in the metal processing and ceramic industry in Romania and The Netherlands – Report C94*, D. Ciobanu, Mihaela Hristea, D. Jansen, S. Odijk, F. Rabbering, **Brindusa Sluser** (**Robu**), P. Tanck, G. Tudorache, Editura Chemiewinkel Groningen, Olanda, 2000, ISBN 90-367-1-1343-9., pg. 100.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local. -

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Realizări (2018-2026): - format electronic (web, link)

1. Sluser Brindusa - curs *Environmental Assessments*, program masterat Environmnetal Management and Sustainable Energy, anul I, 2018-2020, MSTeams: https://teams.microsoft.com/_#/school/files/General?threadId=19%3A9a97c34abb384e53bce2447c6b7ecd8b%40thread.tacv2&ctx=channel&context=Class%2520Materials&rootfolder=%252Fsites%252FEnvironmentalAssessments%252FClass%2520Materials

2. Sluser Brindusa - curs *Evaluari de mediu pentru dezvoltare durabila*, program masterat Managementul mediului, anul I, 2018: https://teams.microsoft.com/_#/school/files/General?threadId=19%3A4f9eee7b97b04dc88a865643fd131f63%40thread.tacv2&ctx=channel&context=Class%2520Materials&rootfolder=%252Fsites%252FEvaluaridemediupentrudezvoltaredurabila%252FClass%2520Materials
3. Curs *Educatie antreprenoriala - Intreprinderi simulate*, program licenta TUIASI, anul al III-lea, 2019-2020 https://teams.microsoft.com/_#/school/files/General?threadId=19%3Aec4f045c99c74189b629a35373b31762%40thread.tacv2&ctx=channel&context=Class%2520materials&rootfolder=%252Fsites%252FPracTeh_Intreprinderisimulate%252FShared%2520Documents%252FGeneral%252FClass%2520materials
4. Curs *Evaluarea impactului indus asupra mediului*, anul al IV-lea IPMI, 2019-2020 https://teams.microsoft.com/_#/school/files/General?threadId=19%3Ac0bbf73534944970b105c5f88823a6eb%40thread.tacv2&ctx=channel&context=Class%2520Materials&rootfolder=%252Fsites%252FEvaluareaimpactuluiasupramediului%252FClass%2520Materials
5. Curs *Politici si strategii pentru dezvoltare durabila*, curs, programul de masterat Managementul Mediului, anul al II-lea, 2019 https://teams.microsoft.com/_#/school/files/General?threadId=19%3Ac46d8d112c51493a81bd19a82f090f69%40thread.tacv2&ctx=channel&context=Class%2520Materials&rootfolder=%252Fsites%252FPoliticisistrategiidemediu%252FClass%2520Materials
6. Curs *Managementul relatiilor interpersonale*, anul al II-lea, asterat MM, 2020-2022, MSTeams.
7. Curs *Comunicare*, anul I, IPMI, 2020, 2022, MSTeams.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articole publicate in reviste stiintifice indexate, cu factor de impact – ISI

1. *Status and perspectives of sustainability indicators applied in the water sector, Daniela Fighir, Wei Wang, Taher Ahmadi, Brindusa Sluser,* **Current Opinion in Environmental Sustainability**, 2026, 81, 101647.
2. *Aerosol Optical Depth And Pollution Risk Assessment: Integrated Approach For A Metropolitan Environment, Ioana Tanasa, Marius Cazacu, Dumitru Botan, Wei Wang, Brindusa Sluser, journal Cleaner Engineering and Technology, under review.*
3. *Life Cycle Assessment Of Alternative Road Concrete Recipes Incorporating Industrial By-Products, Brindusa Sluser, Bogdan Luca, Elena-Diana Ungureanu-Comanita, George Barjoveanu, 2026,* Environmental Engineering and Management Journal, 25(4), pp. 943–958.
4. *A Comprehensive Review of Instruments and Indicators for Sustainability Assessment of Drinking Water Treatment Plants, Daniela Fighir, Mihail Dorus, Malek Al Refai, Brindusa Sluser, Carmen Teodosiu, under review.*
5. *Integrating environmental auditing into corporate sustainability frameworks: a comparative analysis across Turkyie, Moldova, and Romania, Ali Kestane, Luminita Diaconu, Brindusa Sluser*, Environmental Engineering and Management Journal, 2026, 25(1), pp. 207–227.
6. *From Aerosol Optical Depth to Risk Assessment: A Novel Framework for Environmental Impact Statistics of Air Quality Using AERONET*, Ioana Tanasa, Marius Cazacu, Dumitru Botan, John D. Atkinson, Viktor Sebestyen, Brindusa Sluser, **Environments** 2025, 12, 285. https://doi.org/10.3390/environments12080285 .
7. *Coloured Wastewater Treatment by Clathrate Hydrate Technique*, Mustafa S. Mohammed, Shurooq T. Al-Humairi, Riyadh S. AL-Mukhtar, Saja Mohsen Alardhi, A. Aliyu, Ali Dawood Salman, Miklos Jakab, Forat Yasir AlJaberi, Brindusa Sluser* and Igor Cretescu, **Water** 2023, 15(12), 2227; https://doi.org/10.3390/w15122227.

8. *New Low-Cost Composite Silica Based with Application in Organic Dye Removal from Water*, Ali Dawood Salman, Thamer Adnan Abdullah, Tatjana Juzsakova, Rashed Taleb Rasheed, Balázs Zsirka, Rasha R. Al Shaikhly, Brindusa Sluser, Igor Cretescu, **Materials** 2023, 16(4), 1618; https://doi.org/10.3390/ma16041618.
9. *Air quality integrated assessment: environmental impacts, risks and human health hazards*, I.M.Tanasa, M.M.Cazacu, B.M.Sluser, special issue Exposure to Environmental Pollutants and Effects on Human Health, **Appl. Sci.** 2023, 13(2), 1222; https://doi.org/10.3390/app13021222.
10. *Priority pollutants effects on aquatic ecosystems evaluated through ecotoxicity, impact, and risk assessments*, R.Zait, D.Fighir, B.Sluser, O.Plavan, C.Teodosiu, **Water** 2022, 14(20), 3237; https://doi.org/10.3390/w14203237.
11. *Scandium Recovery Methods from Mining, Metallurgical Extractive Industries, and Industrial Wastes*, A.D. Salman, T. Juzsakova, S. Mohsen, T.A. Abdullah, P.C. Le, V. Sebestyen, B. Sluser, I. Cretescu, **Materials**, 2022, 15, 2376. https://doi.org/10.3390/ma15072376 (IF=4.7)
12. *Priority Pollutants Monitoring and Water Quality Assessment in the Siret River Basin, Romania*. Zait, R.; Sluser, B.; Fighir, D.; Plavan, O.; Teodosiu, C., **Water**, 2022, 14, 129. https://doi.org/10.3390/w14010129 (IF=3.103)
13. *Polystyrene-Fe3O4-MWCNTs Nanocomposites for Toluene Removal from Water*, Abdullah T.A, Juzsakova T, Rasheed R.T, Salman A.D, Sebestyen V, Domokos E, Sluser B, Cretescu I, **Materials** 2021, 14, 5503. https://doi.org/10.3390/ma14195503 (ISI, IF=4.7)
14. *Environmental monitoring and impact assessment of Prut river cross-border pollution*, Neamtu R., Sluser B., Plavan O, Teodosiu C., **Environmental Monitoring and Assessment Journal**, (2021),https://doi.org/10.1007/s10661-021-09110-1 (ISI, IF= 2.802).
15. *Statistical approach of environmental quality management and political decision-making at local level: case study Iaşi city, Romania*, Grecu S.P., Mihailescu B.C., Sluser B.M, **Environmental Engineering and Management Journal**, 2020, 19(3), (ISI, IF=0.916).
16. *Synthesis and characterisation of a binder cement replacement based on alkali activation of fly ash waste*, Cretescu, I., Harja, M., Teodosiu, Isopescu, D.N., Chok, M.F., Sluser, B.M., Salleh, M.A.M., **Process Safety and Environmental Protection**, 2018, Volume 119, p 23-35 (ISI, IF=1.514)
17. *Postclosure influence of emissions resulted from municipal waste dump sites: a case study of the north-east region of Romania,* Brînduşa Mihaela Slușer, Ana Maria Șchiopu, Cătălin Bălan, Marian Pruteanu, **Environmental Engineering and Management Journal**, 2017, 16(4) (ISI, IF=1.186).
18. *Modelling equilibrium data for Cd (II) adsorption by peat using non-linear regression analysis, Catalin Balan, Brindusa (Sluser) Robu, Petru Bulai, Doina Bilba,* ***Environmental*** **Engineering and Management Journal**, 2017, 16(3), 569-581 (ISI, IF=1.186).
19. *Environmental Assessment of Municipal Wastewater Discharges: A Comparative Study of Evaluation Methods*, Teodosiu C*., Barjoveanu G., Robu (Sluser) B., Ene (Popa) S.A., Trofin O., **The International Journal of Life Cycle Assessment**, 2016, 21(3), 395-411, DOI: 10.1007/s11367-016-1029-5 (IF=3.988, ISI Web of Science).
20. *Monitoring of Radioactivity Level in Autoclaved Aerated Concrete Produced in Romania and Risk Assessment*, Dorina Nicolina Isopescu, Brindusa Mihaela Sluser (Robu), Fotini Noli, Raimondas Buckus, Igor Cretescu, **Environmental Engineering and Management Journal**, (2016), 15(4), 935-943 (ISI, IF 1.86).
21. *Environmental impact and risk assessment of the main pollution sources from the Romanian Black Sea Coast*, Brindusa Robu, Oana Jitar, Carmen Teodosiu, Stefan-Adrian Strungaru, Mircea Nicoara, Gabriel Plavan, **Environmental Engineering and Management Journal**, (2015), 14(2), 331-340.
22. *Advanced quantitative environmental impact assessment: quantitative method for red mud disposal facilities*, Anett Utasi, Viktor Sebestyen, József Nemeth, Tatiana Yuzhakova,

Laszlo Diossy, Endre Domokos, Brindusa Robu, Akos Redey, Istvan Raduly, Lenke Raduly, Environmental Engineering and Management Journal, (2014), 13(9), 2295-2300, (IF 1.186)

23. *Environmental Impact and Risk Quantification Based on Selected Water Quality Indicators,*Teodosiu C, Robu B., Cojocariu C, Bârjoveanu G., (2015), Natural Hazards, 75(1), 89-105, (IF= 1.639), DOI: 10.1007/s11069-013-0637-7
24. *Advanced quantitative environmental impact assessment method*, Anett Utasi,Tatiana Yuzhakova, Viktor Sebestyen, József Nemeth, Brindusa Robu, Akos Redey, Janos Lako, Tamas Frater, Istvan Raduly, Lenke Raduly, Gabriela Popita, Environmental Engineering and Management Journal, (2013), 12(2), 305-310, (IF 1.186)
25. *Integrated approach of environmental impact and risk assessment of Rosia Montana mining area, Romania*, Lucrina Stefanescu, Brindusa Mihaela Robu, Alexandru Ozunu, (2013) Journal Environmental Science and Pollution Research, 20(11), 7719-7727, DOI 10.1007/s11356-013-1528-x (IF 2.618).
26. *Water footprint assessment in the wine making industry: A case study for a Romanian medium size production plant*, Simona Andreea Popa, Carmen Teodosiu, Brindusa Robu, Irina Volf, Journal of Cleaner Production, (2013), vol.43, p.122-135, http://dx.doi.org/10.1016/j.jclepro.2012.11.051 (IF 3.398).
27. *Sustainability in the water use cycle*, Carmen Teodosiu, George Barjoveanu, Brindusa Robu, Simona Andreea Ene, Environmental Engineering and Management Journal, *(*2012), 11 (11), 1987-2000, (IF= 1.186).
28. *Removal of Cd(II) ions from aqueous solution by retention on pine bark,* Tofan, L., Paduraru, C., Robu, B., Miron, A., Amalinei, R.L.M, Environmental Engineering and Management Journal, (2012), 11 (1), pp.199 (IF= 1.186)..
29. *Digitization of the environmental impact quantification process*, Suditu Gabriel Dan, Robu Brindusa Mihaela, Environmental Engineering and Management Journal, *(*2012), 11 (4), 841-848, (IF= 1.186).
30. *Integrated Environmental Impact And Risk Assessment Of The Agricultural And Related Industries In The Prut River Basin,* Claudia Cojocariu, George Barjoveanu, Brindusa Robu and Carmen Teodosiu, STUDIA UBB CHEMIA, (2012), 57, LVII(1), 151-167, (IF 0.231).
31. *Soil And Groundwater Cleanup: Benefits And Limits Of Emerging Technologies*, Florentina Anca Caliman, Brindusa Mihaela Robu, Camelia Betianu, Vasile Lucian Pavel, Maria Gavrilescu, Clean Techn. Environ. Policy, 13:241–268, (2011), (IF 1.12)
32. *Environmental Assessment Of Pollution With Detergents In The Prut River Basin, Romania,* Claudia Cojocariu, Brindusa Robu, George Barjoveanu, Carmen Teodosiu, AES Bioflux: Advances in Environmental Sciences – International Journal of the Bioflux Society, BDI (2011)
33. *Influence of air pollution on forest ecosystems: ecological impact of heavy metals,* Mihaela Budianu, Brindusa Robu, Matei Macoveanu, Environmental Engineering and Management Journal, 9(10), p.1401-1407, (2010) (IF 1.186)
34. *Integrated assessment of wastewater treatment plants for sustainable river basin management*, George Barjoveanu, Claudia Cojocariu, Brindusa Robu, Carmen Teodosiu, Environmental Engineering and Management Journal, 9(9), 1251-1259, (2010) (IF 1.186)
35. *Study of biodisel production from oilseed plants: II. Evaluation of biodisel production from some cultivars of rapes*, Constantin Leonte, Laura Bulgariu, Brindusa Robu, Teodor Robu, Danut Simioniuc, Environmental Engineering and Management Journal, 9(9), 1311-1317, (2010) (IF 1.186)
36. *The impact of chemicals on the derivatives with important therapeutic activity in the Calendula Officinalis L. Flores*, Teodor Robu, Constantin Leonte, Elvira Gile, Roxana Vatavu, Brindusa Robu, Environmental Engineering and Management Journal, 9(1), (2010) (IF 1.186)
37. *Ecological Education For Sustainable Tourism In Romania's North-East Region*, Carmen

Cătălina Ioan, Brîndușa Robu, Matei Macoveanu, Environmental Engineering and Management Journal, 9(1), (2010) (IF 1.186).

38. *Influence on environment of heavy metals generated by mining industry: influence on soil quality of Copper, Zinc, Lead, Mangan And Silver, Generated In Mestecaniş Area,* Corneliu Horaicu, Brindusa Robu, Florinel Florea, Monica Andreea Horaicu, Carpathian Journal of Earth and Environmental Sciences, vol.5, nr.2 (2010) (IF 1.579)
39. *European frame for sustainable agriculture in Romania: Policies and strategies,* Brindusa Robu, Carmen Catalina Ioan, E. Robu, Matei Macoveanu, Environmental Engineering and Management Journal, *8(5),* 1171-1179, (2009) (IF 1.186)
40. *Impact of landfill leachate on soil quality in Iasi County*, Ana-Maria Șchiopu, Brîndușa Mihaela Robu, Ion Apostol, Maria Gavrilescu, Environmental Engineering and Management Journal, 8(5), 1155-1164, (2009) (IF 1.186)
41. *Bioavailability processes for contaminants in soils and their use in risk assessment,* Raluca Maria Hlihor, Laura Carmen Apostol, Camelia Smaranda, Lucian Vasile Pavel, Florentina Anca Căliman, Brîndușa Mihaela Robu, Maria Gavrilescu, Environmental Engineering and Management Journal, 8(5), 1199-1206, (2009) (IF 1.186)
42. *Heavy metal contamination of surface waters from Iaşi City, Romania,* Horaicu Corneliu, Gabrian Florea Cornel, Grozavu Irina, Calu Constantin Cătălin, Horaicu Monica, Brindusa Robu, Environmental Engineering and Management Journal, 8(6), (2009) (IF 1.186)
43. *Strategic environmental assessment for plans, programs, policies in Romania: Multi-Criteria Method,* Brindusa Robu, Matei Macoveanu, *Environmental Engineering and Management Journal*, 8(6), (2009) (IF 1.186)
44. The Pb(II) sorption from aqueous solutions by sphagnum moss peat, Laura Bulgariu, Brindusa Robu, M. Macoveanu, Revista de Chimie, 60 (2), 171-175, (2009), IF 0.693.
45. *The Gorgon method as a tool in sustainable behavior and development*, Carmen Catalina Ioan, Matei Macoveanu, Brindusa Robu, Environmental Engineering and Management Journal, *7(6),* 781-785, (2008), IF 1.186
46. *Quantification of environmental impact and risk induced by industrial activities on ground water quality: Case study Cordun - Roman area*, Romania, Elena D. Carlig, Brindusa Robu, Matei Macoveanu, Environmental Engineering and Management Journal, *7(6),* 791-804, (2008) (IF 1.186).
47. *Valorification of herbs in phytotherapy, as an alternative of chemical treatments in agriculture,* Teodor Robu, Brindusa Robu, Sabina Robu, Environmental Engineering and Management Journal, 7*(5),* 579-588 (2008) IF 1.186.
48. *Quantification of impact and risk induced in surface water by heavy metals: Case Study – Bahlui River Iasi,* Brîndușa Robu, Laura Bulgariu, Dumitru Bulgariu, Matei Macoveanu, Environmental Engineering and Management Journal, *7(3),* 263-267 (2008) ISI Journal IF 1.186.
49. *Methods and procedures for environmental risk assessment*, Brindusa Robu, Anca F. Căliman, Camelia Beţianu, Maria Gavrilescu, Environmental Engineering and Management Journal, *6(6),* 573-592, (2007) ISI Journal IF 1.186.
50. *Study concerning the influence of oxidizing agents on heterogeneous photocatalytic degradation of persistent organic pollutants*, Anca Florentina Căliman, Camelia Beţianu, Brîndușa Robu, Maria Gavrilescu, Ioannis Poulios, Environmental Engineering and Management Journal, *6(6),* 483-489, (2007) (ID 595/2007) ISI Journal IF 1.186.
51. *Equilibrium isoterm studies for the sorption of lead ions from aqueous solutions using Romanian peat sorbent,* L. Bulgariu, C. Cojocariu, B. Robu, M. Macoveanu, Environmental Engineering and Management Journal, 6(5) 425-430, (2007) (IF 1.186).

Articole publicate in reviste indexate in baze de date internationale - BDI

1. *Statistical Analysis and Impact Assessment of Car Fleet Pollution: Case Study Iasi City, Romania,* Hancu A, Balan C, Teodor A.G, Botan D., Sluser B., 2026, Bulletins of

Politechnic Insitute, Iasi, Chemistry and Chemical Engineering Series, SSN: 2537-2947, ISSN-L: 0254-7104, Volume 72(76), Issue 3 (September), DOI: 10.5281/zenodo.23060048.

2. *Case study of the evidence of PM1 & PM2.5 contribution on PM10 from Podul de Piatra – Iasi city*, C.Chiruta, I.M.Tanasa, I.A.Rosu, O.G.Tudose, B.Sluser, M.Cazacu, Bulletin of the Polytechnic Institute from Iași, published by "Gheorghe Asachi" Technical University of Iasi, Section Mathematics, Theoretical Mechanics, Physics, September, 2022.
3. *The Packaging Design as a Marketing Strategy: A Case Study on a Local Tea Producer*, Robu, MariaChiran, Aurel; Sluser, Brindusa Mihaela; Leonte, Elena. Proceedings Of The International Scientific Congress - Life Sciences, A Challenge For The Future, pages105-110, ISBN 978-88-85813-63-2, 2019, (ISI), WOS:000747623800017
4. Anthropogenic pollution due to emissions of heavy metals generated from a lignite thermal power plant in Romania, Nica Badea D., Lazar L., Sluser B.M., Cretescu I., Bulletin of Polytechnic Institute from Iasi, section Chemistry and Chemical Engineering, 2018, vol.64 (68), issue 2, p 59-73, (B+).
5. *Studies Regarding The Influence Of Pedoclimatic Conditions Of 2009 Year On Various Quality Index For Some Corn Populations*, Constantin Leonte, Brindusa Robu, Carmen Paduraru, Lavinia Tofan, Teodor Robu, Lucrări Ştiinţifice – vol. 53/2010, nr.1, seria Agronomie, (2010) (BDI journal)
6. *European Management Practices For Sustainable Agriculture*, Edinel Robu, Vasile Neculaiasa, Brindusa Robu, Matei Macoveanu, Lucrări Ştiinţifice – vol. 53/2010, nr.2, seria Agronomie, (2010) (BDI journal)
7. *Thermodynamic study of Cd(II) sorption on soil*, Raluca Hlihor, Petronela Cozma, Cristina Ghinea, Lucian Pavel, Brindusa Robu, Maria Gavrilescu, Lucrări Ştiinţifice – vol. 53/2010, nr.2, seria Agronomie, (2010) (BDI journal)
8. *Improved global pollution index method applied for environmental impact assessment of a refinery*, Petruc V, Robu B., Macoveanu M., Environmental Engineering and Management Journal, *5(1),* p. 51-62, (2006), BDI.
9. *Comparative evaluation of impact induced in environment by a refinery*, Robu B., Petruc V., M. Macoveanu, Environmental Engineering and Management Journal, 5(3), 457-471, (2006), BDI.
10. *Decontamination of polluted soils with heavy metals by electrokinetics methods (I)*, Dumitru Bulgariu, Laura Bulgariu, Constantin Rusu, Brînduşa Robu, Environmental Engineering and Management Journal, 5(3), 307-319, (2006), BDI.
11. *Integration of risk assessment into environmental impact assessment procedure – case study for steel processing,* B. Robu, M. Macoveanu, Proceedings of 9th International conference on Environmental Science and Technology, Rhodos, ISSN 1106-5516, ISBN 960-7475-33-X, p.196, (2005), BDI.
12. *Integrated environmental impact and risk assessment of emissions resulted from oil distribution*, Brindusa Robu, Victor Petruc, Matei Macoveanu, Environmental Engineering and Management Journal, *4(4)*, 499-513, (2005, BDI).
13. *Environmental impact assessment for steel processing,* B. Robu, C. Zaharia, M. Macoveanu, Environmental Engineering and Management Journal, *4(1),* 26-46, (2005), BDI.
14. *A new tool for site investigation: fast GC/MS analysis of Benzo[a]pyrene in contaminated soil*, B. Robu, T. Ollesh, W. Schroder, G. Matz, Environmental Engineering and Management Journal, *3(3),* 345-355, (2004), BDI.
15. *The monitoring of aluminium concentration in water and fresh food in order to estimate the risks on human health*, Volf I., Robu B., Ciobanu O., Environmental Engineering and Management Journal, *3(3),* 313-323, (2004), BDI.
16. *Risk assessment for a shipyard from Romanian Black Sea Coast,* Robu B., Gavrilescu M., Macoveanu M., Environmental Engineering and Management Journal, 2 (4), 303-317, (2003), BDI.

17. *Preliminary actions for environmental management systems implementation at a Yarns and Fibres Plant,* Robu B., Teodosiu C., Environmental Engineering and Management Journal, 1*(2)*, 243-255, (2002), BDI.
18. *Modelling and simulation of bioreactors in fluidised bed used for wastewater treatment* Gavrilescu M., Ungureanu F., Robu B., Environmental Engineering and Management Journal, *1(4)*, 517-533, (2002), BDI.

G. Lucrări ştiinţifice publicate în reviste din străinătate

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. *Profiluri de interese vocaţionale favorabile integrării profesionale ale absolvenţilor de ingineria mediului, Carmen-Cătălina Ioan, Ileana Maria Carcea, Brînduşa Mihaela Sluşer,* Bulletin of Polytechnic Institute from Iasi, section Socio-sciences, 2019, Volumul 65 (69), 1-2, p.41-57.
2. *Anthropogenic pollution due to emissions of heavy metals generated from a lignite thermal power plant in Romania, Nica Badea D., Lazar L., Sluser B.M., Cretescu I.,* Bulletin of Polytechnic Institute from Iasi, section Chemistry and Chemical Engineering, 2018, vol.64 (68), issue 2, p 59-73, (B+).
3. *L'impact De La Pollution De L'air Sur Les Écosystèmes Forestiers,* Mihaela Budianu, Brîndusa Robu, Matei Macoveanu, Buletinul Insitutului Politehnic din Iasi, sectia Constructii de masini, tomul LVI(LX), fasc.3b, pag. 85-97, (2010)
4. *Overview on Chromium occurrence in the environment and its remediation,* Raluca Maria Hlihor, Laura Carmen Apostol, Vasile Lucian Pavel, Camelia Smaranda, Brînduşa Mihaela Robu, Florentina Anca Căliman, Maria Gavrilescu, Buletinul Institutului Politehnic din Iaşi, Chimie si Inginerie Chimică, 55(3), p. 19-35, (2009)
5. *Life Cycle Impact Assessment of Pesticides: Current Issues and Perspectives,* Laura Carmen Apostol, Raluca Maria Hlihor, Camelia Smaranda, Vasile Lucian Pavel, Brindusa Mihaela Robu, Florentina Anca Căliman, Maria Gavrilescu, Buletinul Institutului Politehnic din Iaşi, Chimie si Inginerie Chimică, 55(2), p. 67-83, (2009)
6. *Identificarea si analiza strategiilor si tehnologiilor pentru prevenirea poluarii si productie mai curata, ca instrumente ale dezvoltarii durabile, in sistemele de productie si servicii – raport de cercetare,* M. Gavrilescu (coord), M. Macoveanu, C. Teodosiu, B. Robu, C. Betianu, G. Barjoveanu, L. Pavel, Revista de Politica Stiintei si Scientometrie, numar special 2006 ISSN 1582-1218, (2006)
7. *Is a new oil distribution station a major risk for environmental components?,* B. Robu, V. Petruc, M. Macoveanu, Buletinul Institutului Politehnic din Iaşi, tomul 52 Fasc. 3-4, 2006, Chimie si Inginerie Chimică, (2006).
8. *Assessment of the impact induced on environment by oil distribution,* B. Robu, V. Petruc, M. Macoveanu, Analele Ştiinţifice ale Universităţii „Al. I. Cuza" din Iaşi, Seria Chimie, Tomul XIV, Nr. 1, ianuarie-iunie, 2006, p 117-128, (2006).
9. *General considerations regarding the main methods for field analysis of contaminated soil in order to prevent groundwater pollution,* Robu B., Robu T., Analele USAMV Iasi, ISSN 1454-7376, vol 1 (47), (2004).
10. *Tendinte de armonizare a legislatiei Romaniei la legislatia UE, in domeniul protectiei mediului,* Robu B., Robu T., Analele USAMV Iasi, ISSN 1454-7376, vol. 1(46), p. 705-710, Iaşi, (2003).
11. *Practici agricole finantate de SAPARD in contextul protectiei mediului,* Robu T., Robu B., Analele USAMV Iasi, ISSN 1454-7376, vol. 1(46), pg. 711-714, (2003).

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. *Drinking water availability for the human settlements along the Sulina Channel of the Danube Delta, Romania,* Igor Cretescu, Gabriela Soreanu, Brindusa Sluser, EWA-IWA Water Management in Changing Climates Conference, 14-15 May 2024, Munich, Germany

2. *Potential benefits and threats of emerging technologies for soil and groundwater cleanup,* Maria Gavrilescu, Florentina Anca Căliman, Brînduşa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel, A XIII-a Conferinţă Internaţională de Inventică „Cercetări şi Tehnologii Inovative Performante", 4-6 Iunie, 2009, Iaşi, Romania, pp. 537-555, Editura performantica, Iaşi, ISBN 978-973-730-610-4
3. *Behaviour of persistent pollutants and risks associated with their presence in the environment,* Maria Gavrilescu, Florentina Anca Căliman, Brînduşa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel, Raluca Maria Hlihor, Laura Carmen Apostol, *Expoziţia realizărilor cercetării româneşti – SALONUL CERCETĂRII – 2009,* 28 – 31 octombrie 2009, Târgul Tehnic Internaţional Bucureşti, Complexul Expoziţional ROMEXPO.
4. *Land filling Impact Assessment Induced by Leachate Contaminant Loadings and Management Options,* Ana-Maria Schiopu, Brindusa Mihaela Robu, Abdelnaser Omran, Maria Gavrilescu, 1st CONVEEESH, Proceedings of the International Conference on Engineering, Environment, Economic, Safety & Health, 26 – 27 October 2009, Manado, Indonesia.
5. *The impact induced in environment by presence in soil of chrom ions,* Brindusa Robu, Laura Bulgariu, Matei Macoveanu simpozionul Universitatea de Stiinte Agricole si Medicina Veterina „Ion Ionescu dela Brad", Analele USAMV Iasi, octombrie 2008.
6. *Lead sorption by moss peat and its different main fractions,* Laura Bulgariu, Mioara Răţoi, Brînduşa Robu, Th. Măluţan, M. Macoveanu, Simpozionul Universitatea de Stiinte Agricole si Medicina Veterina „Ion Ionescu de la Brad", Analele USAMV Iasi, 2008.
7. *The influence on soil and ground water quality of organic compounds use in orchards,* Brindusa Robu, Laura Bulgariu, E. Robu, M. Macoveanu, Simpozionul stiintific Agricultura romaneasca in UE - oportunitati si perspective, Analele USAMV Iasi, octombrie 2007.
8. *The Pb(II) sorption from aqueous solutions by sphagnum moss peat,* Laura Bulgariu, Brindusa Robu, M. Macoveanu, comunicata la Conferinta Internationala de Chimie si Nanomateriale, oct.2007.
9. *Comparative Study of Cr(VI) removal from aqueous solutions using natural sorbents and Purolite A 400 Resin,* Brindusa Robu, C. Balan, D. Bilba, I. Cretescu, M. Macoveanu Conferinta internationala de Chimie si Nanomateriale, oct. 2007.
10. *The Impact of Urbane Soils Pollution with Heavy Metals (Cd, Pb) – Case Study: Industrial Zone, Iasi City,* L. Bulgariu, D. Bulgariu, B. Robu, M. Macoveanu, Annals of West University of Timisoara, Series of Chemistry, 16(1), 65-82, 2007.
11. *Studiul adsorbţiei competitive a cadmiului, plumbului şi zincului pe tuf vulcanic zeolitic,* Laura Bulgariu, D. Bulgariu, Brindusa Robu, M. Macoveanu, Conferinta Internationala Zilele Academiei Timisene, mai 2007.
12. Integration of risk assessment into environmental impact assessment procedure – case study for steel processing, B. Robu, M. Macoveanu, Proceedings of 9th International Conference on Environmental Science and Technology, Rhodos, ISSN 1106-5516, ISBN 960-7475-33-X, p.196 (2005).
13. *Prediction and quantification of environmental impact and risk for sand blasting and varnishing processes,* Petruc V., Robu B., Macoveanu M., 6th International Congress Of Chemistry, "Chemistry And Sustainable Development", Puerto de la Cruz, Tenerife, Spain, 5-7th December 2006, vol.2, pg.697, ISBN 84-690-2349-7, (2006)
14. *Environmental impact and risk assessment of an industrial site used for solid wastes disposal, resulted from steel processing*, B. Robu, M. Macoveanu, The 3rd International Conference on Ecological Chemistry Chisinau, ISBN 9975-62-134-1, pg. 511-522, (2005)
15. *Key environmental risk factors and impact consideration issues for alcoholic beverages industry*, Volf, B. Robu, M. G. Popescu, M. Macoveanu, The 3rd International Conference on Ecological Chemistry Chisinau, ISBN 9975-62-134-1, pg.111-122, (2005)

J. Invenţii.

1. **Brevet nr. 133480,** in baza Hotararii OSIM nr. 43/269 **din 30.09.2024**, Antohi Constantin Marin; Malek Al Refai, Sluser BM, Cretescu I., Echipament pentru dezinfectia aerului cu flux laminar, https://worldwide.espacenet.com/patent/search/family/067386061/publication/RO133480A0?q=pn%3DRO133480A0
2. **Brevet nr. 131395** din 30.10.2019 - Platforma mobila pentru aerarea apelor de suprafata, autori C.M. Antohi, B.M. Sluser, I. Antonescu, I. Cretescu.

K. Contracte de cercetare.

- ***responsabil*** / **director** ***pentru 17 contracte de cercetare:***

1. Waste Reduction and Management by implementing circular economy in western Africa _WARM - ERASMUS-EDU-2024-CBHE-STRAND-2, ERASMUS2027, cod proiect 101179192, 2024-2027, coordonator Conf.habil.dr.ing. Brindusa Sluser.
2. **Grant finantat COST ACTIONS OC-2023-1-26944** European Network for Multiple View Life Cycle Sustainability Assessment, perioada 2024-2028, coordonator științific retea europeana, coordonator national (MC), responsabil TUIASI – Conf.habil.dr.ing. Brindusa Sluser.
3. **Grant finantat de Banca Mondiala**, program Romanian Secondary Education (ROSE), contract AG 195/NC/SGU/II/13.09.2019, proiect StepUp, valoare 700490 lei (TVA inclus), echivalent 150000 Euro, perioada 2019 – 2023, proiect derulat prin TUIASI_ CCTT Polytech, Universitatea Tehnica "Gheorghe Asachi" din Iasi.
4. **Contract de cercetare nr. 901P/2015**, *Studii privind radioactivitatea unor materiale de constructii din caramida si BCA*, beneficiar S.C. PRO – BCA Organizatia Patronala a Producatorilor de BCA, Bucuresti, valoare 30000 RON+TVA, derulat prin CCTT **Polytech**, Universitatea Tehnica "Gheorghe Asachi" din Iasi, responsabil colectiv Facultatea de Inginerie Chimica si Protectia Mediului.
5. **Contract de cercetare nr. 1399P/17.09.2015**, *Analize fizico chimice ale deseurilor menajere prelevate din depozitul de deseuri neconform Campia Turzii, Cluj*, beneficiar S.C. Proexrom SRL, valoare 2800 RON+TVA, derulat prin CCTT **Polytech**, Universitatea Tehnica "Gheorghe Asachi" din Iasi (perioada 2015-2017).
6. **Contract de cercetare nr. P/2015**, *Analize fizico chimice*, beneficiar SALUBRIS SA IASI, valoare 8700 RON+TVA, derulat prin **Polytech**, Universitatea Tehnica "Gheorghe Asachi" din Iasi (perioada 2015-2017).
7. **Contract de cercetare nr. 1798P/03.12.2014**, *Analize fizico chimice,* beneficiar S.C. Proexrom SRL, valoare 2800 RON+TVA, derulat prin CCTT **Polytech**, Universitatea Tehnica "Gheorghe Asachi" din Iasi.
8. Consultanta de mediu pentru controlul implementarii proiectelor finantate prin Programul Operational Sectorial – POS CCE Axa 2, Beneficiarul final - Agentia Nationala pentru Cercetare Stiintifica (*ANCS) - Organism Intermediar pentru POS CCE, Axa 2 Cercetare Dezvoltare*, perioada 01.03.2010 - 31.07.2011.
9. Evaluarea strategica a mediului prin elaborarea Raportului de mediu pentru Planul urbanisitic general al comunei Ramnicelu, jud. Braila, Beneficiar Consiliul Local al Comunei Gemenele, jud. Braila, 2013
10. Evaluarea strategica a mediului prin elaborarea Raportului de mediu pentru Planul urbanisitic general al comunei Gemenele, jud. Braila, Beneficiar Consiliul Local al Comunei Gemenele, jud. Braila, 2010
11. Evaluarea strategica a mediului prin elaborarea Raportului de mediu pentru Planul urbanisitic general al comunei Scortaru Nou, jud. Braila, Beneficiar Consiliul Local al Comunei Scortaru Nou, jud. Braila, 2010.
12. Evaluarea impactului asupra mediului prin realizarea Raportului de impact asupra mediului

pentru Statiunea de cercetari piscicole Potoci Neamt, 2010.

13. Consultanta de mediu privind politicile si strategiile Europene pentru agricultura ecologica, Beneficiar S.C. Akkeron Farming S.R.L., valoare contract 25500 RON + TVA, iunie-iulie 2010.
14. **Contractul de cercetare** nr. 10992P/2009 *Analize biochimice si calitative,* valoare totala 118.000 RON (23000 Euro + TVA), beneficiar Universitatea de Ştiinţe Agricole şi Medicină Veterinară Iaşi, subcontract la proiectul Phare RO 2006/018-447 01 01 02 – „Cooperare transfrontalieră pentru înfiinţarea unui Centru zonal privind formarea de experţi pentru sediul, păstrarea şi managementul resurselor genetice vegetale, în vederea utilizării eficiente a patrimoniului genetic şi a conservării mediului ambiant", parteneri: Universitatea de Ştiinţe Agricole şi Medicină Veterinară Iaşi (U.S.A.M.V. Iaşi), F.U.S.P.A. România şi Institutul „Selecţia" Bălţi, Universitatea de Stat Bălţi, Republica Moldova.
15. Consultanta de mediu pentru proiectul *Sprijin acordat Ministerului Mediului si Gospodaririi Apelor pentru pregatirea de proiecte in vederea realizarii de lucrari pentru protectia impotriva inundatiilor*, Beneficiarul Final al Proiectului – MINISTERUL ECONOMIEI FINANTELOR - O.P.C.P., suma contractata 18000 RON + TVA (perioada 1.11.2008-30.04.2009)., derulat prin CCTT Plytech, Universitatea Tehnica "Gheorghe Asachi" din Iasi.
16. **Contractul de cercetare** *Evaluarea calitatii factorilor de mediu, valoare totala 450 RON, beneficiar S.C. ELECTRA S.A. Iasi*, 2008, derulat prin CCTT Plytech, Universitatea Tehnica "Gheorghe Asachi" din Iasi.
17. **Contractul de cercetare** *Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei de mediu* (Bilant de mediu de nivel I si II), - *Contract 342P/2007*, valoare totala 6500 RON, beneficiar S.C. ELMET INTERNATIONAL S.R.L., 2007, derulat prin CCTT Plytech, Universitatea Tehnica "Gheorghe Asachi" din Iasi.

- ***Colaborator/membru la 60 contracte sau granturi:***

Granturi internaţionale:

1. Grant international **INGENIUM** Alliances of European Universities, cod ERASMUS-EDU-2022-EUR-UNIV, ID 101090042, coordonator pachet de lucru Sustainable Development, director de grant Prof.dr.ing. Irina Lungu, 2023-2026.
2. Grant international **Environmental Education – OERs for Rural Citizens EnvEdu-OERs,** funded by EEA Grants, financial mechanism 2014-2021, partners Transilvania University of Brasov, Romania (project coordinator), University of Reykjavik, Iceland, Bucharest University of Economic Studies, Romania, Gheorghe Asachi Technical University of Iasi, Romania, responsabil TUIASI – Profesor dr.ing. Carmen Teodosiu, perioada 2020-2023.
3. Integrated value chain for improvement on labour market – **IVAC**, EMS - ENI Code 2SOFT/1.1/94, Republica Moldova-Romania, responsabil TUIASI Sef lcr.dr.ing. Gabriela Covatariu, perioada 2020-2022.
4. ***INTERREG IVC-0757R2 ORGANZA – Network of Mediumsized Creative cities***, parteneri Universitatea Tehnica Gheorghe Asachi din Iasi si Primaria Municipiului Iasi, director proiect Prof.dr. ing. Antonela Curteza, 2010.
5. Proiect **COMENIUS** – Education and Culture, Lifelong learning program. *Cooperation Under The Objective Of Recycling Energy - C.U.O.R.E.*, Ministerul Educatiei, Cercetarii si Inovarii, Inspectoratul Scolar al judetului Iasi, prin Scoala Titu Maiorescu Iasi si Elena Cuza Iasi si parteneri internationali Italia, Spania, Lituania, Polonia, Portugalia, Germania; 2009.
6. **Grant SOCRATES/MOD- Management and security assesment for sustainable environment** –***MASS***, 51388-IC-2004-RO-ERASMUS-MODUC-6, 2005-2007, Valoare 8000 Euro (24 luni), director grant Prof.dr.ing. Carmen Teodosiu.
7. **Knowledge transfer and institutional capacity building for cleaner production in Romania,** Grant finantat de Swedish Institute Stockholm, 2002-2007, Director program:

Thomas Lidhqvist, Prof.dr.ing. Matei MAcoveanu, IIIEE Lund, Suedia

8. **Programul PHARE 2003** – EuroAliment, lector pentru *Standarde europene de mediu în industria alimentară - Implementarea sistemelor de management de mediu conform ISO 14000 în industria alimentară*, derulat în perioada martie – iunie 2005, la nivel regional NE – Moldova (Bacau, Botosani, Pascani, Piatra Neamt, Suceava).
9. ***Implementation of Environmental Management Systems in Dutch and Romanian factories,* Olanda,** Aprilie – Iunie 2000, membra in echipa, director proiect Prof.dr.ing. Carmen Teodosiu.

Granturi şi contracte naţionale:

10. Proiect „Intervenții pentru învățământul terțiar - măsuri sistemice pentru prevenirea și reducerea abandonului universitar", cod MySMIS: 322473, derulat de Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI) în parteneriat cu Ministerul Educației (ME) în perioada 01.08.2024 – 31.07.2027, finanțat prin Programul Educație și Ocupare (PEO) 2021-2027.
11. Proiect FDI, CNFIS-FDI-2024-F-0598, 2024, director conf.dr.ing. Ionut Ovidiu Toma, 2024-2025.
12. Proiect PN IV Premiere nr. 10PHE/2023, etapa 1 si etapa 2, director Prof.dr.ing. Alina Adriana Minea, 2023-2024.
13. Proiect CNFIS-FDI-2023-F-0016, TechGo2: Dezvoltarea instituțională pentru competențe transversale în TUIASI, director Prof.dr.ing. Alina Adraiana Minea, 2023.
14. Proiect Reducerea abandonului scolar al studentilor din anul I prin activitati remediative si consiliere in Centrul de Invatare din cadrul TUIASI (REMEDIUM), director proiect Prof.dr.ing. Neculai Seghedin, membru in echipa de experti formatori, 2022.
15. Proiect cofinanţat din Fondul Social European prin Programul Operaţional Capital Uman 2014-2020, Axa prioritară 6 - Educaţie şi competenţe, Obiectivul specific 6.13, proiect POCU/626/6/13/130661 - "Stagii de PRACTICă performante pentru studenţii Universităţii Tehnice Gheorghe Asachi Iaşi – PRACTIC", director Prof.dr.ing. Neculai Seghedin, membru in echipa (expert intreprinderi simulate), 2021-2022.
16. Contract de finanţare OIRPOSDRU NE: 10538/22.09.2020, Cod SMIS: 130661Proiect POCU 626/6/13/131181/2020, din cadrul Programului Operational Capital Uman, numărul de referință 2014RO05M9OP001, finanţat prin Ministerul Fondurilor Europene - OIPOSDRU, cu titlul "Inserția absolvenților prin stagii de pregătire PRACtică moderne și eficiente din cadrul Universității TEHnice Gheorghe Asachi din Iași, pe piața muncii-PRACTEH", director Conf.dr.ing. Lidia Gaiginschi, membru in exhipa (expert intreprinderi simulate), 2021-2022.
17. Contract POCU/626/6/13/131181 (OIPOSDRU NE 10372/21.09.2020), Cod SMIS: 131181, Program cofinanţat din Fondul Social European, Programul Operațional Capital Uman 2014 – 2020, Cod SMIS 123975, Axa prioritară 6 – Educație și competențe, Domeniul major de Intervenţie 10.ii. Îmbunătățirea calității și eficienței și accesul la învățământul terțiar și a celui echivalent în vederea creșterii participării și a nivelului de educație, în special pentru grupurile defavorizate, beneficiar UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI, titlul proiect: *Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat-**AntreprenorIng***, director Prof.dr.ing. Neculai Seghedin, membru in echipa (expert formator) (2019-2021).
18. Grant finantat de Banca Mondiala, programul ROSE_punte, Reactioneaza chimic cu mediul universitar, TUIASI, director grant Conf.dr.ing. Irina Carlescu (2019-2021), membru in echipa (expert formator).
19. *Grant PN-III-P1-1.2-PCCDI-2017-0245, Sustainable Environmental treatment and integrated processes, wastewaters reuse and solid wastes valorization,* contract no. 26/2018, total amount 5287500 RON, director: Prof.dr.eng. Carmen Teodosiu, period 2018-2021.

20. „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții”, EFECON, Beneficiar: Universitatea Tehnică "Gheorghe Asachi" din Iași, Proiect cofinanțat din Fondul European de Dezvoltare Regională prin Programul Operațional Competitivitate 2014-2020, valoarea totală a proiectului: 8.862.750 lei, director proiect Prof.dr.ing. Dorina Nicolina Isopescu.
21. „International la puterea t”, contract de finantare tip CNFIS-FDI-2017-0206, director de proiect Prof.dr.ing. Irina Lungu, membru in echipa – expert invatamant superior, 2017.
22. *„Noi abordări în formarea profesională a specialiştilor din domeniul Ingineria Mediului în vederea dezvoltării durabile regionale şi a corelării la cerinţele actuale ale pieţii muncii (REGIOSIM)”,* POSDRU/156/1.2/G/136423, Proiect cofinanţat din Fondul Social European prin Programul Operaţional Sectorial Dezvoltarea Resurselor Umane 2007-2013, Axa prioritară 1: „Educaţia şi formarea profesională în sprijinul creşterii economice şi dezvoltării societăţii bazate pe cunoaştere”, Domeniul major de intervenţie 1.2: „Calitate în învăţământul superior”, Beneficiar: Universitatea „Vasile Alecsandri” din Bacău; Partener (P1): Universitatea Tehnica „Gheorghe Asachi” din Iasi - director Prof.dr.ing. Carmen Teodosiu, 2014-2015.
23. *Grant PN II* Integrated System For Reducing Environmental And Human– Related Impacts And Risks In The Water Use Cycle, contract nr. 60/2012 (WATUSER), director: Prof.dr.ing. Carmen Teodosiu, 2012-2015.
24. Contract de cercetare, contract nr. 3633P/11.11.2012 cu tema Analize fizico-chimice ale apei uzate provenite de la statia de epurare a SC DELPHI DIESEL SYSTEMS ROMÂNIA S.R.L, director Asist.dr.ing. Corina Petronela Musteret, valoare totala 95340 lei, 2011-2013.
25. Contract de cercetare STUDII PRIVIND EFICIENTIZAREA STATIEI DE EPURARE A SC DELPHI DIESEL SYSTEMS ROMÂNIA S.R.L., director de proiect: dr.ing. George Barjoveanu, valoare totala 86850 RON+TVA, ian-aprilie 2012.
26. *POSDRU, Retea Nationala continua a Cadrelor didactice din Invatamantul Preuniversitar Profesional si Tehnic (CONCORD),* Beneficiar Universitatea Politehnica din Bucuresti, POSDRU/87/1.3/S/61397, responsabil partener UTI : Prof.dr. Mircea Dan Gusa, (membru in echipa in calitate de expert local), 2012-2013.
27. *POS-DRU, De la teorie la practică prin întreprinderea simulată*, Beneficiar: Ministerul Educației, Cercetării, Tineretului și Sportului Contract de finanțare: POSDRU/90/2.1/S/58123, director UTI, Prof.dr.ing. Constantin Baciu, (membru in echipa in calitate de expert local), 2011-2013.
28. *Construire si implementare sisteme de management de mediu (inclusiv Analiza initiala de mediu),* conform ISO 14001 la S.C. ELMET INTERNATIONAL BACAU S.R.L., 2010.
29. *Evaluarea riscului de mediu pentru dezafectare si ecologizare statie de mixturi asfaltice* Birlad, beneficiar S.C. Lucrari Drumuri si Poduri S.A. – Consiliul Judetean Vaslui (coordonator), 2009.
30. *Finanţare manifestări ştiinţifice ICEEM 05/2009*, valoare totala 8000 RON, sursa de finantare MECI; director: prof.dr.ing. Matei Macoveanu, responsabil Brindusa Robu, 2009.
31. *Construire si implementare sisteme de management de mediu (inclusiv Analiza initiala de mediu),* conform ISO 14001 la S.C. Arcelor Tubular Products IASI S.A., 2008.
32. Program PNCDI Parteneriate PN II PART. 32-125/2008, Sistem Suport Tehnico-Decizional Pentru Managementul Durabil Al Apei (STEDIWAT), director proiect: Prof.dr.ing. Carmen Teodosiu
33. Program PNCDI IDEI 595/2007 *Studii integrate privind comportarea poluanţilor persistenţi şi riscurile asociate cu prezenţa lor în mediul înconjurător,* Director de proiect: Prof. dr. ing. Maria Gavrilescu
34. PNCDI Capacitati, Extinderea competenţelor laboratorului de analiză şi control a factorilor de mediu în domeniul estimării, caracterizării şi valorificării resurselor regenerabile şi reciclabile prin procedee chimice şi biotehnologice MEDRES Lab., director: Conf.dr.ing. Irina Volf

35. Program CEEX/MEdC *Decontaminarea apelor poluate accidental cu produse petroliere si ioni de metale grele, folosind sorbenti naturali, sintetici si neconventionali,* Contract 5933/2006., 2006-2008, valoare totala: 500500 RON-Universitatea Tehnică *Gh Asachi* Iasi, Director: prof.dr.ing. Matei Macoveanu
36. Program CEEX/ MEdC *Retea integrata pentru managementul durabil al resurselor de apa,* Contract 115/01.08.2006., 2006-2008, 115000 RON-Universitatea Tehnică *Gh Asachi* Iasi, Director: prof.dr.ing. Carmen Teodosiu
37. Program *INFRATECH*: *Dezvoltarea cercetării şi îmbunătăţirea infrastructurii de inovare şi transfer tehnologic din Parcul Stiinţific Tehnologic Iaşi* - valoare totala: 500000 RON, MedC, 2005/2007
38. *Construire si implementare sisteme de management de mediu (inclusiv Analiza initiala de mediu),* conform ISO 14001 la S.C. Arcelor Tubular Products Roman S.A. (membru in echipa), 2007.
39. *Finanţare manifestări ştiinţifice ICEEM 03/2006 - Contract nr. 125/2006,* valoare totala 6000 RON, sursa de finantare MEdC; director: prof.dr.ing. Matei Macoveanu, 2006
40. *Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei integrate de mediu* (Bilant de mediu de nivel I si II, Evaluarea riscului de mediu, Raport de amplasament), - *Contract 1487P/2005*, valoare totala: 65000 RON, S.C. MITTAL STEEL ROMAN, 2007;
41. *Realizarea documentaţiei de mediu in vederea inchiderii instalatiei de cromare* (Bilant de mediu de nivel I si II, Evaluarea riscului de mediu), valoare totala: 9000 RON, S.C. MITTAL STEEL ROMAN, 2006;
42. *Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei de mediu* (Bilant de mediu de nivel I si II, Evaluarea riscului de mediu) - *Contract 2360P/2005,* valoare totala 12500 RON, S.C. MITTAL STEEL IASI 2005-2007;
43. *Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei integrate de mediu* (Bilant de mediu de nivel I si II, Evaluarea riscului de mediu, Raport de amplasament),, S.C. MITTAL STEEL IASI- SECTIA ZINCARE, 2005;
44. *Realizarea documentaţiei de mediu Evaluarea riscului de mediu pentru depozitul de deseuri nerecuperabile* - valoare totala 4000 RON, S.C. MITTAL STEEL IASI, 2007
45. *Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei de mediu* (Bilant de mediu de nivel I si II, Evaluarea riscului de mediu), valoare totala 9500 RON, S.C. URBAN SERV S.R.L BOTOSANI 2005;
46. Grant CNCSIS tip A, Contract 2006, cod CNCSIS 288, tema 17 *Eco-proiectarea proceselor, produselor si serviciilor in relatie cu componentele managementului de mediu, in contextul dezvoltarii durabile,* Director: prof. Matei Macoveanu, Membru în echipa de cercetare, Durata: 3 ani (2006-2008), Valoarea totala:115000 RON, Valoarea 2006: 35000 RON
47. Grant CNCSIS tip A, Contract 2006, Cod 511, tema 36 Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii, 32500 RON, Director de proiect: Prof.dr.ing. Maria Gavrilescu
48. Grant CNCSIS tip A, Contract 34664/24.06.2005, Cod 511, tema 27 Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii, 225 milioane lei, Director de proiect: Prof.dr.ing. Maria Gavrilescu
49. Grant CNCSIS tip A, Contract 33371/2004, Cod 511, tema 23 si tema 13 Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii, 100 milioane si tema 13 suplimentara, 30000 mii lei, Director de proiect: Prof.dr.ing. Maria Gavrilescu
50. Grant CNCSIS tip A, Contract 34664/24.06.2005, Cod 774, tema 35 *Bioremedierea factorilor de mediu afectati de fenomenul poluării aplicand procese specifice ingineriei chimice si biotehnologiei,* 175 milioanei lei, Membru în echipa de cercetare,

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51. Grant CEEX contract nr. 26/2005, Experimentarea Si Imbunatatirea Tehnologiei De Exploatare Biologica Pe Un Modul De Livada Intensiva De Mar, Cu Impact Favorabil Asupra Sanatatii Consumatorului Si A Mediului Inconjurator, (2005-2008), director S.l.dr.ing. Mariana Diaconu.
52. Grant CNCSIS tip A, Contract 33371/2004, Cod 774, tema 63 si tema 23 *Bioremedierea factorilor de mediu afectati de fenomenul poluării aplicand procese specifice ingineriei chimice si biotehnologiei,* 100000 mii lei + 30000 mii lei suplimentare, Membru în echipa de cercetare, Director: Prof. dr.ing. Matei Macoveanu
53. *Evaluarea riscului de mediu pentru inchidere sectia turnatorie si prestari servicii*I din cadrul S.C. Mittal Steel Roman S.A., 2004, Director: Prof. dr.ing. Matei Macoveanu.
54. Grant CNCSIS tip A, Contract 40222/2003, Cod 316, tema 13 *Bioremedierea factorilor de mediu afectati de fenomenul poluării aplicand procese specifice ingineriei chimice si biotehnologiei,* 82500 mii lei, , Director: Prof. dr.ing. Matei Macoveanu.
55. *Evaluarea riscului de mediu pentru Santierul Naval Mangalia* – S.C. Daewoo S.R.L., Director: Prof. dr.ing. Matei Macoveanu, 2003.
56. *Evaluarea riscului de mediu pentru Santierul Naval Constanta,* Director: Prof. dr.ing. Matei Macoveanu, 2003.
57. *Bilant de mediu de nivel I* pentru S.C. MiccaRom S.R.L. (membru in echipa), Director: Prof. dr.ing. Matei Macoveanu , 2002.
58. *Impactul apelor uzate rezultate din fabricarea drojdiei de bere asupra râului Siret*, 2001, in cadrul *Centrului de Informare şi Consultanţă InterMediu* de la Facultatea Inginerie Chimica si Protectia Mediului si in colaborare cu Universitatea "Gh. Asachi" si Universitatea Groningen, Olanda.
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L. Premii, distincţii.

1. **Diploma de excelenta si medalia de aur**, **INVENT-INVEST**, editia organizata in septembrie 2016 si editia organizata in noiembrie 2017 pentru inventia Platforma mobila pentru aerarea apelor de suprafata, autori C.M. Antohi, B.M. Sluser, I. Antonescu, I. Cretescu.
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3. Premiul special acordat de Asociatia Romania pentru Tehnologii Neconventionale, Bucuresti, septembrie 2016, acordat pentru inventia Platforma mobila pentru aerarea apelor de suprafata, autori C.M. Antohi, B.M. Sluser, I. Antonescu, I. Cretescu.

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7. Membru in Comisia de Analiza Tehnica a Planului de calitate a aerului in orasul Iasi, Primaria Iasi, din 2016.
8. Presedinte al Organizatiei Academice de Ingineria Mediului si Dezvoltare Durabila, Iasi, din 2014.
9. Vicepresedinte al Asociatiei Romane de Mediu, asociatie de utilitate publică, sub patronajul Ministerului Mediului, Apelor și Pădurilor, asrm.ro (din 2023).
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2. Cărţi si capitole

1. Maria Gavrilescu (coordonator), Igor Cretescu, **Th. Malutan**, s.a., *Strategii si solutii pentru eco-inovarea si eco-proiectarea unor procese si produse din materiale reciclabile in contextul economiei circulare. Ghid de bune practici*, Ed. Politehnium, 2018, 386 pag. ISBN 978-973-621-481-3
2. Florin Ciolacu, Adina Elena Custură, Dan Gavrilescu,**Teodor Măluțan**, Raluca Nicu, Paul Obrocea, Adrian Cătălin Puițel, Bogdan Marian Tofănică, Roxana Vlase, *Ambalaje din carton ondulat pentru produse alimentare - manual de bune practici*, Editura Politehnium, Iași, 2017, ISBN 978-973-621-465-3
3. D. Suteu, C. Zaharia and **Th. Malutan**, „Biosorbents Based On Lignin Used In Biosorption Processes From Wastewater Treatment", 26 pg, in "Lignin: Properties and Applications in Biotechnology and Bioenergy", Nova Science Publishers, Inc., 2012
4. V.I.Popa, **Th. Malutan**, Georgeta Cazacu, "*III.3. Identificarea de resurse si modalitati de separare a produselor ligninice prin metode conventionale si neconventionale*" 26 pg, editori: Georgeta Cazacu, Marian I. Totolin, Ed. PIM, 2010, ISBN 978-606-520-712-7
5. V.I.Popa, **Th. Malutan**, Georgeta Cazacu, "*Identificarea surselor de produse secundare accesibile reactiilor de modificare chimica si biochimica. III.1. Tendinte in delignificarea lemnului*", 31 pg, in "*Lignina, sursa de materii prime si energie*", editori: Georgeta Cazacu, Marian I. Totolin, Ed. PIM, 2010, ISBN 978-606-520-712
6. V.I.Popa, **Th. Malutan**, Georgeta Cazacu, "*Lignina-resursa de materii prime cu potential ridicat de valorificare*", 15 pg, in "*Lignina, sursa de materii prime si energie*", editori: Georgeta Cazacu, Marian I. Totolin, Ed. PIM, 2010, ISBN 978-606-520-712-7
7. V.I.Popa, C. Agache, **Th. Malutan**, M. Totolin, Georgeta Cazacu, "*Aspecte teoretice privind structura si reactivitatea ligninei*", 70 pg, in "*Lignina, sursa de materii prime si energie*", editori: Georgeta Cazacu, Marian I. Totolin, Ed. PIM, 2010, ISBN 978-606-520-712-7
8. **Th. Malutan**, V.I.Popa, D. Cascaval, *"100 de ani învățământ de inginerie chimică la Iași 1912-2012",* Ed. Politehnium, 392 pg, 2012, ISBN 978-973-0-13732-3
9. **Th. Malutan**, V. I. Popa, Chimia celulozei, Ed. Politehnium, 2008, 290 pag, ISBN 978-973-621-230-7
10. **Th. Măluţan**, Valorificarea complexă a biomasei, Ed. Performantica, 2008, 188 pag, ISBN: 978-973-730-473-5
11. **Th. Măluţan**, V. I. Popa, Protecţia lemnului prin metode specifice, Editura Cermi, 2007, 185 pag ,ISBN: 978-973-667-293-4
12. **Th. Măluţan**, V. I. Popa, Tehnologii de obţinere a aditivilor din industria de celuloză şi hârtie, Editura Dosoftei, 2002, 174 pag, ISBN: 973-8108-11-X
13. **Th. Malutan**, *Structura lemnului* (format electronic la adresa http://omicron.ch.tuiasi.ro/~thmalu/structura.html), 100 pag
14. **Th. Mălutan**, Metode de analiza si caracterizare a celulozelor, 115 pag, Rotaprint - Universitatea Tehnică "Gh. Asachi" Iasi, 2002

3. *Lucrări publicate in reviste ISI*

1. Georgiana Mardare (Balusescu), Liliana Lazar and **Teodor Malutan**, Ultrasound Extraction and Characterization of Bioactive Compounds Obtained from Different Organs of *Datura Innoxia,* Cellulose Chemistry and Technology, Cellulose Chem. Technol., 59 (1-2), 95-109 (2025)
2. Florin Ciolacu, **Teodor Măluțan**, Gabriela Lisa, Mariana Ichim, Influence of Lignin Type on the Properties of Hemp Fiber-Reinforced Polypropylene Composites, Polymers, 16 (23), 3442 (2024)
3. Iolanda Fustes-Dămoc , Roxana Dinu, **Teodor Mălutan**, Alice Mija, Valorisation of Chitosan Natural Building Block as a Primary Strategy for the Development of Sustainable Fully Bio-Based Epoxy Resins, Polymers, 15, 4627, (2023)
4. Fusteş-Dămoc, **Th. Măluţan**, A Mija, Chitosan as a Polyfunctional Crosslinker for a Renewable-Based Resorcinol Diglycidyl Ether, I ACS Sustainable Chemistry & Engineering 11 (19), 7605-7616, (2023)
5. Fusteș-Dămoc, I., **Măluțan, T.**, Mija, A., High content chitosan-based materials with high performance properties, International Journal of Biological Macromolecules, 223, pp. 263–272, (2022)
6. Georgiana Mardare (Balusescu),Liliana Lazar, and **Teodor Malutan**, Potential Application of Invasive Plant Species *Datura innoxia* for the Scopolamine Extracts of the Plant Organs and Analysis Using UV–VIS Spectrophotometry, Forests, 13(10), 1555, (2022) https://doi.org/10.3390/f13101555
7. Grigore Marian, Gelu Ianus, Bogdan Istrate, Alexandru Banari, Boris Nazar, Corneliu Munteanu, **Teodor Mălutan**, Andrei Gudîma, Florin Ciolacu, Nicolae Daraduda and Viorel Paleu, *Evaluation of Agricultural Residues as Organic Green Energy Source Based on Seabuckthorn, Blackberry, and Straw Blends,* Agronomy 2022, 12, https://doi.org/10.3390/ agronomy12092018, (2018)
8. Georgiana Mardare (Balusescu); Liliana Lazar; **Teodor Malutan**, Spectroscopic investigation and chemical fingerprint of Datura innoxia dry biomass, Comptes Rendus. Chimie, Volume 25 no. S3, pp. 227-235, (2022)
9. Irina Volf, Marcel Popa, Camelia E. Tincu, Corneliu S. Stan, Loredana Stan, **Teodor Malutan**, Photoluminescent Polymer Aerogels with R, G and B Emission, International Journal of Molecular Sciences, 23(24), 16004-16013, (2022)
10. Humelnicu Doina, Pui A, Malutan Corina, **Malutan Teodor**, Humelnicu I, Synthesis, characterization and theoretical investigations of new uranium (VI) and thorium (IV) complexes with 1-furfurylaldehyde-derived Schiff bases as ligands, Journal of Saudi Chemical Society, 24(6), 451-460, (2020)
11. Mureșan EI, **Malutan T**, Lutic D, Puitel A, Cimpoeșu N, Istrate B, Macrospherical porous metallosilicate materials: characterization and applications, Environmental Engineering & Management Journal (EEMJ) 19 (2), 195-204, (2020)
12. Mardare (Balusescu) Georgiana, **Malutan Teodor**, Lazar Liliana, Determination of Scopolamine by Gas Chromatography from Different Parts of the Datura innoxia Biomass, Revista de chimie, 71(7), 126-136, (2020)
13. Iordan (Constantin) V., **Măluțan T**., Măluțan C.,Control of lignin epoxidation by reaction calorimetry, Cellulose Chemistry and Technology, 52 (9-10), 789-793, (2018)
14. Biliuta G., Suteu D., **Malutan T**., Chirculescu A.-I., Nica I., Coseri S.,Valorization of tempo-oxidized cellulosic fractions for efficient dye removal from wastewaters, Cellulose Chemistry and Technology, 52 (7-8), 609-618, (2018)
15. Camelia Smaranda, Maria-Cristina Popescu, Dumitru Bulgariu, **Teodor Măluțan**, Maria Gavrilescu, Adsorption of organic pollutants onto a Romanian soil: Column dynamics and transport, Process Safety and Environmental Protection, 108, 108-120, (2017)

16. Geba M., **Mălutan T**., Mălutan C. et al. Environmental care for romanian oil paintings. Technical examination of degradation phenomena in canvas textiles, Environmental Engineering and Management Journal, 16 (3), 725-729, (2017)
17. Suteu D., Badeanu M, **Măluţan T**., Chirculescu A-I, Valorization of food wastes (orange seeds) as adsorbent for dye retention from aqueous medium, Desalination and Water Treatment, 57 (60), 29070-29081, (2016)
18. Suteu D., Zaharia C., Popovici C., **Măluţan T**. et al., Wood Waste as a Renewable Source of Energy, Environmental Engineering and Management Journal, 15 (3), 665-673, (2016)
19. Bulgariu D., Nacu (Rusu) G**., Măluţan T**. et al., Kinetic study of lead(II) removal from aqueous solution onto lignin-based materials, Cellulose Chemistry and Technology, 50 (2), 339-347, (2016)
20. Olaru A., **Măluţan T**, Ursescu C.M., Geba M., Structural changes in hemp fibers following temperature, humidity, and UV or gamma-rays radiation exposure, Cellulose Chemistry and Technology, 50 (1), 31-39, (2016)
21. Bargan (Mateiuc) A.M., Ciobanu G., **Măluţan T**., Luca C.,Influence of Cerium(IV) and Bismuth(III) on the Luminescence Properties of the Nanocrystalline Hydroxyapatite, Revista de Chimie, 66 (11), 1910-1913, (2015)
22. Ariton A.M., Creanga S, Trinca L.C., Bors S.I., Ungureanu E., **Măluţan T**, Popa V.I.,Valorization of lignin modified by hydroxymethylation to ensure birch veneer bioprotection, Cellulose Chemistry and Technology, 49 (9-10), 765-774, (2015)
23. Olaru A., **Măluţan T**., Geba M, Ursescu C.M., Malutan C., Mathematical modelling of mechanical behaviour of cellulose-based fibres exposed to gamma rays and hydrothermal treatment, Environmental Engineering and Management Journal, 14 (3), 601-605, (2015)
24. Măluţan C., Panzariu A.E., **Măluţan T**., Comparative study of prehydrolysis methods for vegetal materials, Environmental Engineering and Management Journal, 14 (2), 409-413, (2015)
25. Panzariu A.E., **Măluţan T**., Dilute sulphuric acid hydrolysis of vegetal biomass, Cellulose Chemistry and Technology, 49 (1), 93-99, (2015)
26. Panzariu A. E., **Măluţan T**., Mangalagiu I.,The hydrolysis of cellulosic materials in ionic liquids, Bioresources, 9 (1), 282-292, (2014)
27. Suteu D., Blaga A. C., Diaconu M., **Măluţan T**., Biosorption of reactive dye from aqueous media using Saccharomyces cerevisiae biomass. Equilibrium and kinetic study, Central European Journal of Chemistry, 11 (12), 2048-2057, (2013)
28. Postolachi R., Danac R., Moise A., Pui A., **Măluţan T**. et al., Pyridinium ylides as potential inhibitors for glutamate racemase, Revista de Chimie, 64 (11), 1301-1306, (2013)
29. **Măluţan T.**, Măluţan C.,Simulation of processes in papermaking by WinGEMS software, Environmental Engineering and Management, 12 (8), 1645-1647, (2013)
30. Suteu D., **Măluţan T**., Industrial Cellolignin Wastes as Adsorbent for Removal of Methylene Blue Dye from Aqueous Solutions, Bioresources, 8 (1), 427-446, (2013)
31. Panzariu A. E., **Măluţan T**., Flowthrough acid hydrolysis of rapeseed stalks, Environmental Engineering and Management Journal, 11 (12), 2313-2318, (2012)
32. Suteu D., Zaharia C., **Măluţan T**., Equilibrium, kinetic, and thermodynamic studies of Basic Blue 9 dye sorption on agro-industrial lignocellulosic materials, Central European Journal of Chemistry, 10 (6), 1913-1926, (2012)
33. Capraru A.-M., Ungureanu E., Trinca L. C., **Măluţan T**., et al., Chemical and spectral characteristics of annual plant lignins modified by hydroxymethylation reaction, Cellulose Chemistry and Technology, 46 (9-10), 589-597, (2012)
34. Blaga A. C., **Măluţan T**., Selective separation of Vitamin C by reactive extraction, Journal Of Chemical and Engineering Data, 57 (2), 431-435, (2012)
35. Suteu D., Bilba D., Aflori M., **Măluţan T**., et al., The Seashell Wastes as Biosorbent for Reactive Dye Removal from Textile Effluents, Clean-Soil Air Water, 40 (2), 198-205, (2012)

36. Pui A., **Măluțan T**., Tataru L., et al., New complexes of lanthanide Ln(III), (Ln = La, Sm, Gd, Er) with Schiff bases derived from 2-furaldehyde and phenylenediamines, Polyhedron, 30 (12), 2127-2131, (2011)
37. Suteu D., **Măluțan T**., Bilba D., Agricultural waste corn cob as a sorbent for removing reactive dye orange 16: Equilibrium and kinetic study, Cellulose Chemistry and Technology, 45 (5-6), 413-420, (2011)
38. Vlad A.-M., Ursescu M., **Măluțan T**., et al., Regional stylistic and technical variations in some Romanian manuscripts, European Journal of Science and Theology, 7 (1), 91-102, (2011)
39. Nanoparticles based on modified lignins with biocide properties, Popa V. I., Capraru A.-M., Grama S., **Măluțan T**., et al., Cellulose Chemistry and Technology, 45 (3-4), 221-226, (2011)
40. Sorption of Brilliant Red HE-3B Reactive Dye from aqueous solution onto Seashells Waste: Equilibrium and Kinetic Studies, Suteu D., Bilba D., Doroftei F., **Măluțan T**., et al., Separation Science and Technology, 46 (9), 1462-1471, (2011)
41. Suteu D., Zaharia C., **Mălutan T**., Removal of Orange 16 reactive dye from aqueous solutions by waste sunflower seed shells, Journal of the Serbian Chemical Society, 76 (4), 607-624, (2011)
42. Suteu D., **Măluțan T**., Bilba D., Removal of reactive dye Brilliant Red HE-3B from aqueous solutions by industrial lignin: Equilibrium and kinetics modeling, Desalination, 255 (1-3), 84-90, (2010)
43. Capraru A.-M., Popa V. I., **Măluțan T**., et al., Contribution to the modification and characterization of different types of lignins, Cellulose Chemistry and Technology, 43 (9-10), 409-418, (2009)
44. Ursescu M., **Măluțan T**., Ciovică S., Iron gall inks influence on papers' thermal degradation FTIR spectroscopy applications, European Journal of Science and Theology, 5 (3), 71-84, (2009)
45. Muresan E. I., **Măluțan T**., Studies concerning the anion exchange resins catalyzed esterification of epichlorohydrin with organic acids, Chemical Industry & Chemical Engineering Quarterly, 15 (3), 169-174, (2009)
46. Bulgariu L., Bulgariu D., **Măluțan T**., et al.,Adsorption of Lead(II) ions from aqueous solution onto lignin, Adsorption Science & Technology, 27 (4), 435-445, (2009)
47. **Th. Malutan**, Raluca Nicu, and V. I. Popa, Contribution to the study of hydroxymetylation reaction of alkali lignin, BioResources, 3(1), 13-20, (2008)
48. **Măluțan T.,** Nicu R., Popa V. I., Lignin modification by epoxidation, Bioresources, 3 (4), 1371-1376, (2008)
49. Muresan E. I., Oprea S., Hulea V., **Măluțan T**., et al., Kinetic studies for the esterification of acetic acid with epichlorohydrin over an anion exchange resin catalyst, Central European Journal of Chemistry, 6 (3), 419-428, (2008)
50. **Th. Malutan**, A.Pui, Corina Măluţan, Lucia Tătaru and Doina Humelnicu, The Complexation of some Schiff bases with uranium (VI) salts. A fluorescence emission, FT-IR and UV-Vis absorption study, Journal of Fluorescence, 2008, DOI:10.1007/ s10895-008-0339-9 2008, ISSN:1053-0509 (Print) 1573-4994 (Online), ISI 2.61
51. Doina Bilba, Daniela Suteu, **Th. Malutan**, Removal of Reactive Dye Brilliant Red HE-3B from Aqueous Solutions by Hydrolyzed Polyacrylonitrile Fibres: Equilibrium and Kinetics Modelling, Central European Journal of Chemistry, 2008, DOI: 10.2478/s11532-008-0019-2
52. Corina Mocanu, **Th. Măluţan**, S. Ciovică, Synthesis and Characterization of New Cellulose Derivatives in Dimethylacetamide/Lithium Chloride Homogeneous System, Cellulose Chemistry and Technology,1-3, 2008
53. Daniela Suteu, Valeria-Marta Gorduza, O. Toma, **Th. Malutan**, Cellulosic materials functionalized with reactive dyes and metallic ions for biotechnologal separations, Roumanian Biotechnological Letters, Vol. 13, no. 1, 2008, 3567-3574

54. E. I. Muresan, S. Oprea, Th. Malutan, M. Vata, *Esterification of palmitic acid with epichlorohydrin over anion exchange resin catalyst*, Central European Journal of Chemistry, 2007, DOI: 10.2478/s11532-007-0033-9, 5(3), 715-726
55. Tudore Bălău Mîndru, Iulia Bălău Mîndru, **Th. Măluţan**, Vasile Ţura, Electrospinning of high concentration gelatin solutions, Journal of optoelectronics and advanced materials, Vol. 9, No. 11, November 2007, 3633-3638
56. Laura Bulgariu, D. Bulgariu, I. Sarghie, **Th. Malutan**, Cd(II) Extraction in PEG-based two-phase aqueous systems in the presence of iodide ions. Analysis of PEGH-rich solid phases, Central European Journal of Chemistry, 2006, DOI: 10.2478/s11532-006-0048-7
57. E. Poppel, Corina Măluţan, **Th. Măluţan**, Natalia Orleschi, Correlation between the standard, rheological and technological parameters in the Clupak paper Manufacturing, Cellulose Chemistry and Technology, 2000, 34 (1-2), 385-398
58. **Th.Măluţan,** Gh.Rozmarin, Considerations on the hydrolysis of vegetal tissues, Cellulose Chemistry and Technology, 1996, 30 (3-4), 197 – 201
59. Gh.Rozmarin, Gh.Surpăţeanu, **Th.Măluţan**, Study of the Polysaccharides Hydrolysis Mechanism by MNDO Method, Cellulose Chemistry and Technology, 1994, 28 (4), 359 – 368

4. *Lucrări publicate in reviste BDI*

1. Petronela Nechita, **Teodor Măluţan** and Daniela Manea , *Studies Regarding the Influence of Separation Method on Physico-Chemical Properties of Microfibrillated Cellulose Structures,* Buletinul I.P.Iasi, Tomul LV (LIX), fasciculul 2, 2009, pg 55-65
2. Daniela Şuteu, Doina Bîlbă and **Teodor Măluţan**, *Kinetic and Thermodynamic Aspects of the Cationic Dye Removal from Aqueous Solutions onto Fibrous Materials,* Buletinul I.P.Iasi, Tomul LV (LIX), fasciculul 2, 2009, pg 21 – 30
3. Adina-Mirela Căpraru, Valentin I. Popa, Gabriela Lisă and **Th. Măluţan**, *Study regarding the modification of some lignins from annual plant through epoxydation*, , Buletinul I.P.Iasi, Tomul LV (LIX), fasciculul 4, 2009, pg 59 – 68
4. Daniela Suteu, **Th. Malutan**, Gabriela Rusu, *Use of industrial lignin for dye removal from aqueous solution by soption*, Lucrarile Stiintifice, seria Agronomie, USAMV, Iasi, vol.5(1), 2008, ISSN 1454-7414 (Revista cotata BDI http://www.cabi.org/AbstractDatabases.asp?SubjectArea=&Subject=&Section=sc&letter=L&PID=125)
5. Doina Bilba, Daniela Suteu, **Th. Malutan**, *Hydrolyzed polyacrylonitrile fibres for the removal of dyes from textile wastewaters. I. Preliminary testing*, Analele Universitatii din Oradea, fascicula Chimie, Vol. XIV, 2007, 33-37
6. E. Poppel, **Th. Malutan**, Nicoleta Lucia Cotae, *Potential toxic elements in the food wrappings. I. Methodology and methods for the determination of organic and inorganic elements*, Bul. I. P. Iasi, 2006, 51(1-2), 127-134
7. D.Suteu, L.Tofan, **Th.Malutan,** *Residual cellolignine in dyes recovery from aqueous media, Residual cellolignine in dyes recovery from aqueous media*, Ovidius University Annals of Chemistry, 16 (2), 2005, 257-260
8. A.I. Ecsner, M. Popa, Rodica Muresan, N. Hoblea, A. Muresan, **Th. Malutan**, *The improvement of some application properties for cotton fabric through softening and crease resistance treatments. II. Crease resistance treatments*, Bul. Instit. Politeh Iasi, Tomul L (LIV), Fasc. 1-2, sectiunea Textile-Pielarie, 2004, 91-98
9. A. Pui, Mihaela Pui, **Th. Măluţan**, *Formation and stability of iron (II) adducts*, Buletinul Inst. Politehnic Iasi, 2001, tomul XLVII (LI), Fasc 1-2, 79-85
10. A. Pui, **Th. Măluţan**, Mircea-Odin Apostu, Aurora Gref, *Synthesis and Characterization of New Fe(II) Schiff Bases Complexes,* Buletinul Inst. Politehnic Iasi, 2000, Fasc 3-4, 41-46

11. A. Pui, **Th. Măluţan**, Mihaela Pui, *Catalytic properties of some adducts of the coordination compounds of Mn(II),* Buletinul I.P. Iasi, 1999, tom XLV (IL), Fasc. 3-4, 37-42
12. Gh.Rozmarin, Georgeta Cazacu, Aurelia Ioanid, G. Ioanid, C.Toma, Mihaela Nita, Marius - Liviu Craus and **Th.Măluţan,** *Molecular and supermolecular structure of oak furfural lignocellulose,* Buletinul Institutului Politehnic, 1997, tom. XLIII(XLVII), fasc.1-2, 77 – 90

5. *Lucrări publicate in reviste neincluse in baze de date*

1. **Th. Măluţan,** Corina Măluţan, Em. Poppel**,** *Caracterizarea hârtiilor destinate ambalajelor alimentare prin metode instrumentale*, Celuloză şi Hârtie, 57 (4), 32-38, 2008
2. Corina Măluţan, **Th. Măluţan,** Em. Poppel**,** *Elemente potential toxice in hartia de ambalaj pentru alimente. III. Analiza pe fluxul de fabricare a hârtiei*, Celuloză şi Hârtie, 56 (3), 31-38, 2007
3. **Th. Măluţan,** Corina Mocanu, *Cercetări privind obţinerea celulozelor fosforilate*, Celuloza si Hartie, 2007, 56 (1), 38-43
4. T. Bălău Mîndru, Iulia Bălău Mîndru, **Th. Măluţan**, V. Ţura, *Influence of Solvent Mixtures upon Gelatin Nanofibers electrospinning,* Buletinul Institutului Politehnic Iaşi tomul LIII (LVII), Fasc. 5, 2007, Textile Pielărie, 283-290
5. Iulia Bălău Mîndru, T. Bălău Mîndru, V. Ţura, **Th. Măluţan,** *Artificial Leather Based on Chitosan- Glutaraldehide Nanofibers- I. Analysis of Chitosan-Glutaraldehide Nanofibers Obtaining and Uses,* Buletinul Institutului Politehnic Iaşi tomul LIII (LVII), Fasc. 5, 2007, Textile Pielărie, 291-298
6. V. Ţura, T. Bălău Mîndru, Ingrid Bucişcanu, Iulia Bălău Mîndru, **Th. Măluţan,** *Nanofibrillar PVC Membranes with Filtering Properties*, Buletinul Institutului Politehnic Iaşi tomul LIII (LVII), Fasc. 5, 2007, Textile Pielărie, 665-670
7. T. Bălău Mîndru, V. Ţura, **Th. Măluţan**, Ingrid Bucişcanu, Iulia Bălău Mîndru, *Uses Of Polyurethane-Urea Nanofibrillar-Membranes For Wastewater Purification,* Buletinul Institutului Politehnic Iaşi tomul LIII (LVII), Fasc. 5, 2007, Textile Pielărie, 671-680
8. Narcisa Vrînceanu, S. Ciovică, **Th. Măluţan**, C. Fotakis, D. Aglos, P. Pouli, Kristalia Melessanaki, *The influence of lasers irradiation on cellulosic materials belonging to cultural heritage*, Acta Universitatis Cibiniensis, Vol. LIII, Technical series, 2006, 54-61
9. **Th. Malutan**, *Cercetari privind hidroliza enzimatica a materialelor celulozice,* Celuloza si Hartie, 2006, 55(1), 20-26
10. E. Poppel, **Th. Malutan**, Nicoleta Lucia Cotae, V. Ilies, Rodica Laslo, *Elemente potential toxice in hartia de ambalaj pentru alimente. II. Analiza de caz la o fabrica de celuloza si hartie din Romania*, Celuloza si Hartie, 2005, 54(4), 23-30
11. D.Suteu, L.Tofan, **Th.Malutan,** *Residual cellolignine in dyes recovery from aqueous media, Residual cellolignine in dyes recovery from aqueous media*, Ovidius University Annals of Chemistry, 16 (2), 2005, 257-260
12. **Th. Malutan**, *Studiul modificarilor structurale ale ligninelor prin spectroscopie FTIR cu baleiaj de temperatura*, Celuloza si Hartie, 2005, 54(2), 34-38
13. **Th. Măluţan**, A. Pui, *Modelarea matematică a hidrolizei celulozei în condiţii nestaţionare*, Celuloză şi Hârtie, 2004, 53(2), 28-33
14. **Th. Măluţan**, A. Pui, Corina Măluţan, *Aplicaţii ale spectroscopiei ATR-FTIR în domeniul fabricării hârtiei*, Celuloza si Hartie, 2004, 53 (4), 3-8
15. A.I. Ecsner, M. Popa, Rodica Muresan, N. Hoblea, A. Muresan, **Th. Malutan**, *The improvement of some application properties for cotton fabric through softening and crease resistance treatments. II. Crease resistance treatments*, Bul. Instit. Politeh Iasi, Tomul L (LIV), Fasc. 1-2, sectiunea Textile-Pielarie, 2004, 91-98
16. P.P.Obrocea, **Th. Măluţan**, *Cercetări asupra stabilităţii termice a unor celuloze obţinute prin procedeul sulfat cu aditivi*, Celuloză şi Hârtie, 2003, 52(1), 23-28

17. Corina Măluţan, **Th. Măluţan**, Em Poppel, *Studiul calităţii unor hârtii reciclate prin caracterizare reologică comparativă,* Celuloză şi Hârtie, 2003, 52(1), 7-11
18. **Th. Măluţan**, P. P. Obrocea, A. Pui, *Spectroscopia IR a celulozelor obţinute prin procedeul sulfat cu aditivi*, Celuloză şi Hârtie, 2002, 51(4), 17-20
19. A. Pui, Mihaela Pui, **Th. Măluţan**, *Formation and stability of iron (II) adducts*, Buletinul Inst. Politehnic Iasi, 2001, tomul XLVII (LI), Fasc 1-2, 79-85
20. Em. Poppel, **Th. Măluţan**, Irina Obrocea, *Metode de control, optimizare şi simulare computerizată a consumului de aditivi în partea umedă a fabricării hârtiei*, Celuloză şi Hârtie, 2000, 49(4), 15-23
21. Olimpia Ghermec, P. Obrocea, D. Gavrilescu, **Th. Măluţan**, *Corelaţii între proprietăţile hârtiilor componente şi calitatea cartonului ondulat.II. Influenţa calităţii cartonului ondulat asupra unor caracteristici ale cutiilor*, Celuloză şi Hârtie, 2000, 49(1), 42-48
22. D. Gavrilescu, Olimpia Ghermec, P. Obrocea, **Th.Măluţan,** *Corelaţii intre caracteristicile hârtiilor componente şi calitatea cartonului ondulat. I. Influenţa compoziţiei fibroase a hârtiei miez*, Celuloză şi Hârtie, 1999, 48(3), 29-40
23. **Th. Măluţan**, A. Stoleriu, Diana Dumitraş, M.L.Krauss, *Investigarea polimorfismului structural al celulozelor prin metode fizico-chimice*, Celuloză şi Hârtie, 1999, 48(4), 3-13
24. E. Poppel, Z. Lado, Corina Măluţan, I. Mămăligă, **Th. Măluţan**, Irina Obrocea, I. Ibănescu, *Studiul caracteristicior electrocinetice, reologice, hidrodinamice si fizico-mecanice ale pastelor din fibre reciclate*, Celuloză şi Hârtie, 1999, 48(3), 3-14
25. **Th. Măluţan,** *Aspecte cinetice privind prehidroliza cu catalizatori salini,* Celuloză şi Hârtie, 1999, 48 (2), 49-54
26. **Th. Măluţan**, Gh. Severin, *Cercetări privind îmbunătăţirea randamentelor în zaharuri în tratamentele hidrolitice*, Celuloză şi Hârtie, 1999, 48(3), 45-50
27. A. Pui, **Th. Măluţan**, Mihaela Pui, *Catalytic properties of some adducts of the coordination compounds of Mn(II),* Buletinul I.P. Iasi, 1999, tom XLV (IL), Fasc. 3-4, 37-42
28. C. Toma, M. Niţă, **Th. Măluţan**, *Caracterizarea histologică şi compoziţia chimică a endocarpului unor specii de arbori fructiferi, Memoriile Secţiilor Ştiinţifice ale Academiei Române*, 1997 seria IV, tomul XX, 235-256
29. P.Obrocea, D. Gavrilescu, P.P.Obrocea, **Th. Măluţan**, *Delignificarea alcalină prin metode mai puţin poluante. II. Fierberea în mai multe trepte*, Celuloză şi Hârtie, 1998, 47(3), 26-30
30. P.Obrocea, P.P.Obrocea, **Th.Măluţan**, *Delignificarea lemnului de molid prin injecţie de alcalii*, Celuloză şi Hârtie, 1998, 47(1), 19-23
31. **Th.Măluţan**, Gh.Surpăţeanu, *Aplicaţii ale modelării matematice în chimia lemnului*, Celuloză şi Hârtie, 1998, 47(1), 44-52
32. Gh.Rozmarin, H.A.Schneider, Doina Rusei, M.Dărângă, A.Stoleriu, **Th.Măluţan**, Elena-Diana Dumitraş, A.P.Treimanis, I.Danhelka*, O nouă cale de investigare a alomorfilor cristalini ai celulozei : derivatografia termică*, Celuloză şi Hârtie,1997, 46 (2), 35 – 52
33. Gh.Rozmarin, **Th.Măluţan**, *Cercetări privind utilizarea catalizatorilor salini în fabricaţia furfurolului*, Celuloză şi Hârtie, 1996, 45 (2) , 20 – 27
34. Elena Bobu, **Th.Măluţan***, Reciclarea maculaturii hidrorezistente,* Celuloză şi Hârtie, 1996, 45 (1) , 24 – 30
35. Gh.Rozmarin, **Th.Măluţan**, M Bârsan, *Problemele prehidrolizei lemnului. III. Optimizarea prehidrolizei lemnului de plop cu apă*, Celuloză şi Hârtie,1995, 44 (1), 32 – 41
36. Gh.Rozmarin, N.Asandei, S.Ciovică, **Th.Măluţan**, M.Vlaic, *Apercu conceptuel actuel sur les structures de la cellulose.I. Les aquis les plus recents*, Memoriile Secţiilor Ştiinţifice ale Academiei Române, 1995, seria IV, tomul XVIII, 219 - 247
37. Gh.Rozmarin, M.Bârsan, **Th.Măluţan**, *Controlul procesului de prehidroliză a lemnului prin modelare cinetică*, Memoriile Secţiilor Ştiinţifice ale Academiei Române, 1995, seria IV, tomul XVIII, 249 - 259
38. Gh.Rozmarin, **Th.Măluţan**, *Problemele prehidrolizei lemnului. II. Modelarea pe*

calculator, Celuloză şi Hârtie,1994, 43 (4), 28 – 33

39. Gh.Rozmarin, Gh.Surpăţeanu, **Th.Măluţan**, *Reactivitatea celobiozei în prezenţa agenţilor nucleofili şi electrofili*, Memoriile Secţiilor Ştiinţifice ale Academiei Române, 1993, S.IV, tomul XVI, 1, 165 – 171

40. Gh.Rozmarin, **Th.Măluţan**, *Bazele teoretice ale dezincrustării lemnului cu solvenţi organici*, Celuloză şi Hârtie,1993, 42 (3) , 13 - 29

6. *Brevete*

1. *Process for preparing biocomposite materials for manufacturing constructive and functional elements of euro-pallet, involves processing mixture by thermoforming in mold and placing mold between two plates heated at specific range*, Gavrilescu M; Cretescu I; Malutan T; Smaranda C; Puitel A C; Cozma P; Hlihor R; Ghinea C; Simion I; Comanita E; Rosca M, RO133715-A2, (2019)

2. *Obtaining paper cellulose fibers from agricultural plant materials for manufacturing corrugated paper, by performing initial treatment on wheat straw and maize stalks with sodium carbonate solution, processing and sorting materials*, Gavrilescu D A; Puitel A C; Tofanica B M; Nicu R; Malutan T; Ciolacu F; Obrocea P; Panzariu A E, RO133619-A2, (2019)

3. *Multi-purpose chitosan-based materials and process for applying the same in preservation of documentary heritage on paper carrier*, Bobu E, Ciolacu F, Nicu R, Măluţan T. et al., Patent Number: RO131122-A0, (2018)

7. *Lucrari publicate in volume ale manifestarilor stiintifice nationale si internationale:*

1. Cristina Negruţu, D. Gavrilescu, Th. Măluţan
Oxygen Delignification of Softwood Kraft Pulp. Some Characteristics of Dissolved Lignin
Proceedings of 12th International Symposium, Iasi, 1999, sept. 21-23, 68-73

2. Th. Măluţan, S. Ciovică, Ecaterina Rozmarin
Some Aspects Regarding to the Characterization of the Celluloses by Physico-Chemical Methods, Proceedings of 12th International Symposium, Iasi, 1999, sept. 21-23, 16-19

3. E. Poppel, Z. Lado, Corina Măluţan, I. Mămăligă, Th. Măluţan,
Irina Obrocea, I. Ibănescu
Research on Electrokinetic, Rheological, Hydrodynamic and Physico-Mechanical Behaviour of Paperstocks from Recycled Fibers
Proceedings of 12th International Symposium, Iasi, 1999, sept. 21-23, 126-131

4. Th. Măluţan, Corina Măluţan, Carmen-Mihaela Tunu
Reactivity of chemical components of wood in prehydrolysis with salt catalysts
Al III-lea Simpozion International, Brăila 30 mai – 1 iunie, 2000, 1-5

5. Nicoleta Cotae, Th. Măluţan, Valeria Bulai, C. Stanciu, Maria Băcăran, V. Ilieş, Gh. Benea, Em. Poppel
On the determination of toxic substances in food wrap paper
Proceedings of 13th International Symposium, Iasi, 2003, sept. 3-5, 250-259

6. Gh.Rozmarin, V.Găzdaru, Th.Măluţan
Optimizarea regimurilor tehnologice de fabricare a furfurolului prin procedee catalitice şi necatalitice, Lucrările "Conferinţei de chimie şi inginerie chimică", Buc. 20-21 oct. 1995, 4 , 236-240.

7. Rusu I, M.L. Craus, A. Rusu and Th. Măluţan
Solid-Phase Synthesis of Bismuth (III) Complexes with Clarithromycin – Experimental Trials, Proceedings of 12th International Symposium on Pharmaceutical Chemistry, 17-19 September 2003, Istanbul-Turkey, 257-258
8. D. Suteu, Th. Malutan, Equilibrium Study of Metalions Pollutants Sorption from Waste Waters by Cellolignine Sorbent, International Scientific Conference, 24-25 nov. 2005, Gabrovo, Bulgaria
9. Narcisa Vrânceanu, Th. Măluţan, Alina Şovan, Aurelia Grigoriu, S. Ciovică
Evaluarea îmbătrânirii accelerate a materialelor celulozice prin spectroscopie de fluorescenţă, Produse şi tehnologii pentru conservarea patrimoniului cultural şi istoric, ediţia a II-a, Iaşi, 26-27 mai 2006, 129-143
10. S. Ciovica, Narcisa Vrânceanu, Th. Malutan, C. Fotakis, D. Aglos, Paraskevi Pouli, Kristalia Melessanaki, Diana Coman
Influenţa iradierii cu laseri asupra materialelor papetare aparţinând patrimoniului cultural, Conservarea şi restaurarea patrimoniului cultural, vol IV, TRINITAS, 2006, p.86-101, ISBN (10) 973-7834-55-0; ISBN (13) 978-973-7834-55-3
11. V.I.Popa, Th. Malutan**,** Raluca Nicu, Study on hydroxymethylation reaction of alkali lignin, 2007, Proceedings of the 8th Forum ILI, 10-12 may, Rome, Italy, 177-180
12. Daniela Suteu, Doina Bilba, Th. Malutan, Equilibrium and kinetic data concerning the soption of dyes from wastewater onto sawdust, Volumul de lucrări "Materiale si procese inovative", Iasi, 19-21 noiembrie, 2008, 483-490
13. Adina-Mirela Căpraru, Gabriela Lisă, Teodor Măluţan, Valentin I. Popa, Influenţa modificării ligninei asupra stabilităţii sale termice, Volumul de lucrări "Materiale si procese inovative", Iasi, 19-21 noiembrie, 2008, 109-114

8. Comunicări prezentate la diverse simpozioane

1. Coloranţi benzimidazolon - antrachinonici pentru colorarea în masă a PET
V.Gorduza, Th.Măluţan, C.Buceag, O.Şulea
Al IX-lea Simpozion tehnico-ştiinţific, Săvineşti - Piatra Neamţ, 1989
2. Gh.Rozmarin, Gh.Surpăţeanu, Th.Măluţan
Reactivitatea substanţelor model ai complecşilor CLPZ în condiţiile hidrolizei acide
Simpozionul de chimie "Progrese în tehnologie chimică", Iaşi 25 - 27 oct, 1994
3. C.Oniscu, E.Horoba, Th.Măluţan
Studiul teoretic şi experimental al esterificării acizilor fenoxi - γ - butirici cu alcoolul etilic
Simpozionul de chimie "Progrese în tehnologie chimică", Iaşi 25 - 27 oct, 1994
4. Gh.Rozmarin, Gh.Surpăţeanu, Th.Măluţan, Gh.Severin
Reactivitatea compuşilor model ai ligninei în mediu acid
Simpozionul Internaţional de chimia şi tehnologia celulozei, Iaşi,17 – 21 sept., 1995
5. P.Obrocea, D. Gavrilescu, Paul P. Obrocea, Th. Măluţan
Delignificarea sulfat in condiţii mai puţin poluante
Conferinţa Facultăţii de chimie Industrială, Iaşi, 23-25 oct.,1997
6. P.Obrocea, P.P.Obrocea, Th.Măluţan
Delignificarea prin injecţie de alcalii, Al IV-lea Simpozion "Someş", 7 - 9 mai, 1997
7. G. Cazacu, R. Lipşa, Th. Măluţan
Aspecte asupra unor reacţii de modificare ale ligninelor
A 14-a Sesiune de Comunicări Ştiinţifice "Progrese în ştiinţa compuşilor organici şi macromoleculari", Iaşi, 28-30 sept., 2000
8. Th. Măluţan, J. P. Grolier, S. Randzio

Studiul polimerilor prin *scanning transitiometry*
Conferinţa Facultăţii de Chimie Industrială, Iaşi, 13-15 nov,2002
9. Irina Obrocea, Paul P.Obrocea, Th. Măluţan, Em.Poppel
Metodă de evaluare a floculării în condiţii dinamice la aditivarea suspensiilor fibroase
Conferinţa Facultăţii de Chimie Industrială, Iaşi, 13-15 nov,2002
10. Th. Malutan, Modeling and Simulation of Delignification Process comunicare prezentata la cel de-al 8-lea Simpozion, Dej, mai 2003
11. Th. Malutan, Em. Poppel
Problematica fabricarii si controlului calitatii ambalajelor papetare destinate contactului direct cu alimentele
Al V-lea Seminar romano-italian de celuloza si hartie "Dezvoltare si competitivitate", Iasi, 8-10 sept. 2004
12. Corina Mocanu, S. Ciovică, Th. Măluţan, Alina Murariu, K. Pielichowski, „Obtinerea unui compozit biodegradabil pe baza de celuloza si acid poliaspartic", Zilele Facultăţii de Inginerie Chimică, 24-25 noiembrie 2005
13. Alina Murariu, S. Ciovică, Th. Măluţan, Corina Mocanu, C. Murariu, K. Pielichowski, „Iradierea cu microunde -o noua alternativa in sinteza materialelor biopolimerice" , Zilele Facultăţii de Inginerie Chimică, 24-25 noiembrie 2005, Iasi
14. Corina Mocanu, S. Ciovică, Th. Măluţan, A. Murariu, "Sisteme omogene pentru functionalizarea celulozei- prezent si perspective", Tehnologii nepoluante pentru industria de celuloză şi hârtie, al IV-lea Simpozion Internaţional, Brăila, 5-7 sept. 2006
15. Tatiana Todorciuc, Valentin I. Popa, Th. Malutan, "Complexarea polifenolilor naturali cu ioni metalici", al IV-lea Simpozion Internaţional, Brăila, 5-7 septembrie 2006
16. V. I. Popa, Th. Malutan, F. Ciolacu, "Utilizarea rasinilor furanice si a adezivilor ligninici in industria hartiei si cartonului", al IV-lea Simpozion Internaţional, Brăila, 5-7 septembrie 2006
17. A. Grigoriu, N. Vrinceanu, G.E. Grigoriu, T. Malutan, A. Sovan, M.Grigoriu, V. Blascu, Effects of photonic tratments upon cellulosic textile materials, 41 st IUPAC Congress, August 5-11, Turin, Italy, 2007
18. Daniela Suteu, Th. Malutan, Gabriela Rusu
Use of industrial lignin for dye removal from aqueous solution by soption
The 51st Scientific Conference, Romania, Iasi, 16-18 oct, 2008
19. M. Geba, A. Vlad, D. V. Manea And **Th. Malutan**, *Non-destructive investigation on a 17-th century Doctor diploma*, TECHNART 2009, Conference "Non-destructive and Microanalytical Techniques in Art and Cultural Heritage", Athens, 27 - 30 April 2009, p.159

9. Contracte de cercetare, granturi

Director:

1. *Noi materiale cu proprietăți optice pentru hârtie securizată (Novel materials with optical properties for anti-counterfeiting paper) (OPTIPAPER),* director proiect Teodor Măluţan, *Contract: 497PED / 02/11/2020, PN-III-P2-2.1-PED-2019-4825, Valoare 600.000 lei, 2020-2022*
2. *Biocompozite din resurse regenerabile – Cercetări și soluții avansate pentru creșterea eficienței energetice a clădirilor – Bio4Build*", responsabil proiect TUIASI Teodor Malutan, Valoare 287500 lei, 2014-2017
3. *Strategii de cercetare privind evaluarea starii de conservare si implementarea de noi materiale si tehnici in restaurarea si conservarea cartilor si documentelor*

vechi in vederea asigurarii perenitatii mostenirii culturale la nivel comunitar, director proiect Teodor Măluţan, UEFSCDI, Valoare 729053 lei, 2008-2011

4. *Caracterizarea hartiilor si cartoanelor destinate ambalajelor alimentare*, director proiect Teodor Măluţan, MEN, Valoare 45 000 lei, 2006-2008

Membru in echipa de cercetare

1. *Cercetări privind obţinerea fibrelor chimice din celuloză prin tehnologii neconvenţionale*, 1995, Gh. Rozmarin, N. Asandei, S. Ciovica, Th. Malutan
Beneficiar S.C. "CEPROHART" S.A. Braila
2. *Optimizarea parametrilor tehnologici la prepararea pastei din maculatură pentru obţinerea hârtiei miez şi capac*, 1995, Elena Bobu, Th. Măluţan
S.C. Hicart S.A. Prundu Bârgăului
3. *Sisteme nepoluante de delignificare a lemnului şi înălbire neconvenţională a celulozei*, 1997, P.Obrocea, Valentin I.Popa, D.Gavrilescu, Elena Bobu, Th.Măluţan, P.P.Obrocea, Beneficiar MCT
4. *Obţinerea celulozei în condiţii compatibile cu mediul ambiant*, 1997
P.Obrocea, Valentin I.Popa, D.Gavrilescu, Th.Măluţan, P.P.Obrocea,
Beneficiar MEN
5. *Cercetări privind elaborarea unei tehnologii de înălbire mai puţin poluante la S.C. "Someş" S.A. Dej*, 1997
D.Gavrilescu, P.Obrocea, V.I.Popa, Elena Bobu, Th.Măluţan, P.P.Obrocea,
Beneficiar S.C."Someş" S.A. Dej
6. Consultanţă tehnică de specialitate la fabricarea celulozei şi hârtiei, 1998
P. Obrocea, Elena Bobu, V.I.Popa, D.Gavrilescu, Th.Măluţan, F.Ciolacu, P.P.Obrocea
Beneficiar: S.C. "SOMES" S.A. Dej
7. Cercetări privind obţinerea celulozelor în condiţii compatibile cu mediul Ambiant, 1998
P.Obrocea, V.I.Popa, Elena Bobu, D.Gavrilescu, Th.Măluţan, P.P.Obrocea
Beneficiar: M.E.N
8. Studiul corelaţiilor dintre compoziţia pastei, tehnologia de preparare şi calitatea cartonului ondulat, 1998
P.Obrocea, D.Gavrilescu, Th.Măluţan, P.P.Obrocea,
Beneficiar: S.C."CELROM" S.A. Tr.Severin
9. Sisteme nepoluante de delignificare a lemnului şi înălbire neconvenţională a celulozei, 1998
P.Obrocea, V.I.Popa, Elena Bobu, D.Gavrilescu, Th.Măluţan, P.P.Obrocea
Beneficiar: M.C.T
10. Cercetari privind comportarea reologica a suspensiilor fibroase convenţionale şi descernelizate şi determinarea caracteristicilor fizico-mecanice ale hârtiei, 1998
Em.Poppel, Corina Măluţan, I.Mămăligă, Irina Obrocea, Th.Măluţan, S.Ciovică
Beneficiar: S.C."CEPROHART" S.A. Brăila
11. *Proprietăţile hârtiei de ziar şi factorii de care depind,* 1999
P. Obrocea, D. Gavrilescu, Th. Malutan, P.P.Obrocea
Beneficiar: S.C. LETEA S. A. Bacău
12. *Cercetări privind noi metode de delignificare a lemnului. Delignificarea cu oxigen*,1999
P. Obrocea, D. Gavrilescu, Th. Malutan, P.P.Obrocea
Beneficiar: Ministerul Educaţiei Naţionale

13. *Cercetări privind obţinerea de compozite pe bază de materiale celulozice şi ligninice,* 1999
V.I. Popa, P. Obrocea, D. Gavrilescu, Th. Malutan, P.P.Obrocea
Beneficiar: A.N.S.T.I.
14. *Noi corelaţii între compoziţia hârtiei miez şi calitatea cartonului ondulat*, 1999
P. Obrocea, D. Gavrilescu, Th. Malutan
Beneficiar; S. C. CELROM S. A. Drobeta Turnu-Severin
15. *Sisteme nepoluante de delignificare a lemnului şi înălbire neconvenţională a celulozei*, 1999
D. Gavrilescu, P. Obrocea, V.I. Popa, Th. Malutan, P.P.Obrocea
Beneficiar: A.N.S.T.I.
16. *Cercetări privind obţinerea de compozite pe bază de materiale celulozice şi ligninice*, 2000
V.I. Popa, P. Obrocea, D. Gavrilescu, Th. Malutan, P.P.Obrocea, Beneficiar: A.N.S.T.I.
17. *Soluţii tehnice alternative de depoluare externă şi de reconstrucţie ecologică pentru factorul de mediu-sol,* 2000
V.I. Popa, P. Obrocea, D. Gavrilescu, Th. Malutan, P.P.Obrocea, Beneficiar: A.N.S.T.I.
18. *Tehnologii de valorificare chimica a deşeurilor de lemn, coajă şi rumeguş*, 2000
D. Gavrilescu, P. Obrocea, V.I. Popa, Th. Malutan, P.P.Obrocea, Beneficiar: A.N.S.T.I.
19. *Soluţii tehnice pentru îmbunătăţirea performanţelor instalaţiei de fabricare a celulozei etapa a II-a la S.C. CELHART-DONARIS S.A. Brăila*, 2002
D. Gavrilescu, P. Obrocea, V.I. Popa, Th. Malutan, P.P.Obrocea
Beneficiar: S.C. "CEPROHART" S.A. Brăila
20. *Dezvoltarea si implementarea unui ghid de buna practica in industria ambalajelor papetare destinate contactului direct cu alimentele*, S.C. Somes S.A., Dej, 2003,
Em. Poppel, Th. Malutan, Nicoleta Cotae, Corina Malutan
Beneficiar: S.C. Somes S.A., Dej
21. *Dezvoltarea si implementarea unui ghid de buna practica in industria ambalajelor papetare destinate contactului direct cu alimentele*, S.C. Somes S.A., Dej, 2004
Em. Poppel, Th. Malutan, Beneficiar: S.C. Somes S.A., Dej
22. *Nanomateriale inteligente fotosensibile, aplicabile in monitorizarea proceselor biotehnologice, biocontrol alimentar, cosmetic si farmaceutic sau teste medicale si citogenetice*, MEC, 2004
Valeria-Marta Gorduza, Silvia Curteanu, Th. Malutan, Corina Cernatescu
23. *Noi derivati de lignina, sinteza, caracterizare, proprietati, domenii de aplicatii, IFA*, 2004, Valentin I. Popa, Th. Măluţan
24. *Biocompozite polimerice din resurse regenerabile pentru aplicatii de varf*, CEEX-CNCSIS, BICOP, 2005, Dan Gavrilescu, V. I. Popa, Th. Malutan, P.P.Obrocea
25. *ECOBINDERS-Furan and lignin based resins as eco-friendly and durable solutions for wood preservation, panel, board and design products", NMP2-CT2005-011734, CE, 2005,* V. I. Popa, Th. Malutan, F. Ciolacu
26. *Lignina - sursa de materii prime pentru combustibili neconventionali, energie, produse chimice si materiale performante in conditiile dezvoltarii durabile*
CEEX-CNCSIS, LIGNOMAT, 4153/2006
V. I. Popa, Th. Malutan, F. Ciolacu

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Inginerie Chimică

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Titlul: DOCTOR in Inginerie Chimică, diploma seria B nr. 0004203, Ordin MEC 3467/16.03.2001

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Doctor Habilitat în domeniul Inginerie Chimică, Teza de abilitare: DESIGN OF HIGH PERFORMING MATERIALS WITH INCREASED THERMAL STABILITY: STRUCTURE-PROPERTY RELATIONSHIP AND DEGRADATION MECHANISM, susţinere publică ianuarie 2017, atestatul de abilitare nr. 3667/13.04.2017 acordat de Ministerul Educaţiei Naţionale

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Dan Scutaru, Irina Carlescu, Elena-Raluca Bulai (Cioanca), Catalina Ionica Ciobanu, **Gabriela Lisa** and Nicolae Hurduc, Bent-Core Liquid Crystals: Structures and Mesomorphic Properties, IntechOpen, DOI: 10.5772/intechopen.81704, In book: Liquid Crystals - Self-Organized Soft Functional Materials for Advanced Applications, 2019.
2. Irina Carlescu, Daniela Apreutesei Wilson, **Gabriela Lisa**, Nicolae Hurduc and Dan Scutaru, Advances in Organic Synthesis (Volume 12) Edited by Atta-ur-Rahman, FRS, Bentham Science Publishers ISBN (Print): 978-1-68108-683-5, ISSN (Print): 1574-0870, Sharjah, UAE, 2018

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Gabriela Lisa, Chimie fizic[3. Sisteme polidisperse, Ed. PERFORMANTICA, Iaşi, 141 p, (ISBN 978-630-328-201-5), **2026**
Gabriela Carja, **Gabriela Lisa**, Mihaela Vizitiu, Chimie Fizica prin lucrari de laborator si aplicatii, Ed. PERFORMANTICA, Iaşi, 186 p, (ISBN 978-606-685-551-8), **2017**.
2. **Gabriela Lisa**, Chimie fizică 2. Cinetică, Ed. PERFORMANTICA, Iaşi, 160 p, (ISBN 978-606-685-447-4). **2016**
3. Gabriela Lisa *Chimie fizică 1. Termodinamică*, Ed. PERFORMANTICA, Iaşi, 176 p, **2008**, (ISBN 978-973-730-555-8)
4. Gabriela Lisa, N. Hurduc,*Cinetică chimică*, Ed. PERFORMANTICA, Iaşi, 290 p, **2006**, (ISBN 973-730-190-0)
5. S.Curteanu, **Gabriela Lisa**, N.Aelenei, *Aplicaţii de chimie fizică rezolvate în Mathcad*, Ed. MATRIX ROM, Bucuresti, 405 p**, 2002** (ISBN 973-685-473-6)
6. Gabriela Lisa *Probleme de chimie fizică*, Ed. PERFORMANTICA, (editură recunoscută CNCSIS) Iaşi, **116** p.,2008 (ISBN 978-973-730-562-6)

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1.M. Popa, N.Aelenei, G.Carja, **Gabriela Lisa**, D.Mareci, M.Irimia, G.Bolat, G.Ungureanu, M. Frunza, C. Bocanu *Chimie fizica. Caiet de laborator*, 95 pg. 2005, Ed.PIM, Iaşi

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Lisa Gabriela**, Curs chimie fizică 3, in sistem e-learning, 2020, 115 pagini
https://sites.google.com/academic.tuiasi.ro/prof-gabriela-lisa/chimie-fizica-3
2. Lisa Gabriela, **Curs Chimia fizica a sistemelor omogene si disperse in sistem e-learning 80 pagini, 2020**
https://sites.google.com/academic.tuiasi.ro/prof-gabriela-lisa/sisteme-omogene
3. Gabriela Lisa, Teste format electronic pentru pregătirea examenului de Chimie fizică 1. Termodinamică, 2016, 19 pagini
4. Gabriela Lisa, Teste format electronic pentru pregătirea examenului de Chimie fizică 2. Cinetică, 2015, 20 pagini

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI

Lucrări ştiinţifice (titlul lucrării, autori (nume iniţiala prenume.,) titlul jurnalului (full), volum (numar) pagini, (anul publicării))

1. Tailoring thermal, structural, and photocatalytic properties of electrospun poly(ether ether ketone) nanocomposite membranes through TiO2 integration, Serbezeanu, D; Vlad-Bubulac, T; Rusu, D; Lisa, G; Lupa, L; Cocheci, L, JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2026, 14(1), 121000, http://doi.org/10.1016/j.jece.2025.121000, Q1.
2. Experimental Valorization of Recycled Palm Oil in Topical Formulations: Preparation, Characterization, and Antimicrobial Assessment, Rusu, P; Creteanu, A; Ipate, AM; Danu, M; Zaltariov, MF; Rusu, D; Tuchilus, CG; Tantaru, G; Lisa, G, MOLECULES, 2026, 31(2), 335, http://doi.org/10.3390/molecules31020335, Q2
3. Studies on energy recovery from microalgae and plants wastes, Postolache, LV (; Soreanu, G; Cretescu, I; Tudorachi, N; Rusu, D; Zaltariov, MF; Anghel, I; Preda, DM; Lisa, G, BIOMASS & BIOENERGY, 2026, 206, 108586, http://doi.org/10.1016/10.1016/j.biombioe.2025.108586, Q1
4. Thermal degradation mechanism and isothermal sublimation kinetics of DDMEBT: Structure-property correlations for process optimization, Nistor, L; Lisa, C; Michinobu, T; Lisa, G, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2025, 39, 7261-7276, http://doi.org/10.1016/j.jmrt.2025.11.046, Q1
5. Chrome–Polymer Composite as a Precursor for Obtaining a Sorbent with Selective Properties, Gutsanu V, Ipate A.-M., Lisa G. Botnaru M., Colloid Journal, 2025, 3, 87, 408-422, http://doi.org/10.1134/S1061933X25600447, Q4
6. Study on the Structure, Thermal Properties and Antibacterial Properties of Phosphorus-Modified PVA/TiO2 Composite Films, Ipate, AM; Serbezeanu, D ; Iftimie, IA; Lisa, G; Rîmbu, CM; Vlad-Bubulac, T, Gels, 2025, 11, 12, 1020, http://doi.org/10.3390/gels11121020, Q1
7. Valorisation of Recycled Cotton as Reinforcement in Recycled Polypropylene Composites, Ichim M, Muresan E I, Lisa G, Ciolacu F, Puițel AC, Textiles, 2025, 4, 5, 57, http://doi.org/10.3390/textiles504005, Q1
8. Multifaceted Nanocomposites Combining Phosphorylated PVA, MXene, and Cholesteric Liquid Crystal: Design and Application Insights, Vlad-Bubulac, T; Serbezeanu, D; Perju, E; Suflet, DM ; Rusu, D; Lisa, G; Filip, TA; Olariu, MA, NANOMATERIALS, 2025, 15(16), 1251, http://doi.org/10.3390/nano15161251 Q2.
9. Alternative energy sources from wastes and microalgae Chlorella vulgaris used for the capture of atmospheric CO2 in the production of cement, Postolache, LV; Soreanu, G; Cretescu, I; Tudorachi, N; Anghel, I; Preda, DM; Rusu, D; Zaltariov, MF; Valverde, JL; Lisa, G, MATERIALS TODAY SUSTAINABILITY, 31, 2025, 101175 http://doi.org/10.1016/j.mtsust.2025.101175 Q1
10. Fire-starting briquettes with high spent coffee-ground content and various wax types, Bejenari, V; Rusu, D; Anghel, I; Sofran, IE; Lisa, G, BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR, 2025, http://doi.org/10.1002/bbb.2810, Q2

11. Long-Term Physical and Chemical Stability and Energy Recovery Potential Assessment of a New Chelating Resin Used in Brine Treatment for Chlor-Alkali Plants, Lazar, L; Postolache, LV; Danilova, V; Coman, D; Bele, A; Rusu, D; Zaltariov, MF; Lisa, G, POLYMERS, 17(11), 2025, 1575, http://doi.org/10.3390/polym17111575, Q1
12. Assessment of Hedera helix response in polluted environment through cross-advanced investigation techniques, Lisa, G; Cretescu,; Tanase, C; Mardari, C; Tudorachi, N; Enache, AC; Samoila, P; Soreanu, G, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 150 (12) 2025, 9181-9194 http://doi.org/10.1007/s10973-025-14312-7, Q2
13. Lignin as a Bioactive Additive in Chlorzoxazone-Loaded Pharmaceutical Tablets, Creteanu, A; Lisa, G; Vasile, C; Popescu, MC; Pamfil, D; Panainte, AD; Tantaru, G; Vlad, MA; Lungu, CN, MOLECULES, 30(7) 2025, 1426, http://doi.org/10.3390/molecules30071426 Q2
14. Exploring the applicative potential of polyimides containing DOPO-functionalized triazine through straightforward blending technique, Butnaru, I; Asandulesa, M; Lisa, G; Jankowski, A; Damaceanu, MD, JOURNAL OF MATERIALS SCIENCE, 60(11) 2025, 5280-5299 http://doi.org/10.1007/s10853-025-10751-7, Q2
15. Effects of the Central Unit Structure, Lateral Substitution and Symmetry on the Mesomorphic Behavior of Some Bent-Core Azoester Derivatives, Ciobanu, CI; Epure, EL; Soroaga, L,; Simion, A; Lisa, G; Carlescu, I, CHEMISTRYOPEN, 14(7), 2025, e202400454. http://doi.org/10.1002/open.202400454, Q2
16. Analysis of the thermal behaviour of various wastes co-processed in cement plants, Postolache, LV; Soreanu, G; Cretescu, I; Lisa, G, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 24(1) 2025, 211-221, http://doi.org/10.30638/eemj.2025.017, Q4
17. Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy, Gabriela Lisa, Igor Cretescu, Catalin Tanase, Constantin Mardari, Nita Tudorachi, Andra-Cristina Enache, Petrisor Samoila, Gabriela Soreanu, Renewable and Sustainable Energy Reviews, Volume 207, 2025, 114890, https://doi.org/10.1016/j.rser.2024.114890, Q1
18. Composite Materials Based on Spent Coffee Grounds and Paper Pulp. Bejenari, V.; Danu, M.; Ipate, A.-M.; Zaltariov, M.-F.; Rusu, D.; Lisa, G. J. Compos. Sci. 2024, 8, 491. https://doi.org/10.3390/jcs8120491, Q2
19. Thermodynamic properties of binary, ternary and quaternary mixtures: N-butyl acetate- n-hexanol - n,n-dimethylacetamide-water. Modeling using regression algorithms and optimization using socially-inspired evolutionary algorithms, Iuliana Bîrgăuanu, Marius Gavrilescu, Florin Leon, Silvia Curteanu, Gabriela Lisa, Journal of the Taiwan Institute of Chemical Engineers, Volume 165, 2024, 105796, https://doi.org/10.1016/j.jtice.2024.105796. Q1
20. Evaluation of natural ageing of alkyd paints used for wood protection, Andreea Mihăilă, Alina-Mirela Ipate, Mirela-Fernanda Zaltariov, Daniela Rusu, Mihaela Balan-Porcarasu, Iuliana Stoica, Gabriela Lisa, Polymer Degradation and Stability, Volume 229, 2024, 110947. https://doi.org/10.1016/j.polymdegradstab.2024.110947. Q1
21. Tailoring the Structure and Physico-Chemical Features of Cellulose-Based Hydrogels Using Multi-Epoxy, Crosslinking Agents Nicu, R.; Lisa, G.; Darie-Nita, R.N.; Avadanei, M.I.; Bargan, A.; Rusu, D.; Ciolacu, D.E. Gels 2024, 10, 523. https://doi.org/10.3390/ gels10080523 Q1
22. New Hydrophilic Matrix Tablets for the Controlled Released of Chlorzoxazone, Creteanu, A.; Lisa, G.; Vasile, C.; Popescu, M.-C.; Pamfil, D.; Lungu, C.N.; Panainte, A.D.; Tantaru, G.. Int. J. Mol. Sci. 2024, 25, 5137. https://doi.org/10.3390/ ijms25105137 Q1
23. Experimental Study on the Reaction of Magnesium in Carbon Dioxide and Nitrogen Atmosphere Barabulica, I.; Secula, M.S.; Asoltanei, A.M.; Iacob-Tudose, E.T.; Lisa, G.; Mamaliga, I.. ChemEngineering 2024, 8, 41. https://doi.org/10.3390/ chemengineering8020041 Q2

24. Enhancing flame retardancy and optical functionality in multifunctional devices through advanced design of phosphorus-containing copoly(imide-oxadiazole)s, Serbezeanu, Diana; Homocianu, Mihaela, Lisa, Gabriela; Hamciuc, Corneliu, JOURNAL OF APPLIED POLYMER SCIENCE 2024,141 (7), DOI,10.1002/app.55284, Q2
25. Exploring innovative synthetic solutions for advanced polymer-based electrochromic energy storage devices: Phenoxazine as a promising chromophore, Constantin C-P, Balan-Porcarasu M., Lisa G., Journal of Energy Chemistry 91 (2024) 433–452 Q1
26. Thermal stability and degradation mechanism of C60 fullerene-based polymers Lisa G, Cleminte CI, Michinobu T, , JOURNAL OF APPLIED POLYMER SCIENCE, 2024, 141(11) e55079. Q2
27. Modeling of excess molar volume for binary and ternary mixtures of benzyl alcohol, n-hexanol and water Bîrgăuanu I, Lisa C, Leon F, Curteanu S, Lisa G, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, (12), 22, 2023, 2157-2164.Q4
28. Metal/Carbon Composites: Precursors for Obtaining New Sorbents-Catalysts Gutsanu, V., Petuhov, O., Ipate, AM., Lisa G, Botnaru M.,. Colloid J (2023). https://doi.org/10.1134/S1061933X23600537, ISSN 1061-933X, Colloid Journal, 2023, vol 85(6) 871 – 888, Q4
29. Development of Solid Lipid Nanoparticles for Controlled Amiodarone Delivery Creteanu A, Lisa G, Vasile C, Popescu M-C, Spac AF, Tantaru G, Methods and Protocols, Volume 6, Issue 5October 2023 Article number 97. Q3
30. Simultaneous Enhancement of Flame Resistance and Antimicrobial Activity in Epoxy Nanocomposites Containing Phosphorus and Silver-Based Additives Vlad-Bubulac T, Hamciuc, C, Serbezeanu D, Macsim AM, Lisa, G Anghel I, Preda, DM, Kalvachev Y, Rimbu CM, , Molecules, 28 (15), 2023, 5650, DOI: 10.3390/molecules28155650 Q2
31. Flame-Resistant Poly(vinyl alcohol) Composites with Improved Ionic Conductivity Serbezeanu D, Hamciuc C, Vlad-Bubulac T, Ipate AM, Lisa G, Turcan I, Olariu MA, Anghel I, Preda DM, Membranes, 13 (7), 2023, 636, DOI:10.3390/membranes13070636 Q2
32. Organophosphorus Reinforced Poly(vinyl alcohol) Nanocomposites Doped with Silver-Loaded Zeolite L Nanoparticles as Sustainable Materials for Packaging Applications, Vlad-Bubulac, Tachita ; Hamciuc, Corneliu; Serbezeanu, Diana; Suflet, Dana Mihaela ; Rusu, Daniela; Lisa, Gabriela; Anghel, Ion; Preda, Dana-Maria; Todorova, Totka; Rimbu, Cristina Mihaela, Polymers 2023, 15, 2573. https:// doi.org/10.3390/polym15112573. WOS:001005603500001 Q1
33. Structural and flame retardancy properties of GO-DOPO-HAK composite, Mihis Alin Grig, Cotet Liviu Cosmin, Cadar Calina, Pop Lucian Cristian, Todea Milica, Rusu Mihai Marius, Vulpoi Adriana, Székely István, Sălăgean Cătălin Alexandru, Magyari Klara, Muresan-Pop Marieta, Cadar Oana, Baia Monica, Sofran Ioana Emilia, Lisa Gabriela, Anghel Ion, Baibarac Mihaela, Danciu, Virginia, Baia Lucian, Journal of Materials Science, 58(16), 7025 – 7047. 10.1007/s10853-023-08456-w, WOS:000970927100002 Q2
34. Recycling of Nonwoven Waste Resulting from the Manufacturing Process of Hemp Fiber-Reinforced Recycled Polypropylene Composites for Upholstered Furniture Products, Ichim Mariana, Filip Ioan, Stelea Lucia, Lisa, Gabriela, Muresan Emil Ioan, Sustainability (Switzerland), 2023, 15(4), Art. number 3635. 10.3390/su15043635. WOS:000942068200001 Q2
35. Polyimide-Derived Supramolecular Systems Containing Various Amounts of Azochromophore for Optical Storage Uses, Barzic, Andreea Irina, Sava Ion, Albu Raluca Marinica, Ursu Cristian, Lisa Gabriela, Stoica Iuliana, Polymers, 2023, 15(4) art number 1056, 10.3390/polym15041056.WOS:000941763600001 Q1
36. Cobalt Ferrite/Polyetherimide Composites as Thermally Stable Materials for Electromagnetic Interference Shielding Uses, Asandulesa, Mihai, Hamciuc, Corneliu, Pui, Aurel, Virlan, Constantin, Lisa, Gabriela, Barzic, Andreea Irina, Oprisan, Bogdan,

International Journal of Molecular Sciences, 2023, 24 (2), art number 999. 10.3390/ijms24020999 WOS:000915521100001 Q1

37. Eco-friendly flame retardant epoxy nanocomposites based on polyphosphonate and halloysite nanotubes Hamciuc C, Vlad-Bubulac T, Serbezeanu D, Lisa G, Anghel I, Preda DM, Journal of Vinyl and Additive Technology, 29 (1), 29 – 40, 2023. Doi: 10.1002/vnl.21940 Q1
38. Electrospun Nanofibers Based on Polymer Blends with Tunable High-Performance Properties for Innovative Fire-Resistant Materials. Serbezeanu, D.; Hamciuc, C.; Vlad-Bubulac, T.; Onofrei, M.-D.; Bargan, A.; Rusu, D.; Suflet, D.M.; Lisa, G. Polymers 2022, 14, 5501. https://doi.org/ 10.3390/polym14245501.WOS:000904369400001 Q1
39. Thermal Properties and Flammability Characteristics of a Series of DGEBA-Based Thermosets Loaded with a Novel Bisphenol Containing DOPO and Phenylphosphonate Units. Hamciuc, C.; Vlad-Bubulac, T.; Serbezeanu, D.; Macsim, A.-M.; Lisa, G.; Anghel, I.; Sofran, I.-E. Materials 2022, 15, 7829. https://doi.org/10.3390/ ma15217829, WOS:000883912800001 Q1
40. Tailoring Thermal and Electrical Properties of Jeffamine Segmented Polyetherimide Composite Films Containing BaTiO3 particles. Hamciuc, C.; Lisa, G.; Serbezeanu, D.; Gradinaru, L.M.; Asandulesa, M.; Tudorachi, N.; Vlad-Bubulac, T. Polymers 2022, 14, 4715. https://doi.org/10.3390/ polym14214715.WOS:000883960600001 Q1
41. Optical and Flame-Retardant Properties of a Series of Polyimides Containing Side Chained Bulky Phosphaphenanthrene Units. Homocianu, M.; Serbezeanu, D.; Lisa, G.; Brebu, M.; Vlad-Bubulac, T. Int. J. Mol. Sci. 2022, 23, 13174. https://doi.org/10.3390/ ijms232113174. WOS:000881250200001 Q1
42. Thermal behavior, decomposition mechanism by TG/MS/FTIR technique and theoretical study of some symmetric and asymmetric bent-core liquid crystals based on 2,7-dihydroxynaphthalene, Epure Elena-Luiza, Lisa Gabriela, Simion Gheorghe, Simion Aurel, Ciobanu Catalina Ionica, Carlescu, Irina, Journal of Thermal Analysis and Calorimetry, Volume 147, Issue 21, Pages 12033 - 12045November 2022 WOS:000805054700003 Q2
43. Evaluation of the Sublimation Process of Some Purine Derivatives: Sublimation Rate, Activation Energy, Mass Transfer Coefficients and Phenomenological Models. Cleminte, C.-I.; Ionita, D.; Lisa, C.; Cristea, M.; Mamaliga, I.; Lisa, G. Materials 2022, 15, 7376. https://doi.org/10.3390/ ma15207376. WOS:000875382700001 Q1
44. Effects of Phosphorus and Boron Compounds on Thermal Stability and Flame Retardancy Properties of Epoxy Composites. Hamciuc, C.; Vlad-Bubulac, T.; Serbezeanu, D.; Macsim, A.-M.; Lisa, G.; Anghel, I.; ¸Sofran, I.-E. Polymers 2022, 14, 4005. https://doi.org/10.3390/ polym14194005. WOS:000867078900001 Q1
45. Thermal and Mechanical Characterization of Coir Fibre–Reinforced Polypropylene Biocomposites. Ichim, M.; Stelea, L.; Filip, I.; Lisa, G.; Muresan, E.I. Crystals 2022, 12, 1249. https://doi.org/10.3390/ cryst12091249. WOS:000858137900001 Q2
46. Moving towards Valorization of Biowastes Issued from Biotrickling Filtration of Contaminated Gaseous Streams: A Thermochemical Analysis-Based Perspective. Lisa, G.; Anghel, I.; Preda, D.-M.; Lisa, C.; Cretescu, I.; Buciscanu, I.I.; Diaconu, M.; Soreanu, G. Sustainability 2022, 14, 10737. https://doi.org/10.3390/ su141710737. WOS:000851806000001, Q2
47. Viscosity Deviation Modeling for Binary and Ternary Mixtures of Benzyl Alcohol-N-Hexanol-Water. Bîrgauanu, I.; Danu, M.; Lisa, C.; Leon, F.; Curteanu, S.; Ibanescu, C.; Lisa, G. Materials 2022, 15, 5699. https://doi.org/ 10.3390/ma15165699. WOS:000845419700001, Q1
48. Phosphorylated Poly(vinyl alcohol) Electrospun Mats for Protective Equipment Applications. Serbezeanu, D.; Vlad-Bubulac, T.; Onofrei, M.D.; Doroftei, F.; Hamciuc, C.; Ipate, A.-M.; Anisiei, A.; Lisa, G.; Anghel, I.; ¸Sofran, I.-E.; Popescu V. 2022, Nanomaterials, 12, 2685. https://doi.org/10.3390/ nano12152685 WOS:00083984360000, Q2
49. Thermal characterization and rheological behavior of some varnishes and paints used for wood protection, Mihăilă A., Danu M., Ibănescu C., Anghel I., Şofran I.-E.,

Balanescu L.V., Tudorachi N., Lisa G, , International Journal of Environmental Science and Technology Volume 19, Issue 7, Pages 6299 - 6314July 2022. DOI 10.1007/s13762-021-03579-6. WOS:000681548300001 Q2

50. Characterisation of Hemp Fibres Reinforced Composites Using Thermoplastic Polymers as Matrices. Stelea, L.; Filip, I.; Lisa, G.; Ichim, M.; Drobota, M.; Sava, C.; Muresan, A. Polymers 2022, 14, 481. https://doi.org/10.3390/ polym14030481. WOS:000754591600001 Q1
51. Isothermal Drying Kinetic Study of Spent Coffee Grounds Using Thermogravimetric Analysis, Bejenari Victoria, Lisa Cătălin, Cernătescu Corina, Mămăligă Ioan, Lisa Gabriela, International Journal of Chemical Engineering Open Access Volume 2022. 2022 Article number 2312147. DOI 10.1155/2022/2312147, WOS:000829096900001 Q3
52. Physico-chemical characterization of the antioxidant mixture resveratrol-ferulic acid for applications in dermato-cosmetic products, Turcov Delia, Barna Simona, Profire Lenuța, Iacob Andreea Teodora, Lisă Gabriela, Puițel Adrian-Cătălin, Zbranca Anca, Șuteu Daniela, Farmacia Open AccessVolume 70, Issue 3, Pages 410 – 416, 2022, DOI 10.31925/farmacia.2022.3.5 WOS:000820244800005 Q4
53. Physicochemical characterization and energy recovery of spent coffee grounds, Bejenari V., Marcu A., Ipate A-M., Rusu D., Tudorachi N., Anghel I., Şofran I-E., Lisa G., Journal of Materials Research and Technology, 15, 2021, 4437-4451, WOS:000717684300001 Q1
54. Mesomorphic and Thermal Behavior of Symmetric Bent-Core Liquid Crystal Compounds Derived from Resorcinol and Isophthalic Acid. Ciobanu, C.I.; Berladean, I.; Epure, E.-L.; Simion, A.; Lisa, G.; Boussoualem, Y.; Carlescu, I. Crystals 2021, 11, 1215. https:// doi.org/10.3390/cryst11101215, WOS:000747165900001 Q2
55. Adsorption of Lanthanide(III) Cations on Cross-Linked Ionic Polymer, Composition and Thermal Analysis of the Formed Composites, Gutsanu V., Lisa G., Rusu D., Colloid Journal, 83(6), 2021, 688–697, 10.1134/S1061933X21060041, WOS:000754219700004, Q4
56. Nanocomposite Biopolymer Arboblend V2 Nature AgNPs, Mazurchevici, SN, Motas, JG, Diaconu, M, Lisa, G, Lohan, NM, Glod, M, Nedelcu, D., POLYMERS, 13(17), 2932, 2021 Q1
57. Study on highly thermostable low-k polymer films based on fluorene-containing polyetherimides, Olariu, MA, Hamciuc, C, Asandulesa, M, Hamciuc, E, Epure, EL, Tsakiris, V, Lisa, G, POLYMER ENGINEERING AND SCIENCE, DOI 10.1002/pen.25792 Q2
58. APPLICATION OF THERMAL ANALYSIS TO IMPROVE THE PREPARATION CONDITIONS OF ZEOLITIC MATERIALS FROM FLYING ASH, Buema, G, Lisa, G, Kotova, O, Ciobanu, G, Ivaniciuc, L, Favier, L, Harja, M, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL 20 (3)377-388, Q4
59. Assessing the Electrical Characteristics of p-n Heterojunction Prototype Diodes Realized with n-Type Polyimide Materials, Constantin, CP, Lisa, G, Damaceanu, MD, MACROMOLECULES, 54(2) 941-957, 2021 Q1
60. Tailoring poly(ether-imide) films features towards high performance flexible substrates Butnaru, I, Chiriac, AP, Asandulesa, M, Sava, I, Lisa, G , Damaceanu, MD, JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, 93, 436-447, 2021 Q1
61. Pyrolysis and combustion of polystyrene composites based on graphene oxide functionalized with 3-(methacryloyloxy)-propyltrimethoxysilane, Anghel, I , Lisa, G, Sofran, IE, Mitroi-Symeonidis, FC, Rusu, MM, Baia, M, Baia, L, Magyari, K, Danciu, V, Cotet, LC, Stroe, M, Baibarac, M, JOURNAL OF POLYMER ENGINEERING, 41, 7, 615-626, 2021 Q3
62. Characterization of β-cyclodextrin-diminazene Aceturate Complex Used to Treat Ichthyophthirius multifiliis Infection in Common Carp, LUPU A-C, CIOBOTARESCU S., LISA G., HURDUC N., MIRON L.D., EPURE E-L, Revista de Chimie, 71(3), 90-101,2020.

63. Tailoring thermal and flame retardant properties via synergistic effect in polyvinyl alcohol nanocomposites based on polyphosphonate and/or SiO2 nanoparticles, Hamciuc C., Vlad-Bubulac T., Serbezeanu D., Hamciuc E., Aflori M., Lisa G., Anghel I., Şofran I-E., Trofin A. Composites Part C: Open Access, 3, 100063, 2020.Q2
64. Poly (vinyl alcohol)-oligophosphonate eco-friendly composites with improved reaction-to-fire properties, Serbezeanu D, Vlad-Bubulac T., Hamciuc C., Hamciuc E., Grădinaru L. M., Lisa G., Anghel I Şofran I-E, Mocioi I-A, Enache A.A., Composites Communications, 22, 100505, 2020. Q1
65. Composites containing metal and thiosemicarbazone: Thermal, antimicrobial and antifungal properties, Gutsanu, V. ; Lisa, G, POLYHEDRON, 191, 114800, 2020 Q2
66. Interlayer dielectrics based on copolyimides containing non-coplanar alicyclic-units for multilevel high-speed electronics Barzic, A., I ; Hulubei, C. ; Asandulesa, M. ; Lisa, G. ; Popovici, D. ; Stoica, I ; Nicolescu, A. ; Albu, R. M., POLYMER TESTING, 90, 106704, 2020. Q1
67. Thermal behavior study and degradation mechanism by TG/MS/FTIR technique of some poly(aryl ether ether ketone)s Hamciuc, Corneliu ; Lisa, Gabriela; Hamciuc, Elena ; Epure, Elena-Luiza ; Tudorachi, Nita, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 150, 104877, 2020. Q1
68. The source of conductivity and proton dynamics study in TEMPO-oxidized cellulose doped with various heterocyclic molecules, Culica, Madalina Elena ; Avadanei, Mihaela ; Baron, Raluca Ioana ; Chibac-Scutaru, Andreea Laura; Asandulesa, Mihai; Biliuta, Gabriela ; Lisa, Gabriela ; Coseri, Sergiu, CELLULOSE, 27(15), 8585-8604, 2020. Q1
69. Self-assembled star-shaped liquid crystals based on 1,3,5-trihydroxybenzene with pendant alkyloxylated azobenzene arms, Carlescu, Irina ; Simion, Aurel ; Epure, Elena Luiza ; Lisa, Gabriela ; Scutaru, Dan, LIQUID CRYSTALS, 47(12), 1852-1862, 2020 Q2
70. New fire-resistant epoxy thermosets: nonisothermal kinetic study and flammability behavior, Hamciuc, Corneliu ; Vlad-Bubulac, Tachita; Serbezeanu, Diana; Carja, Ionela-Daniela; Hamciuc, Elena ; Anghel, Ion ; Enciu, Valentin; Sofran, Ioana-Emilia ; Lisa, Gabriela, JOURNAL OF POLYMER ENGINEERING, 40(1), 21-29, 2020 Q3
71. ADSORPTION OF CERTAIN TEXTILE DYES ONTO CHITOSAN. SPECTROSCOPIC AND THERMAL ANALYSIS, Dulman, Viorica ; Lisa, Gabriela; Bobu, Elena; Asandei, Doina, CELLULOSE CHEMISTRY AND TECHNOLOGY, 54, (1-2), 149-158, 2020 Q2
72. EVALUATION OF THE THERMAL BEHAVIOUR OF AGRICULTURAL WASTES FOR POSSIBLE USE IN THE BIOMASS PELLETS INDUSTRY Marcu, Alexandra ; Lisa, Gabriela ; Sofran, Ioana-Emilia ; Anghel, Ion) ; Serban, Manuel, CHEMISTRY JOURNAL OF MOLDOVA, 5 (1), 58-66, 2020, Q4
73. Determination of the effective diffusion coefficient during the drying of paint and varnish films applied on fir wood, Mihaila A., Lisa C., Ipate A-M., Zaltariov, M. F., Rusu D., Mamaliga I, Lisa, G., PROGRESS IN ORGANIC COATINGS, 137, 105344, 2019 Q1
74. Kinetics of drying of certain lacquers and paints in isothermal conditions using a thermogravimetric analyzer, Mihaila A., Lisa C., Mamaliga I, Lisa, G., JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 138(3), 2315-2322, 2019, Q2
75. CHARACTERIZATION OF COMPONENTS ISOLATED FROM ALGERIAN APRICOT SHELLS (PRUNUS ARMENIACA L.), Allouch, D., Popa M., Popa, V., Lisa G. Puitel A-C., Nasri H., CELLULOSE CHEMISTRY AND TECHNOLOGY, 53(9-10), 851-859, 2019 Q2
76. THERMAL BEHAVIOUR OF DIFFERENT TYPES OF COMMERCIAL COFFEE AND RESULTING COFFEE GROUNDS IN INERT ATMOSPHERE. THE INFLUENCE OF COMPOSITION (ARABICA AND ROBUSTA), Bejenari V., Lisa G, CELLULOSE CHEMISTRY AND TECHNOLOGY, 53(9-10), 861-868, 2019,Q2
77. Potential Use of Biochar from Various Waste Biomass as Biosorbent in Co(II) Removal Processes Lucaci AR., Bulgariu D., Ahmad I., Lisa G., Mocanu AM., Bulgariu L., , WATER, 11(8), 1565, 2019 Q2

78. New electromagnetic shielding materials based on viscose-carbon nanotubes composites, Culica ME, Biliuta G, Rotaru R, Lisa G, Baron RI., Coseri S., POLYMER ENGINEERING AND SCIENCE, 59(7), 1499-1506, 2019 Q2
79. Elucidating the thermal degradation of carbazole-containing platinum-polyyne polymers, Lisa G., Yoshitake Y., Michinobu T., JOURNAL OF APPLIED POLYMER SCIENCE, 136(24), 47639, 2019. Q2
80. Thermal degradation study of some poly(arylene ether nitrile)s by TG/MS/FTIR analysis, Lisa G., Hamciuc C., Hamciuc E., Tudorachi N., POLYMER TESTING, 75, 220-228, 2019, Q1
81. Antagonistic effects in structural design of sulfur-based polyimides as shielding layers for solar cells, Hulubei C., Albu RM., Lisa G., Nicolescu A., Hamciuc E., Hamciuc C., Barzic AI., SOLAR ENERGY MATERIALS AND SOLAR CELLS, 193, 219-230, 2019, Q1
82. New modified release tablets of bisoprolol fumarate for the treatment of hypertension: characterization and in vitro evaluation. Panainte AD, Gafitanu C., Stoleriu I., Tartau LM., Popescu MC., Lisa G., Popa EG., JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, 50, 402-409, 2019, Q1
83. Green route for the fabrication of self-healable hydrogels based on tricarboxy cellulose and poly(vinyl alcohol), Baron RI., Bercea M., Avadanei M., Lisa G., Biliuta G., Coseri S., INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 123, 744-751, 2019. Q1
84. Essential mint oil-based emulsions: preparation and characterization, Danila, A; Zaharia, C ; Suteu, D ; Muresan, EI ; Lisa, G ; Karavana, SY ; Toprak, A ; Popescu, A ; Chirila, L , INDUSTRIA TEXTILA, 70, 83-87, 2019 Q3
85. Preparation and characterization of chitosan-poly(vinyl alcohol)-neomycin sulfate films, Merlusca I. P., Matiut D. S. , Lisa G., Silion M., Gradinaru L. , Oprea S., Popa I.M., Polymer Bulletin, 75(9), 3971-3986, 2018, Q2
86. Thermal and optical behaviour of some aliphaticaromatic polyimide films, Journal of Optoelectronics and Advanced Materials, Sava I., Lisa G., 20, (7-8), 425 – 430, (2018) Q4
87. Metal content and crude polysaccharide characterization of selected mushrooms growing in Romania, Zavastin D. E., Biliută G., Dodi G., Macsim A-M., Lisa G., Gherman S. P., Breabăn I. G., Miron A., Coseri S., Journal of Food Composition and Analysis 67(4), 149-158, (2018) Q2
88. Multiple linear regression (MLR) models used to predict the thermal stability of some polyimides, Environmental Engineering and Management Journal, Lisa C., Hamciuc C., Hamciuc E., Lisa G.,17(4), 821-826, (2018) Q4
89. Studies on the nanocomposites based on carboxymethyl starch-g-lactic acid-co-glycolic acid copolymer and magnetite, Tudorachi N., Chiriac A. P., Nita L. E. , Mustata F., Diaconu A., Balan V., Rusu A., Lisa G., Journal of Thermal Analysis and Calorimetry, 131, (2), 1867-1880, (2018) Q2
90. New blue fluorescent and highly thermostable polyimide and poly(amide-imide)s containing triphenylamine units and (4-dimethylaminophenyl)-1,3,4-oxadiazole side groups Hamciuc C., Hamciuc E., Homocianu M., Nicolescu A., Lisa G., Dyes and Pigments, 148, 249-262, (2018), Q1
91. Thermal decomposition study of some polyimide-polydimethylsiloxane copolymers, Hamciuc C., Lisa G., Hamciuc E., Tudorachi N., Journal of Analytical and Applied Pyrolysis, 129, 204-214, (2018), Q1
92. Comparative analysis of thermal stability of building insulation materials Sprânceană A-C., Darie M., Ciauşu S., Tudorachi N., Lisă G., Environmental Engineering and Management Journal, 16 (12), 2831-2842., (2017) Q4
93. New folic acid-chitosan derivative based nanoparticles – potential applications in cancer therapy, Alupei L, Lisa G., Butnariu A., Desbrieres J., Cadinoiu A. N., Peptu C.A., Calin G., Popa M, Cellulose Chem. Technol., 51 (7-8), 631-648, (2017) Q2

94. Mesoporous aluminosilicate macrospheres obtained by spray gelling technique, Muresan, E.I., Lutic, D., Lisa, G., Pui, A., Journal of Sol-Gel Science and Technology, 81(3), 934–944, (2017). Q2
95. Synthesis and characterization of some azo-copolyimides, Revue Roumaine de Chimie Sava I., Lisa G, Sava E and Hurduc N, 61(4-5), 421-428, (2016), Q4
96. Insights into the physico-chemical behavior of CoCl2/polyimide hybrid materials, Sava I, Damaceanu M-D, Lisa G, Journal of Polymer Research, 23(7), article number 130, (2016), Q3
97. Unsymmetrical Bent-core Liquid Crystals Based on Resorcinol Core, Simion, A, Carlescu, I, Lisa, G, Scutaru, D, Revista de Chimie, 67(3), 446-450, (2016)
98. Thermal and thermo-oxidative stability and probable degradation mechanism of some polyetherimides, Lisa, G., Hamciuc, C., Hamciuc E., Tudorachi, N., Journal of Analytical and Applied Pyrolysis, 118 , 144-154, (2016) Q1
99. Thermal degradation of some ferrocene-containingpoly(aryleneethynylene)s Lisa G., Yoshitake Y., Michinobu T., Journal of Analytical and Applied Pyrolysis, 120, 399–408, (2016) Q1
100. Structure-property relationship of sodium deoxycholate based poly(ester ether)urethane ionomers for biomedical applications, Filip, D., Macocinschi, D, Vlad, S, Lisa, G, Cristea, M ., Zaltariov, MF, Journal of Applied Polymer Science, 133 (4), article number 42921, (2016) Q2
101. Thermal Behavior of Some Bent-Core Resorcinol Derivatives with Azo-Type Spacers and Variable Flexible Chain, Ciobanu, CI, Drochioiu G., Carlescu, I, Lisa, G, Antoci, V, Vasilache, V., Scutaru, D., Letters in Organic Chemistry, 13 (2), 156-161, (2016) Q4
102. Environmentally friendly fire-resistant epoxy resins based on a new oligophosphonate with high flame retardant efficiency Hamciuc, C, Vlad-Bubulac, T, Serbezeanu, D, Carja, ID, Hamciuc, E, Lisa, G, Perez, VF, RSC Advances, 6 (27), 22764-22776, (2016), Q2
103. Specific Characterization of a Multilayer Biomaterial Controlled Release of Tacrolimus, Radu, CD, Parteni, O, Sandu, IG , Lisa G., Munteanu, C., Lupu, VV., Revista de chimie, 67(1), 199-203, (2016)
104. Study of the Effects by Tinctorial Method Obtained at Polyethylene Terephtalate Functionalization with Alcohols, Popescu, V, Sandu, ICA , Popescu, G, Lisa, G, Popa, A, Revista de chimie, 66(10), 1607-1613, (2015)
105. Thermal and thermo-oxidative degradation of some heterocyclic aromatic polyethers containing phenylquinoxaline and/or 1,3,4-oxadiazole rings, Lisa G., Ipate A.-M., Hamciuc C., Tudorachi N., Journal of Analytical and Applied Pyrolysis, 112, 37-47, (2015) Q1
106. Thermal behavior of hydrophobically modified hydrogels using TGA/FTIR/MS analysis technique, Rusu, AG, Popa, MI, Lisa, G , Verestiuc, L ., Thermochimica Acta, 613, 28-40, (2015) Q2
107. Ni ferrite highly organized as humidity sensors, Dumitrescu, AM, Lisa, G, Iordan, AR, Tudorache, F, Petrila, I, Borhan, AI, Palamaru, MN, Mihailescu, C, Leontie, L, Munteanu, C ., Materials Chemistry and Physics, 156, 170-179, (2015) Q2
108. Unsymmetrical banana-shaped liquid crystalline compounds derived from 2,7-dihydroxynaphthalene, Simion, A , Huzum, CC, Carlescu, I, Lisa, G, Balan, M, Scutaru, D., Journal of the Serbian Chemical Society, 80, 5, 673-683, (2015) Q4
109. Sorption and Thermal Properties of Strongly Basic Cross-Linked Ionic Polymer Modified with Cr(III) Compounds, Gutsanu, V, Lisa, G, Vizir, C, Tudorachi, N, Journal of Applied Polymer Science, 132(3), Article Number: UNSP 41306, (2015) Q2
110. A straightforward, eco-friendly and cost-effective approach towards flame retardant epoxy resins Carja I.-D., Serbezeanu D., Vlad-Bubulac T., Hamciuc C., Coroaba A., Lisa G., Lopez C.G., Soriano M.F., Perez V.F., Romero Sanchez M.D, Journal of Materials Chemistry A, 2 (38), 16230-16241, (2014) Q1
111. New polyimide-based porous crosslinked beads by suspension polymerization: physical and chemical factors affecting their morphology Hulubei C., Vlad C.D., Stoica

I., Popovici D., Lisa G., Nica S.L., Barzic A.I., Journal of Polymer Research, 514, 21 (9), 1-16, (2014). Q3

112. Gamma irradiation of protein-based textiles for historical collections decontamination, Geba M., Lisa G., Ursescu C.M., Olaru A., Spiridon I., Leon A.L., Stanculescu I., Journal of Thermal Analysis and Calorimetry, 118 (2), 977–985, (2014) Q2
113. Fluorinated poly(1,3,4-oxadiazole-ether)s.Thermooxidative stability and kinetic studies, Ipate A.-M., Hamciuc C., Lisa G., Thermochimica Acta, 588, 59–67, (2014) Q2
114. Antibacterial quaternized gellan gum based particles for controlled release of ciprofloxacin with potential dermal applications, Novac O., Lisa G., Profire L., Tuchilus C., Popa M.I., Materials Science and Engineering C, 35 (1), 291–299, (2014) Q1
115. Study of the thermal decomposition of some azopolyimides, Burescu A.I., Sava I., Bruma M., Lisa G., High Performance Polymers, 26 (1), 81-88, (2014) Q3
116. Symmetric bent-core liquid crystals of some schiff bases containing azo linkage, Ciobanu C.I., Carlescu I., Lisa G., Scutaru D., Croatica Chemica Acta, 87 (1), 7–16, (2014) Q4
117. Study of thermal behavior of polyimides containing pendent-substituted azobenzene units, Sava I., Burescu A., Lisa G., Polymer Bulletin, 71 (6), 1359–1373, (2014) Q2
118. Effects of the pre-treatment with atmospheric-air plasma followed by conventional finishing Popescu V., Sandu I., Muresan E.I., Istrate B., Lisa G., Revista de Chimie, 65 (6), 676-683, (2014)
119. Study of thermal behaviour of some edible mushrooms,Tanase C., Odochian L., Balaes T., Lisa G., Gherca D., Pui A., Journal of Thermal Analysis and Calorimetry, 947-953, (1) 115, (2014) Q2
120. Evaluation of the thermal stability and set recovery of thermo-hydro-mechanically treated lime (Tilia cordata) wood Popescu M.-C., Lisa G., Froidevaux J., Navi P., Popescu C.-M., Wood Science and Technology, 48 (1), 85-97, (2014) Q1
121. Thermal and optical properties of polyimides containing azobenzene groups Burescu A., Sava I., Lisa G., Bruma M., Journal of Optoelectronics and Advanced Materials, 16 (11-12), 1456-1462, 2014. Q4
122. Thermal Degradation and Kinetic Studies of New Flame-Retardant Phosphorus-Containing Polymers with Liquid Crystalline Properties Carja I.-D., Serbezeanu D., Lisa G., Vlad-Bubulac T., Hamciuc C., International Journal of Polymer Analysis and Characterization, 19 (4), 372-382, (2014) Q3
123. Tinctorial Response of Recycled PET Fibers to Chemical Modifications during Saponification and Aminolysis Reactions, Popescu V, Muresan A, Constandache O, Lisa G., Emil Ioan Muresan, Corneliu Munteanu and Sandu I. Industrial & Engineering Chemistry Research, 53 (43), 16652−16663, (2014) Q1
124. Changes in cellulosic materials from heritage textiles during ageing treatments Olaru A; Leon, A L; Geba, M; Ursescu M. C., Lisa G., Ciovica S., European Journal of Science and Theology, 9 (6), 179-187, (2013)
125. New cholesteryl-containing bent core liquid crystals, Huzum C.-C., Carlescu, I., Lisa, G., Scutaru, D., Journal of the Serbian Chemical Society, 78 (5), 669-680, (2013) Q4
126. Synthesis and characterization of N-(2-aminoethyl)-2-acetamidyl gellan gum with potential biomedical applications Novac, O., Lisa G., Barbu, E., Alhaique, F., Popa, M.I., Carbohydrate Polymers, 98 (1), 174-177, (2013) Q1
127. The behavior of the AV-17(Cr) sorbent in various media Gutsanu V., Tudorachi N., Lisa G., Thermochimica Acta, 574, 109– 115, (2013) Q2
128. Preparation and Phase Behavior of Blends of Polysulfone-Based Polymers With Phosphorous-Containing Smectic-A Liquid Crystals, Vlad-Bubulac T., Serbezeanu D., Hamciuc C., Petreus O., Carja I-D., Lisa G, Polymer Engineering and Science, 53 (6), 1209–1216, (2013) Q2
129. Nonsymmetric liquid crystalline cholesteric dimers derived from resorcinol, Huzum, C.-C., Carlescu, I., Lisa, G, Scutaru, D., Revista de Chimie, 64 (1), 60-67, (2013)

130. Synthesis and mesomorphic properties of some bent-core schiff bases containing azo linkage Ciobanu, C., Carlescu, I., Lisa, G., Scutaru, D., Revista de Chimie, 64 (3), 249-253, (2013)
131. Preparation and characterization of niosomes containing metronidazole, Stan D, C., Tatarînga, G., Gafiţanu, C., Dragan, M., Braha, S., Popescu, M.C., Lisa, G, Farmacia, 61 (6), 1178-1185, (2013) Q4
132. Study of patina deposition on bronze artefacts exposed to environmental corrosion in open spaces, Sutiman, D; Rusu, I; Chelariu, R; Lisa G, Diaconescu V, Mareci D, European Journal of Science and Theology Volume: 8 (4): 215-223 , (2012)
133. Synthesis and Thermal Analysis of a Magnetic Composite by Thermogravimetry Coupled to Fourier Transform Infrared Spectroscopy and Mass Spectrometry, Tudorachi N, Chiriac A.P.,Neamtu I, Nistor M. T., Lisa G., Industrial & Engineering Chemistry Research, 51(1), 335-344, (2012) Q1
134. New hydrogels based on maleilated collagen with potential applications in tissue engineering Potorac, S; Popa, M; Maier, V, Lisa G, Verestiuc L, Materials Science & Engineering C-Materials for Biological Applications, 32(2), 236-243, (2012) Q1
135. The Seashell Wastes as Biosorbent for Reactive Dye Removal from Textile Effluents Suteu D, Bilba D, Aflori M, Doroftei F, Lisa G, Badeanu M. Malutan T., Clean-Soil Air Water, 40(2), 198-205, 2012. Q3
136. Synthesis and Liquid Crystalline Behavior of Some Monosubstituted Ferrocene Containing Schiff Bases, Onofrei (Aioanei) R M, Carlescu I, Lisa G, Silion M., Hurduc N., Scutaru D., Revista de Chimie, 63(2), 139-145, (2012)
137. Crosslinked polysulfone obtained by Wittig-Horner reaction in biphase system Popa A., Avram E., Lisa Gabriela, Visa(Pascariu) A, Iliescu S., Parvulescu, V., Ilia G, Polymer Engineering and Science, 52(2), 352-359, (2012) Q2
138. Synthesis and Characterization of Some Liquid Crystalline Compounds based on a 2,7-dihydroxynaphtalene Core Simion G., Carlescu I., Lisa G, Scutaru D, , Revista de Chimie, 63(4), 407-411, (2012)
139. Polyimides containing cycloaliphatic segments for low dielectric material Popovici D, Hulubei C, Cozan V., Lisa G, Bruma M., High Performance Polymers, 24(3), 194-199, (2012) Q3
140. Symmetric Bent-core Liquid Crystals Based on a 1,3-bis-(4 '-hydroxyphenylazo) Benzene Core, Iuganu D-F, Carlescu I, Lisa G., Scutaru D, Revista de Chimie, 63(5), 501-506, (2012)
141. Poly(ether imide)s containing cyano substituents and thin films made from them, Bacosca I, I Hamciuc È, Cristea M, Lisa G., Bruma M., Journal of Applied Polymer Science, 124(3), 1956-1966, (2012) Q2
142. Some metal compounds in the phase of crosslinked ionic polymeruprecursors for new sorbents and catalysts, Gutsanu V, Cojocaru L, Lisa G., Volodina F.G., Journal of Applied Polymer Science, 124(3), 2582-2593, (2012) Q2
143. Phosphorus-containing poly(ester imide) with pendant phthalonitrile groups, Carja I.-D., Hamciuc C., Hamciuc E., Vlad-Bubulac T., Serbezeanu, D., Lisa G, Revue Roumaine de Chimie, 57(6), 623-628, (2012) Q4
144. New hybrid materials based on layered double hydroxides and antioxidant compounds, Silion M.; Hritcu D., Lisa G. Popa I M, Journal of Porous Materials 19(3), 267-276, (2012) Q2
145. Spectroscopic, thermal and antimicrobial properties of the copper(II) complex of Schiff base derived from 2-(salicylidene) aminopyridine, Tantaru G, Popescu M-C, Bild V., Poiata A, Lisa Gabriela, Vasile C, Applied Organometallic Chemistry. 27(6), 356-361, (2012) Q2
146. New iron-cobalt clusters with silicon-containing dicarboxylic acids Cazacu M; Vlad A; Turta C; Lisa G, Central European Journal of Chemistry, 10(4), 1079-1086, (2012) Q3
147. Core-shell magnetic chitosan particles functionalized by grafting: Synthesis and characterization Dodi G, Hritcu D, Lisa G., Popa I M, Chemical Engineering Journal, 203,130-141, (2012) Q1

148. Azo-polysiloxanes thermal stability study: Thermal stability of azo-polysiloxanes with biological applications Lisa G; Paius C, Raicu-Luca, A, Hurduc N, High Performance Polymers, 530-537, 24(6), (2012) Q3
149. New highly thermostable aromatic polyamides with pendant phthalonitrile group, Carja, I-D; Hamciuc C, Hamciuc E, Vlad- Bubulac T, Lisa G., Macromolecular Research, 20(10), 1011-1020, (2012) Q2
150. Gelatin-hydroxyethyl cellulose magnetic microparticles as drug carriers: preparation and characterization, L Balaita, C A Peptu, P Postolache, Lisa G, M Popa, Journal of Optoelectronics and Advanced Materials, 14(11-12)1023 – 1033, (2012) Q4
151. Kinetics of thermal degradation of some ferrocene derivatives, Lisa G, Wilson D A, Hurduc N, Tudorache N, Scutaru D., Environmental Engineering and Management Journal, 1945-1952, 11(11), 2012 .Q4
152. Polyelectrolyte complexes of chitosan with dextran sulphate. Synthesis and characterization Rosca, C., Novac, O., Lisa G, Popa, M.I., Cellulose Chemistry and Technology, 45 (3-4), 185-189, (2011) Q2
153. Evaluation of morphological and chemical aspects of different wood species by spectroscopy and thermal methods, Popescu M.-C., Popescu C-M., Lisa Gabriela, Sakata Y., Journal of Molecular Structure, 988 (1-3), 65-72, (2011) Q2
154. On the correlation between thermal analysis results and corrosion behaviour of some metallic religious artifacts, Rusu I., Sutiman, D., Lisa G, Mareci D., Puica N.M., Journal of Thermal Analysis and Calorimetry, 104(2), 423-430, (2011) Q2
155. Hockey stick liquid crystals based on a 2,5-asymmetric disubstituted [1,3,4]oxadiazole core Cioanca E.-R., Elena Luiza Epure, Carlescu I., Gabriela Lisa, Wilson D., Hurduc N., Scutaru D., Molecular Crystals and Liquid Crystals, 537,51-63, (2011) Q3
156. Effect of thermal curing on the properties of thin films based on benzophenonetetracarboxylic dianhydride and 4,4′-diamino-3,3′-dimethyldiphenylmethane, Sava I., Chişcă Ş., Brumă M., Lisa G, Journal of Thermal Analysis and Calorimetry, 104(3),1135-1143, (2011) Q2
157. Thermal degradation and pyrolysis study of phosphorus-containing polysulfones Petreus O., Lisa G, Avram E., Rosu D., Journal of Applied Polymer Science, 120 (6) 3233-3241, (2011) Q2
158. Excess molar volumes of binary mixtures (acetic acid + water, benzene, n-hexane and n-heptane) at several temperatures, Bolat G., Sutiman D., Lisa G., Revue Roumaine de Chimie, 56(7), 743-749, (2011) Q4
159. Ferrocene derivatives thermostability prediction using neural networks and genetic algorithms Lisa G, Wilson, D.A., Curteanu, S., Lisa, C., Piuleac, C.-G., Bulacovschi, V, Thermochimica Acta, 521 (1-2) 26-36, (2011) Q2
160. Synthesis and thermal analysis of some ferrocene derivatives, Wilson D.A, Lisa G., Scutaru D., Hurduc, N., Journal of the Iranian Chemical Society, 8(3), 782-793, (2011) Q3
161. Thermal degradation of some [1,3,4]oxadiazole derivatives with liquid crystalline properties Lisa G, Cioanca E.-R., Tudorachi, N., Cârlescu, I., Scutaru, D., Thermochimica Acta, 524 (1-2), 179-185, (2011) Q2
162. Ultra dispersed particles of Fe(III) compounds in the strongly basic crosslinked ionic polymer-precursors for new sorbents and catalysts, Gutsanu V, Schitco C., Lisa G, Turta C., Materials Chemistry and Physics, 130 (3), 853-861, (2011) Q2
163. Asymmetric bent-core liquid crystals based on 1,3-bis-(4'-hydroxyphenylazo)benzene central core Iuganu, D., Cârlescu I., Lisa G, Scutaru, D., Studia Universitatis Babes-Bolyai Chemia, 4, 63-74, (2011) Q4
164. Thermal and chemical stability of Romanian bentonite Ursu A. V., Jinescu G., Gros F., Nistor I. D., Miron N. D., Lisa G., Silion M., Djelveh G., Azzouz A., Journal of Thermal Analysis and Calorimetry, 106 (3), 965-971, (2011) Q2
165. Synthesis and Thermal Behaviour of Polyimides Containing Pendent Substituted Azobenzene Units Sava I, Burescu A., Bruma M., Lisa G., Materiale plastice, 48(4), 303-307, (2011) Q4

166. Asymmetric bent-core liquid crystals based on a 2,7-dihydroxynaphtalene core with azo and esteric connecting groups Simion, G., Carlescu I., Lisa G, Scutaru, D., Studia Universitatis Babes-Bolyai Chemia, 4,75-88, (2011) Q4
167. Experimental densities of binary mixtures: Acetic acid with benzene at several temperatures, Non-Equilibrium Statistical Physics Today Bolat, G.; Sutiman, D.; Lisa, G., 1332, 270, (2011)
168. .N-methylimidazolium functionalized strongly basic anion exchanger: Synthesis, chemical and thermal stability Neagu V., Avram E., Lisa G, Reactive and Functional Polymers, 70, 88-97, (2010) Q1
169. On the lifetime prediction of old documents, Melniciuc N., Lisa G, Rusu I., Journal of Thermal Analysis and Calorimetry, 99(3), 835-842, (2010) Q2
170. Synthesis and characterization of phosphorus-containing polystyrene, Petreus O., Avram E., Lisa G, Serbezeanu D., Journal of Applied Polymer Science, 15(4), 2084–20921, 2010. Q2
171. Thermogravimetric analysis of fungus-degraded lime wood, Popescu C-M, Lisa G, Manoliu A., Gradinariu P., Vasile C., Carbohydrate Polymers, 80(1), 78–83, (2010) Q1
172. Artificial neural network for prediction of excess refractive indices of some binary mixtures Lisa G, Curteanu S., Lisa C., Environmental Engineering and Management Journal, 9(4), 483-487, (2010) Q4
173. Thermal behavior of biodegraded lime wood, Popescu C-M, Manoliu A., Lisa G, Gradinariu P., Vasile C. Carbohydrate Research, 345 (9), 1149–1155, (2010) Q2
174. Comparative study of aromatic polyimides containing methylene units, Sava I., Chisca S., Bruma M., Lisa G., Polymer Bulletin, 65, (4), 363–375, (2010) Q2
175. Modeling the thermal stability of the polydimethylsiloxanes/silica green composites using neural networks Nistor A., Curteanu S., Lisa G., Cazacu M., Environmental Engineering and Management Journal, 9(8), 1053-1061, (2010) Q4
176. Investigation of thermal degradation of some ferrocene liquid crystals, Lisa G, Wilson Apreutesei D., Scutaru D., Tudorachi N., Hurduc N., Thermochimica Acta, 507–508, 49–59, (2010) Q2
177. Neural networks used for modeling the thermal stability of polydimethylsiloxane/silica composites containing complexed lanthanum Nistor A., Lisa Gabriela, Curteanu S., Vlad A., Cazacu M., Revue Roumaine de Chimie, 55(9), 525-536, (2010) Q4
178. Aromatic polyimides containing methylene units. Thermal behaviour, Sava I., Chişcă Ş., Brumă M, Lisa G., , Revue Roumaine de Chmie, 55(10), 633-638, (2010) Q4
179. Preparation, characterization and applicability of cellulose acetate–polyurethane blend membrane in separation techniques Zavastin D., Cretescu I., Bezdadea M., Bourceanu M., Dragan M., Lisa G, Mangalagiu I., Vasic V., Savic J., Colloids and Surfaces A: Physicochemical and Engineering Aspects, 370 (1-3), 120-128, (2010) Q2
180. Study of some aromatic polyimides containing methylene units Sava I, Chisca S, Bruma M, Lisa G., Materiale Plastice 47(4), 481-485, (2010) Q4
181. Ultrafine particles of bismuth(III) compounds in the phase of crosslinked polymers: Precursors for new sorbents and catalysts, Gutsanu V., Cojocaru L., Lisa G, Volodina G. F., Journal of Applied Polymer Science, 118(5), 2674–2681, (2010) Q2
182. Tannic acid incorporation in chitosan-based microparticles and in vitro controlled release, Aelenei N., Popa M.I., Novac O., Lisa G, Bălăiţă L., Journal of Materials Science: Materials in Medicine 20(5),1095-1102, (2009) Q2
183. Neural networks used for the prediction of the structure-thermal stability relation Lisa C, Lisa G and Curteanu S, Revue Roumaine de Chimie, 54(11-12), 1133-1142, (2009) Q4
184. On the thermal stability of flax fabrics grafted with monochlorotriazinyl-β-cyclodextrin and treated with cinnamic derivatives, Grigoriu A-M, Luca C, Lisa G and Grigoriu A, Cellulose Chemistry and Technology, 153-161, 43 (4-6), (2009) Q2
185. Chitosan and collagen composite films: chitosan molecular weight influence upon the biopolymer compatibility, Nastasescu O S, Popa M I, Lisa G et Verestiuc L, Revue Roumaine de Chimie, 54(7), 549–555, (2009) Q4

186. Study on metal complexes of chelating resins bearning iminodiacetate groups, Dragan E. S., Dinu M. V., Lisa G, Trochimczuk A.W., European Polymer Journal, 45(7), 2119-2130, (2009) Q1
187. Solid state proprieties of polycation/azo dye complexes based on quaternized poly(dimethylaminoethyl metacrilate) as a function of dye structure, Dragan E. S., Dinu I. A., Lisa G, Journal of Optoelectronics and Advanced Materials 11(4), 495-501, (2009) Q4
188. Azopolysiloxanes modified with nucleobases: 1. Thermal Characterization of some nanostructurable Materials with potential application in biology, Lisa G, Enea R., Hurduc N., Hurduc N, High Performance Polymers, 340–352, 21(2), 2009. Q3
189. Contribution to the modification and characterization of different types of lignin, Căpraru A-M, Popa V, Măluţan T and Lisă G., Cellulose Chemistry and Technology, 43(9-10), 409-418, (2009) Q2
190. Pollution impact on the lifetime of old documents, Rusu, I; MeIniciuc-Puica, N; Lisa, G, European Journal of Science and Theology, 5 (3), 85-91, (2009)
191. Influence of gall ink composition on thermal stability of paper, Ursescu M, Lisă G., Măluţan C. and Ciovică S., Cellulose Chemistry and Technology, 43(9-10), 427-434, (2009) Q2
192. Synthesis and photochromic behavior of new polyimides containing azobenzene, Sava I, Resmerita AM., Lisa G, Damian V., Hurduc N., Polymer, 49, 1475-1482, (2008) Q1
193. Synthesis and characterization of new aromatic polyesters and poly(ester-imide)s containing phosphorous cyclic bulky groups, Hamciuc C., Vlad-Bubulac T., Petreus O., Lisa G, Polymer Bulletin, 60, 657–664, (2008) Q2
194. Characterization by Dynamic Thermal Methods of Some Bis-Azopolyethers with Flexible Spacer, Lisa G. Hurduc N., Alazaroaie S., Hurduc N., Polymer Bulletin, 61,759–769, (2008) Q2
195. Thermogravimetric characterization of chitosan/alginate microparticles loaded with different drugs ,Popa M. I., Lisa G, Aelenei N., Polymer Bulletin, 61, 481–490, (2008) Q2
196. Refractive indices of binary systems iso-propanol – water and iso-propanol – toluene, Lisa G, Huhurez C., Matran R-M., Lisa C., Environmental Engineering and Management Journal, 7(3), 309-312, (2008) Q4
197. Thermogravimetric analysis of layered double hydroxides with chloramphenicol and salicylate in the interlayer space Frunză M., Lisa G, Popa M.I., Miron N.D., Nistor D.I., , Journal of Thermal Analysis and Calorimetry, 93(2), 373-379, (2008) Q2
198. Intercalarea ketoprofenului în Mg-Al hidrotalciţi. Sinteză şi caracterizare, Frunză M., Lisa G, Zonda R., Popa I.M., Revista de Chimie, 59(4) 409-412, 2008
199. Obţinerea şi caracterizarea de noi materiale hibride de tip hidroxi dubli lamelari intercalaţi cu 4,6-dinitro-o-crezol, Frunză M., Lisa G., Popa I.M., Revista de Chimie, 59(2), 165-172, 2008
200. Prediction of excess thermodynamic properties from experimental refractive index of binary mixtures 2. Artificial neural network modeling, Lisa G, Curteanu S, Lisa C, Revue Roumaine de Chimie, 53 (9), 859-867, (2008) Q4
201. New hybrid compounds containing intercalated ciprofloxacin into layered double hydroxides: synthesis and characterization, Popa M.I., Silion M., Lisa G, Hritcu D., Revue Roumaine de Chimie, 53(9), 827–831, (2008) Q4
202. Thermal degradation behaviour and kinetic analysis of polystyrene with pendent viologen groups, Avram E., Lisa G., Revue Roumaine de Chimie, 53(9),759-768, (2008)
203. Thermal degradation kinetics of some aromatic poly(1,3,4-oxadiazole), Hamciuc C., Ipate A.M., Hamciuc E., Lisa G., High Performance Polymers, 20, 296-310, (2008) Q3
204. Thermal stability of some ferrocene containing Schiff bases, Carlescu I., Lisa G., Scutaru D., Journal of Thermal Analysis and Calorimetry, 91(2), 535-540, (2008) Q2

205. Thermal stability of sodium alendronate in a mixture with cross-linked acrylic acid polimers and chitosan, Ochiuz L., Lisa G., Dragos C., Avadanei M., Gafiteanu E., Materiale Plastice, 45(1), 372-376, (2008) Q4
206. Thermal stability of some phosphorus-containing polyesters and polyesterimide, Vlad-Bubulac T., Hamciuc C., Petreus O., Lisa G. Materiale plastice, 44(4), 284-288, (2007) Q4
207. Layered double hydroxides as potential solid for obtaining more environmentallyfriendly pesticides, Frunză M., Popa M. I., Lisa G., Environmental Engineering and Management Journal, 6(4), 319-324, (2007) Q4
208. Influenta gruparilor azo asupra comportarii termice a unor copolieteri cu diferiti spatiatori, Lisa G., Hurduc N., Damian C., Hurduc N, Creanga A., Materiale Plastice, 44(3), 189-194, (2007) Q4
209. Prediction of excess thermodynamic properties from experimental refractive index of binary mixtures 1. Water - propionic acid mixtures at 290.15, 300.15, and 310.15K, Lisa G., Lisa C., Revue Roumaine de Chemie, 52 (7), 647-653, (2007) Q4
210. Kinetics of thermal degradation in non-isothermal condition of some phosphorus-containing polyesters and polyesterimides, Hamciuc C., Vlad-Bubulac T., Petreus O., Lisa G. European Polymer Journal, 43, 980-988, (2007) Q1
211. Polyimide-polydimethylsiloxane copolymers. Evaluation of the thermal and electrical property, Hamciuc E., Hamciuc C., Cazacu M., Lisa G., Okrasa L. Journal of Macromolecular Science, Part. A, Pure and Applied Chemistry, 44, 1069-1078, (2007) Q3
212. The non-isothermal degradation process of some aromatic azo-polymers, Hurduc N., Damian C., Lisa G., Toader V., Hurduc N., High Performance Polymers, 19, 477-496, (2007) Q3
213. Thermal behavior of some cholesteric esters, Apreutesei D., Lisa G., Hurduc N., Scutaru D., Journal of Thermal Analysis and Calorimetry, 83(2), 335-340, (2006) Q2
214. Investigations on thermal stability of some ferrocene liquid crystals bearing azo, ferrocenyl and cholesteryl units, Apreutesei D., Lisa G., Scutaru D., Hurduc N., Journal of Optoelectronics and Advanced Materials, 8 (2), 738-741, (2006) Q4
215. Thermal behavior of aromatic polysulfones with pendant viologen groups, Avram E., Lisa G., Hurduc N., High Performance Polymers, 18 (4), p. 479-493, 2006. Q3
216. Synthesis and characterization of certain mixed compounds of Cr(III), Fe(III) and Zr(IV) ions with urea and organic ligands, Foca N., Lisa G. Revue Roumaine de Chimie, 51(9), 877-886, (2006) Q4
217. Comportarea termica a unor polistireni cu grupe viologen in catena laterala Avram E., Lisa G., Hurduc N., Materiale Plastice, 43 (2), 95-99, (2006) Q4
218. Interaction of chitosan with natural or syntetic anionic polyelectrolytes. 1. The chitosan-carboxymethylcellulose complex Rosca C., Popa I.M., Lisa G., Charlotte Chitanu G., Carbohydrate Polymers, 62, 35-41, (2005) Q1
219. The thermal behavior in non-isothermal conditions of some aromatic copolyethers with a tetramethylenic spacer,Damian, C; Hurduc, N; Lisa, G; S. Alazaroaie, Hurduc N., Materiale Plastice, 42 (4), 302-306, (2005) Q4
220. Thermotropic properties of ferrocene derivatives bearing cholesteryl unit. Structure-properties correlations, Apreutesei D., Lisa G., Akutsu H., Hurduc N., Nakatsuji S., Scutaru D., Applied Organometallic Chemistry, 19(9), 1022-1037, (2005) Q2
221. Experimental densities and dynamic viscosities of binary mixtures 2. Acetic acid – toluene mixtures at 296.15, 302.15, 308.15, 314.15 and 319.15 K, Lisa G., Bolat G., Popa I.M., Revue Roumaine de Chimie, 50 (7-8), 699-704, (2005) Q4
222. Synthesis and thermal characterization of some of Cr(III), Fe(III) and Zr(IV) compounds with substituted o-hydroxy benzophenone, Foca N., Lisa G., Rusu I., Journal of Thermal Analysis and Calorimetry, 78(1), 239-249, (2004) Q2
223. Physical-chemical characterization of some derivatives from 4,4¢bypiridil, Irimia M., Lisa G., Danac R., Aelenei N., Druta I, Croatica Chemica Acta, 77 (4), 587-591, 2004. Q4

224. Physico - Chemical Properties of Chitosan Films, Balau L., Lisa G., Popa M.I., Tura V., Melnig V., Central European Journal of Chemistry, 2, (4), 638-647, (2004) Q3
225. Synthesis and un-isotherm kinetic study of some ferrocene acids Apreutesei D., Lisa G., Hurduc N., Scutaru D., , Central European Journal of Chemistry, 2, (4), 553-562, (2004) Q3
226. Experimental densities and dynamic viscosities of binary mixtures 1. Iso-propanol – toluene mixtures at 292.15, 299.15, 305.15, 311.15 and 317.15 K, Lisa G., Lisa C., Apreutesei D., Barabulică I., Gâlea D. Revue Roumaine de Chimie, 49 (11), 911-915, (2004) Q4
227. Determinarea proprietatilor intrinseci ale curgerii viscoase pentru solutia apa-izopropanol, Irimia M., Apreutesei D., Ionescu Gh., Scutaru A.M., Lisa G., Revista de Chimie, 55(1), 14-22, (2004)
228. Proprietatile termodinamice de curgere viscoasa pentru sistemul acid propionic – toluen, Lisa G. Revista de Chimie, 55(2), 121-125, (2004)
229. Thermal behavior of polystyrene, polysulfone and their substituted derivates,Lisa G., Avram E., Paduraru G., Irimia M., Hurduc N., Aelenei N., Polymer Degradation and Stability, 82(1), 73-79, (2003) Q1
230. Mass transfer resistance in liquid-liquid extraction with individual phase mixing, Lisa Apreotesei G., Tudose R. Z., Kadi H., Chemical Engineering and Procesing, 42(11), 909-916, (2003) Q2
231. Extrapolarea relaţiilor de dependenţă capacitate calorică-temperatură la substanţe dintr-o serie omoloagă Lisa G., Curteanu S., Aelenei N., Revista de Chimie, 54(1), 79 - 82, (2003)
232. Coeficienti individuali de transfer de masa in sisteme eterogene lichid-lichid, Lisa Apreotesei G., Tudose R. Z. Revista de Chimie, 54(4), p. 348-351, (2003)
233. Unele aspecte privind prezentarea şi utilizarea ecuaţiilor de dependenţă a capacităţii calorice de temperatură, Curteanu S., Lisa G., Aelenei N., Popa A.M., Revista de Chimie, 53, 6, 415 – 424, (2002)
234. Studies on liquid-liquid extraction. Influence of the partition coefficient on mass transfer intensity,Lisa Apreotesei G., Radu Z. Tudose Revue Roumaine de Chimie, 47 (3-4), p. 67-72, (2002) Q4
235. Mass transfer coefficients in liquid-liquid extraction, Chemical Engineering and Procesing,Tudose R Z., Lisa Apreotesei G., 40(5), 477-485, (2001) Q2
236. Mass transfer in liquid-liquid extraction, Tudose Radu Z., Lisa Apreotesei G., Revue Roumaine de Chimie, 45(7-8), 617-623, (2000)Q4

- Articole publicate în volume indexate ISI Proceedings

1. Effect of Pyrolysis Temperature on Characteristics of Biochars Derived from Marine Algae Biomass (Ulva Lactuca), Ciobanu, AA; Ilau, A; Lisa, G; Bulgariu, L, ADVANCES IN DIGITAL HEALTH AND MEDICAL BIOENGINEERING, VOL 3, EHB-2023, 2024, Volume111, Page225-233, DOI10.1007/978-3-031-62523-7_25, IFMBE Proceedings, Indexed 2025-03-26.
2. STUDY OF THE USAGE OF SOAPNUT SOLUTIONS FOR OLD PAPER CLEANING, Elena, A; Nicoleta, MP; Gabriela, L; Iulian, R, ESRARC 2018: 10TH EUROPEAN SYMPOSIUM ON RELIGIOUS ART, RESTORATION & CONSERVATION Page82-84, Kermes Books, Indexed 2018-08-20
3. CHARACTERIZATION OF THE EFFECTIVENESS OF CONSOLIDATION OPERATION APPLIED ON OLD HANDMADE PAPERS, Nicoleta, MP; Gabriela, L; Elena, A; Iulian, R, 9TH EUROPEAN SYMPOSIUM ON RELIGIOUS ART, RESTORATION & CONSERVATION (ESRARC 2017) Page101-104, Kermes Books, Indexed 2017-09-20.
4. KINETIC ANALYSIS OF THERMAL DEGRADATION OF SOME OLD PAPER CONSOLIDATED WITH CELLULOSE ETHERS, Dan, SG ; Gabriela, L; Teodor, NM; Niculina, DE; Elena, A, 9TH EUROPEAN SYMPOSIUM ON RELIGIOUS ART,

RESTORATION & CONSERVATION (ESRARC 2017), Page130-133, Kermes Books, Indexed 2017-09-20.

5. CONSIDERATIONS ABOUT OLD PAPER CONSOLIDATION WITH CELLULOSE ETHERS, Elena, A; Gabriela, L; Iulian, R, Nicoleta, MP, ESRARC 2016: 8TH EUROPEAN SYMPOSIUM ON RELIGIOUS ART, RESTORATION & CONSERVATION, Page55-57, Indexed 2017-01-11.
6. Experimental densities of binary mixtures: Acetic acid with benzene at several temperatures, Bolat, G; Sutiman, D; Lisa, G, NON-EQUILIBRIUM STATISTICAL PHYSICS TODAY Volume1332, Page 270-270, DOI10.1063/1.3569531, AIP Conference Proceedings, Indexed 2011-05-20.
7. THIN FILMS BASED ON BENZOPHENONTETRACARBOXYLIC DIANHYDRIDE AND 4,4′-DIAMINO-3,3′-DIMETHYLDIPHENYLMETHANE, Sava, I; Chisca, S; Bruma, M; Lisa, G; Buiculescu, C, 2010 INTERNATIONAL SEMICONDUCTOR CONFERENCE (CAS), VOLS 1 AND 2, Page 305-308, International Semiconductor Conference, Indexed 2010-01-01.
8. COMPARED PROPERTIES OF AZOPOLYIMIDES, Sava, I; Burescu, A; Bruma, M; Resmerita, AM; Lisa, G; Hurduc, N, CAS: 2009 INTERNATIONAL SEMICONDUCTOR CONFERENCE, VOLS 1 AND 2, PROCEEDINGS, Page359-+, Indexed 2009-01-01.

- Articole indexate în baze de date internaţionale

1. Cleminte C-I, Lisa G, Application of Thermogravimetric Analysis in the Investigation of the Sublimation Process, 2025, 71(75), 9-17, 10.5281/zenodo.15617712.
2. Postolache L-V, Soreanu G, Cretescu I, Lisa G, Modeling and Optimization of Thermal Stability and Heat Release Capacity of Waste Mixtures with Biomass Residues (Chlorella vulgaris), 2025, 1(1), 6, 10.53941/acpa.2025.100006.

I. Bîrgăuanu, C. Lisa, A. Bargan, S. Curteanu, G. Lisa, Experimental Studies of Surface Tensions for Binary and Ternary Systems of Benzyl Alcohol, N-Hexanol and Water. Modeling with Neural Networks, Iranian Journal of Chemical Engineering, 2024, 21(1), 42430, 10.22034/ijche.2024.446235.1524

3. POSTOLACHE L-V, PALARII A, NICUȚĂ A-M, SĂVUC G-C, SMOC L-G and LISA G, STUDIES ON ENERGY RECOVERY OF TEXTILE WASTE, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, CHIMIE şi INGINERIE CHIMICA, 2, 70(74), 2024, 8-18, 10.5281/zenodo.13307797.
4. Lazar L, Lisa G, Soreanu G, Harja M, Conversion of plaster molds wastes into the new inorganic products by thermal dehydration, Ecology & Safety, 17, 2023, 24-34, ISSN 1314-7234, ECOLEX, Semantic Scholar
5. V. Gutsanu. G. Lisa, M. Botnaru, Vitamin C interaction with activated carbons: isotherms, thermodynamics, thermal investigation, , In: Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Science. 2022, no. 8(4), pp. 32-52. 10.26479/2022.0804.04
6. Serbezeanu D., Vlad-Bubulac T., Hamciuc E., Hamciuc C., Lisa G, Anghel I., Sofran I-E., Preda D-M Study on Thermal and Flame Retardant Properties of Phosphorus-containing Polyimides, , Revista de Chimie, 72(4), 2021, 13-21, 10.37358/Rev.Chim.1949
7. Paula Simionescu, Anamaria Porohniuc, Anişoara Aionesei, Valentin Panait and Gabriela Lisa, Evaluation of the fat content of spreadable foods, Buletinul Institutului Politehnic din Iaşi, Secţia Chimie şi Inginerie Chimică, Chemistry and Chemical Engineering Section,2, 68(72), 9-16,2022
8. Andreea Mihăilă, Cătălin Lisa, Ioan Mămăligă and Gabriela lisa, Evaluation of the Drying Process of Some Varnishes and Paints Applied on Fir Wood, Buletinul Institutului Politehnic din Iaşi, Secţia Chimie şi Inginerie Chimică, Chemistry and Chemical Engineering Section,3, 67(71), 63-72, 2021
9. Mihaela I., Maricel D., Lisa G., Mocanu A. M., Obtaining, rheological characterization and thermal degradation of some new medicinal creams, Buletinul Institutului Politehnic din Iaşi, 66(70) nr. 1, 51-61, 2020.

10. Lupu A-C, Ciobotarescu S., Lisa G., Hurduc N., Miron L.D., Epure E-L,Characterization of β-cyclodextrin-diminazene Aceturate Complex Used to Treat Ichthyophthirius multifiliis Infection in Common Carp, Revista de Chimie, 71(3), 90-101,2020.
11. Iuliana Bîrgăuanu, Cătălin Lisa, Silvia Curteanu and Gabriela Lisa, Multiple linear regression (MLR) models used for the prediction of excess thermodynamic properties based on experimental determination of refractive index, Buletinul Institutului Politehnic din Iaşi, 66(70) nr. 4, 9-21, 2020.
12. Victoria Bejenari, Mirela-Anastasia Morarașş, Maricel Danu, Constanţa Ibănescu and Gabriela Lisa, physico-chemical characterization of arabica and robusta spent coffee blends, Buletinul Institutului Politehnic din Iaşi, 66(70) nr. 3, 49-57, 2020.
13. CĂTĂLINA ROȘCA, VALERIU ȘUNEL, MIHAELA CREȚU, MARIANA DIACONU, BOGDAN ISTRATE, GABRIELA LISĂ, MIHAI IMBRIȘCĂ, CORNELIU STAN, GABRIELA ANTOANETA APOSTOLESCU and DANIEL SUTIMAN, SYNTHESIS, CHARACTERIZATION AND TOXICITY ANALYSIS OF SOME DIVALENT TRAZITIONAL METALS COMPLEXES WITH N-(p-NITROBENZOYL)-L-GLYCINE, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, 65(69) nr.1, 17-33, 2019
14. VICTORIA BEJENARI, LAURA MIHĂILĂ, ANDREEA-IOANA PRISACARIU, GEORGIANA TĂRĂBOANŢĂ, GABRIELA LISA, THERMAL CHARACTERIZATION OF CHOCOLATE. THE POLYMORPHISM OF COCOA BUTTER, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞi 64(68), nr. 4, 2018
15. ANDREEA MIHĂILĂ, MĂDĂLINA MACOVEI, LĂCRĂMIOARA MAIECZKI, MARINA VODUŢ, NIŢĂ TUDORACHI and GABRIELA LISĂ, TG/MS/FTIR STUDY OF THERMAL DECOMPOSITIONS OF SOME BABY TEATS, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Secţia CHIMIE şi INGINERIE CHIMICĂ, 64(68), nr.1, 9-18, 2018
16. MIHĂILĂ A., GHERGHEL A., PĂTRĂUŢANU O. A., AMARIEI M., LISA G., THERMAL ANALYSIS OF HUMAN HAIR IN NONISOTHERMAL AND ISOTHERMAL CONDITIONS, Annals of the Academy of Romanian Scientists Online Series on Physics and Chemistry Sciences, vol.2, 33-42, 2017.
17. Andreea MIHAILĂ, Ana-Maria ALISTAR, Roxana FLOREA, Gabriela LISA, ANALYSIS OF THE THERMAL BEHAVIOR OF CERTAIN BABY TEATS, Bulletin of Romanian Chemical Engineering Society, vol. 4.nr.2, 2017.
18. Gabriela Lisa, HABILITATION THESIS SUMMARY, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Secţia CHIMIE şi INGINERIE CHIMICĂ, vol.63, 61-64, 2017
19. Hurduc, N., Lisa, G. , Toader, V, Influence of the size of methylene spacers on the thermal behavior of several aliphatic-aromatic polyesters, Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry (4) 14, 2013, 197-205.
    Asandei Doina, Moise Anca, Lisa Gabriela, Bobu Elena, Characterisation of chitosan modified by carboxymethilation, Buletinul Institutului Politehnic din Iasi, Buletinul Institutului Politehnic din Iasi, Tomul LIX (LXIII), Fasc. 2, 61-69, 2013.
20. Lisa G., Hurduc N, Alăzăroaie S, Hurduc N, Characterization of Several Aromatic Copolyethers with Flexible Methylene Spacer Using Thermal Methods, Buletinul Institutului Politehnic din Iaşi, Fasc. 1, LVIII (LXII), 217-227, 2012.
21. Lisa G, Hurduc N., Alazaroaie S and Hurduc N, Characterization by dynamic thermal methods of some bis-azopolyethers with an octamethylene spacer, Analele Universităţii Bucureşti – Chimie (serie nouă), 1220-871X, 20 (1), 31-39, 2011.
22. Raicu Luca A, LISĂ G, HURDUC N, Synthesis and Association Capacity Evaluation of Some New Donor/Acceptor Azo-Polymers, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Tomul LVII (LXI), fasc 3, 197 - 203, 2011.
23. Hodorog (Rusu) A. D. LISĂ G, IBĂNESCU C, HURDUC N., Thermo-Sensitive Graft Polysiloxanic Micelles, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Tomul LVII (LXI), fasc 3, 165 - 173, 2011.

24. Cioanca E-R, Carlescu I, Lisa G and Scutaru D., Synthesis, liquid crystalline properties and thermal stability of 4-(4-alchyloxifenilazo) benzoic acids, Analele Universităţii din Bucuresti – Chimie (serie nouă), vol 19 no. 2, pag. 39 – 46, 2010
25. Lisa G, Wilson Apreutesei D, Scutaru D, Olaru F, Botnaru V, Lisa C, Thermal degradation in non-isothermal conditions of some ferrocene derivatives, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, ISSN 1582-540X, 2010, 11 (3), pp. 313 – 322, 2010
26. IBĂNESCU S, DANU M, IBĂNESCU C and LISĂ G, Termogravimetric Analysis of Mineral and Synthetic Oils, Buletinul Institutului Politehnic din Iasi, tomul LVI(LX), fasc. 1, 65-71, 2010,
27. Cioancă E.R., Ciobanu C., Lisa G. and Scutaru D., Synthesis and Thermal Behavior of Some Mesogenic Compounds Containing Azo Linkage, Buletinul Institutului Politehnic din Iasi, Tomul LV (LIX), fasc.3, pp 37-48, 2009.
28. Căpraru A.M., Popa V., Lisa G. and Măluţan T., Study Regarding the Modification of Some Lignins from Annual Plant Through Epoxydation, Buletinul Institutului Politehnic din Iasi, Tomul LV (LIX), fasc.4, pp 59-68, 2009
29. Vasilescu M., Zavastin D., Lisa G., Gherman S., Pântaru G., Analiza termogravimetricã a unor sãruri ale acidului oleanolic, Rev. Med. Chir. Soc. Med. Nat., Iasi, vol. 113. nr.2, supliment 4., B+, 2009
30. Lisa G., Lisa C., Curteanu S., Modular neural network modeling for refractive indices of some binary systems, Studii si cercetari stiintifice, Univ. Bacau, Vol. X (3), 227-234, B+, 2009
31. Lisa G., Apreutesei D., Lisa C., Surface tension and excess thermodynamic properties of binary mixtures isopropanol – water and n-butanol – water", Buletinul Institutului Politehnic din Iasi, tomul LIV(LVIII), fasc. 2, 49-54, 2008.
32. Hurduc V., Lisa G., Lungu M., A survey of thermal behaviour of some hetero-organic polymers with controlled architecture", Buletinul Institutului Politehnic din Iasi, tomul LIV(LVIII), fasc. 3, 27-38, 2008.
33. Nor I., Lisa G., Hurduc N., Sandu V., Synthesis and thermal behavior of brush and star polymers obtained by ATRP reactions"Buletinul Institutului Politehnic din Iasi, tomul LIV(LVIII), fasc. 1, 67-76, 2008.
34. Garlea. A, Melnig V., Popa M.I., Lisa G., Chitosan-polyphenols nanostructured matrices drug release kinetics studies", Analele Ştiinţifice ale Universităţii „Al.I. Cuza" Iaşi, Tomul IV, s. Biofizică, Fizică medicală şi Fizica mediului, 25-30, 2008.
35. Vlad-Bubulac T., Hamciuc C., Petreus O., Lisa G. "Phosphorus-containing polyesters and polyesterimides. Synthesis and characterization" Bulletin of the Transilvania University of Brasov, 129-134, 2007.
36. Hamciuc C., Ipate A. M., Hamciuc E., Vlad-Bubulac T., Petreus O. and Lisa G. "Poly(1,3,4-oxadiazole-ether)s. Synthesis and characterization" Bulletin of the Transilvania University of Brasov, 103-108, 2007.
37. Lisa C., Curteanu S., Lisa G. and Apreutesei D. "Neural networks used to predict the relationship between liquid crystalline behavior and chemical structures", Bulletin of the Transilvania University of Brasov, 521-526, 2007.
38. Lisa G., Apreutesei D., Lisa C., „Densities, viscosities, refractive indices and excess thermodynamic properties of binary mixtures propionic acid - toluene", Buletinul Institutului Politehnic din Iasi, tomul XX, (3-4), 2007.
39. Hamciuc C., Vlad-Bubulac T., Petreus O., Lisa G., "Thermal degradation kinetics of some phosphorus containing aromatic polyesters", Buletinul Institutului Politehnic din Iasi, tomul XX, (3-4), 2007.
40. Bolat G., Lisa G., Popa I.M., „Excess molar volumes of binary mixtures etylbenzene – heptane, octane, nonane, decane and dodecane mixtures at 318,15 K", Buletinul Institutului Politehnic Iaşi, tomul XXI, (1-2), Secţia II, Chimie şi Inginerie, 30-38, 2006.
41. Lisa C., Lisa G., „Refractive indices and molar volumes of binary mixtures n-propanol – water and n-propanol – toluene", Buletinul Institutului Politehnic din Iasi, tomul LI(LV), (3-4), 7-13, 2005.

42. Bolat G., Lisa G., Popa I.M., „Study of the deviation from ideality of the binary mixtures acetic acid-water, acetic acid – n- hexane and acetic acid - n-heptane”, Buletinul Institutului Politehnic din Iasi, tomul XX, (1-2), 25-32, 2005.
43. Lisa G., Curteanu S., „Artificial neural network modeling for density of some binary systems”, Studii si cercetari stiintifice, Univ. Bacau, VI (1), 65-79, 2005.
44. Curteanu S., Lisa G., „Neural Network Based Modeling for Viscosity of Some Binary Systems”, Buletinul Institutului Politehnic din Iasi, tomul XL (fasc 3-4), 96-107, 2004.
45. Lisa G., Balau L., Popa M.I., Tura V., Apostu M., Tampu D., Melnig V., „Physico-chemical propertis of chitosan membranes”, Analele Universitatii de Stiinte Agricole si Medicina Veterinara Ion Ionescu de la Brad, Iasi, 65-70, 2004.
46. Ciobanu G., Lisa G., Caraiman M., „Analiza termogravimetrica a lanii supusa tratamentelor in plama DBD”, Revista Romana de Textile-Pielarie, 3, 19-25, 2003.
47. Popa I.V., Lisa G., Ionescu Gh. +, Apreutesei D., „Programs for the interpretation of the experimental data regarding the intrinsic parameters of viscous flow at the binarys solutions”, Buletinul Institutului Politehnic din Iasi, tomul XLIX, (5), 225-230, 2003.
48. Apreutesei D., Lisa G., Hurduc N., Scutaru D., „Thermal behavior of some ferrocene acids”, Annals of West University of Timisoara, Series Chemistry, 12 (3), p. 183-190, 2003.
49. Aelenei N., Lisa G., Irimia M., Paduraru G., Avram E., Hurduc N., „Polystyrene, polysulfone and their chloromethylated derivatives compatibility in solid phase”, Annals of West University of Timisoara, Series Chemistry, 12 (3), p. 821-829, 2003.
50. Bolat G., Lisa G., Popa I.M., „Viscosimetric behavavior of water-acetic acid and toluene-acetic acid solutions”, Annals of West University of Timisoara, Series Chemistry, 12 (3), p. 989-996, 2003.
51. Carja G., Irimia M., Lisa G., Hurduc N., „The role of copper on the physico-chemical characteristics of the substituted hydrotalcite”, Annals of West University of Timisoara, Series Chemistry, 12 (3), p. 1015-1022, 2003.
52. Lisa G., Irimia M., Apreutesei D., Lisa C., „Study of the intrinsic properties of viscous flow in the n-propanol-toluene system”, Annals of West University of Timisoara, Series Chemistry, 12 (3), p. 989-996, 2003.
53. Foca N., Lisa G., „Synthesis and characterisation of some complexes of Cr(III), Fe(III) and Zr(IV) using as ligands substituited o-hydroxy benyophenone”, Buletinul Institutului Politehnic din Iasi, tomul XLIX (5), p. 99-104, 2003.
54. Rosca I., Lisa G., Nichita M., Apostolescu G., „Thermal stability of some lanthanum complexes with beta diketones”, Buletinul Institutului Politehnic din Iasi, tomul XLIX (5), p. 105-110, 2003.
55. Lisa G., Scutaru A.M., Irimia M., Ionescu Gh., Apreutesei D., „Viscosimetric behavior of water–n-propanol solution”, Studii si cercetari stiintifice, Univ. Bacau, tomul IV (1-2), p. 61-68, 2003.
56. Lisa G., Hurduc N., Rosca C., Balau L., Popa M.I., “Comportement thermique de quelques systemes polymere-principes bioactifs ”, Studii si cercetari stiintifice, Univ. Bacau, III (1-2), p. 21-28, 2002
57. Lisa G., Aelenei N., Curteanu S., Popa I.V., “Equations for vapor pressure of pure substances”, Proceedings of the Romanian Academy, Series B, vol. 4, Nr. 2, p. 51-57, 2002.
58. Carja G., Popa I.M., Sibiescu D., Lisa Apreutesei G., “Study of the mesoporosity characteristics of vanadium containing hydrotalcite-like material by using N2 adsorbtion method”, Annals of West University of Timisoara, Series Chemistry, 10(2), p. 721-728, 2000.
59. Lisa G., Tudose R.Z. “Transferul de masa interfazic in sisteme eterogene lichid-lichid. Coeficienti individuali de transfer”, Memoriile sectiilor stiintifice ale Academiei Romane, seria IV, Tomul XXIV, p. 107-129, 2001
60. Lisa G., Ionescu Gh.+, Apreutesei D., „Viscosimetric behavior of water-propionic acid and toluene-propionic acid solutions”, Proceedings of the Romanian Academy, Publishing house of the Romanian Academy, 2, Bucuresti, p. 27-32, 2003.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. Gutanu V, Petuhov, O., Ipate, AM., **Lisa G**, Botnaru M. Composites – precursors for obtaining new sorbemts and catalysts, Conference: Scientific seminar "Advanced materials to reduce the impact of toxic chemicals on the environment and health", DOI: 10.19261/admateh.2023.ab04
2. Paula SIMIONESCU, **Gabriela LISA**, EVALUATION OF THE THERMAL STABILITY OF SOME SPREADABLE FOOD PRODUCTS, Conferinţa Tehnico-Ştiinţifică a Studenţilor, Masteranzilor și Doctoranzilor, Universitatea Tehnică a Moldovei, Chișinău, Republica Moldova, 29-31 Martie 2022, Vol. I, 466-469

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1.Gutanu V, Petuhov, O., Ipate, AM., Lisa G, Botnaru M., Composites – precursors for obtaining new sorbemts and catalysts, Conference: Scientific seminar "Advanced materials to reduce the impact of toxic chemicals on the environment and health", Advanced materials to reduce the impact of toxic chemicals on the environment and health", scientific seminar (2023 ; Chisinău), 978-9975-62-559-3, pg. 12, Chisinau, 21 septembrie, 2023, 10.19261/admateh.2023.ab04

2.Alina-Alexandra Ciobanu, Andrei Ilău, Gabriela Lisă, Laura Bulgariu, Effect of Pyrolysis Temperature on Characteristics of Biochars Derived from Marine Algae Biomass (Ulva lactuca), Advances in Digital Health and Medical Bioengineering: Proceedings of the 11th International Conference on E-Health and Bioengineering, EHB-2023, vol 3, pg. 225, November 9–10, 2023, Bucharest, Romania–Volume 3: Telemedicine, Biomaterials, Environmental Protection, Medical Imaging, and Biomechanics, 2024.

J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

1. **Lisa Gabriela director proiect G.Lisa:** Proiect PNII ID_600/nr. 64/1.10.2007, cu titlul „*Noi aplicatii ale instrumentelor inteligentei artificiale in modelarea si estimarea unor proprietati fizico-chimice*”, beneficiar UEFISCSU membri in colectiv: Silvia Curteanu, Daniela Apreutesei, Aioanei Roxana, Nistor Alexandra, perioada 2007-2010, valoare 678000 RON**.**
2. **Lisa Gabriela director grant:** Grant At cod CNCSIS 62, tema 64, nr.27637/14.03.2005, cu titlul „*Studiu experimental privind transferul de masa interfazic in sistemele eterogene lichid-lichid. Modelarea cu ajutorul reţelelor neuronale*”, membri in colectiv: Ciubotariu Claudiu, Scutaru Ana Maria, Rusu Mircea, Archip Alexandru, Gavrilescu Marius, 2005, valoare 15000 RON.
3. **Lisa Gabriela director grant:** Grant CNCSIS At, tema 1, cod CNCSIS 65, contract 42518/10.11.2004, cu tema “Studiul comportarii viscozimetrice si modelarea cu ajutorul retelelor neuronale a sistemelor lichide binare” membri in colectiv: Leon Florin, Bolat Georgiana, Scutaru Ana Maria, Rusu Mircea, Archip Alexandru, 2004, valoare 5000 RON.
4. **Lisa Gabriela director grant:** Grant CNCSIS At, nr. 33479/17.07.2002, tema 97, cod CNCSIS 95, beneficiar CNCSIS, “*Studiul transferului de masă din soluţii apoase în solvenţi organici. O nouă metodă experimentală de determinare a coeficienţilor individuali de transfer de masă” (Etapa I: Studiul parametrilor intrinseci ai curgerii vâscoase în sistemele: apă-alcooli alifatici saturaţi; apă-dioli; apă-acizi carboxilici; respectiv solvenţi organici-alcooli, dioli, acizi carboxilici)*”
membri in colectiv: Mareci Daniel, Irimia Marinela, Apreutesei Daniela, Scutaru Ana Maria, Popa Ionel Valentin, 2002, valoare 5500 RON.
5. **Lisa Gabriela director grant:** Grant CNCSIS At, nr. 33576/7.01.2003, tema 51, cod CNCSIS 79, beneficiar C.N.C.S.I.S, “ *Studiul transferului de masă din soluţii apoase în solvenţi organici. O nouă metodă experimentală de determinare a coeficienţilor individuali de transfer de masă (Etapa II: Determinarea coeficienţilor individuali de transfer de masă din soluţii apoase în solvenţi organici. ecuatii criteriale*)”, membri in colectiv: Mareci Daniel, Irimia Marinela, Apreutesei Daniela, Scutaru Ana Maria, Popa Ionel Valentin, 2003, valoare 3600 RON.

6. **Lisa Gabriela responsabil economic la proiectul CEEX:** Contract CEEX nr. 108/9.10.2006, beneficiar MCT „*Noi sisteme nanostructurate utlizate pentru eliberarea controlata a agentilor farmacologici*- NANOCOFARM", Popa Ionel Marcel (director proiect), colectiv: Aelenei Neculai, **Gabriela Lisa**, Doina Hritcu, Catalin Lisa, Corina Malutan, Mareci Daniel, perioada 2006-2008, valoare
1 500 000 RON.

Membru în colectiv

1.Lisa Gabriela, membră în proiectul PNIV1- PCE Contract nr. 18PCE/ 8.01.2025, Noi fluide de transfer termic în operații de schimb de căldură
2.Lisa Gabriela, membră în proiectul CNFIS-FDI-2025-F-0069**,** Inserția profesională de succes a absolvenților TUIASI susținută prin dezvoltare instituțională- Insert-Ing
3.Lisa Gabriela, membra în proiectul Contract tip: PR/NE/2024/P1/RSO1.1_RSO1.3/1 - Proiecte de CDI și investiții în IMM, nr. 739 / 25.07.2025
4.Lisa Gabriela, membra în proiectul POCU/993/6/13/153437 Rețea de excelență în cercetare și inovare aplicativă pentru programele de studii doctorale și postdoctorale InoHubDoc
5.Lisa Gabriela, membră Contract 7335/14.10.2022_Serviciilor de consultanta in cercetare industriala –pentru proiectul "Proiect tehnologic inovativ pentru dezvoltarea unui grup de materiale de tip AIM (Advanced Inorganic Materials)", SMIS 120951 finantat prin Programul Operational Competitiv 2014-2022, Axa 1-Cercetare, dezvoltare tehnologica si inovare (CDI) in sprijinul competitivitatii economice si dezvoltarii afacerilor", director Harja Maria- 171.286,75 lei (34,708.56 E) 2022 - 34.257 lei – 9 membri
6.Lisa Gabriela, membra în proiectul Proiectului "Calitate in invatamantul superior: internationalizare si baze de date pentru dezvoltatea invatamantului romanesc" - POCU 126766. Expert universități A.4.5, Angajator Unitatea Executiva pentru Finantarea Invatamantului Superior a Cercetarii Dezvoltarii si Inovarii- UEFISCDI, cu sediul în Bucuresti, sector1, str. Mendeleev nr.21-25, înregistrată la registrul cod fiscal 12354176, reprezentată legal prin Dl. Adrian Curaj - Director General si pt Director Economic D-na Lucia Boicenco; perioada 03.01.2022 pana la data de 28.02.2022, venituri salariale 14072 RON.
7.Lisa Gabriela, membra in proiectul Proiect PCE 39/2021 (cod UEFISCDI: PN-III-P4-ID-PCE-2020-1520): Biofiltrarea aerului din spatii urbane subterane cu trafic auto (Biofiltration of air from urban automotive underground spaces) (BIO-AUTO), Project number: PCE 39 / 2021, valoare etapa 2 (2022) 262200 RON (9 membri).
8.Lisa Gabriela membră în colectivul proiectului intitulat „Azopolimeri fotosensibili pentru aplicaţii biologice (BIOAZO)", Proiect bilateral ROMANIA – FRANŢA, director proiect prof.dr.ing. Nicolae Hirduc, proiect C1-01, 2010-2013**,** valoare 420000 RON.

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale

9.Lisa Gabriela membră în colectivul proiectului intitulat „Produse software bazate pe algoritmi de inteligenta artificiala cu aplicatii in modelarea si optimizarea sistemelor chimice", CONTRACT: PN-II-PT-PCCA-2011-32-0732, Nr 23/2012, perioada 2012-2016, http://proiecte.romus.com/proiecte/uti/web/web_index.php?id=51 valoare 1580081 RON.
10. **Lisa Gabriela membra in echipa de cercetare:** Contract Platforma proiect CNCSIS nr. 69/2006 „Materiale polimerice multifunctionale inalt performante pentru medicina, farmacie, microelectronica, stocare de energie/informatii, protectia mediului", Colectiv: Bogdan C. Simionescu (director Platforma), V.I.Popa, Dan Galea, Marcel Popa, Marcel Ionel Popa, Nicolae Hurduc, Constanta Ibanescu, Geta David, Maria Lungu, Dan Gavrilescu, Dan Scutaru, **Gabriela Lisa**, Silvia Curteanu, Catalin Lisa, perioada 2006-2008, valoare 3 000 000 RON.
http://omicron.ch.tuiasi.ro/~nhurduc/matmip/colectiv.html
11. **Lisa Gabriela membra în echipa de cercetători**: *Sisteme azopolimerice nanostructurate cu aplicatii in microelectronica si biologie (AZONANO)*, **Contract CEEX 107/09.10.2006**, Nicolae Hurduc (director proiect), colectiv Constanta Ibanescu, Dan Scutaru, Maria Lungu, Camelia Mihailescu, **Gabriela Lisa,** perioada 2006-2008, valoare 1 500 000 RON.
12. **Lisa Gabriela membra în echipa de cercetători**: *Transport de spin si sarcina prin tunelare in compozite cu semimetale cu polarizare de spin inalta (COMPOSPIN)*, **Contract CEEX**, Nr Subcontract **2-CEX-06.11.45**, Beneficiar: Institutul National de Cercetare-Dezvoltare pentru Fizica Materialelor Bucuresti, Nicolae Hurduc **(responsabil din Partea partener 1 – UTI**), Colectiv: Dan Scutaru, Camelia Mihailescu, Constanta Ibanescu, **Gabriela Lisa**, Catalin Lisa, perioada 2006-2008, valoare 300 000 RON.
13. **Lisa Gabriela membra în echipa de cercetători:** *Cercetari privind implementarea separarii magnetice in detoxificarea sangelui uman utilizand particule magnetice suport*, **PNCD II nr. 81051/2/14.09.2007**, Marcel Ionel Popa (director proiect), colectiv: Niculina Popa, Doina Hritcu, **Gabriela Lisa**, Constanta Ibanescu, Catalin Lisa, perioada 2006-2008, valoare 450000 RON

14. **Lisa Gabriela membra în echipa de cercetători:** *Noi sisteme terapeutice, donoare de oxid nitric, cu eliberare controlata*, PNCD II nr. 41-017/2007 Marcel Ionel Popa (director proiect), colectiv: Niculina Popa, Doina Hritcu, Gabriela Lisa, Constanta Ibanescu, Catalin Lisa, perioada 2006-2008, valoare 500000 RON.
15. **Lisa Gabriela membra în echipa de cercetători:** *Centru de evaluare a performanţelor termo-reologice ale materialelor polimerice de la sinteză la produs final (CENTER)*, **Contract Capacitati, PNII, Modulul I, Pi-CD, nr.183 CPI/05.09.2008, (2008-2010)**, responsabil din partea UTI Constanta Ibanescu, Colectiv: Nicolae Hurduc, **Gabriela Lisa, 2007, valoare** 212000 RON.
http://www.icmpp-center.ro/echipa.html
16. **Lisa Gabriela membra în echipa de cercetători:** *Cercetari privind obtinerea de noi materiale micro si nanostructurate cu aplicatii biomedicale,* grant CNCSIS cod 260, gr 77/18.06.2008, director grant Popa Ionel Marcel, colectiv: Aelenei Neculai, **Gabriela Lisa**, Daniel Mareci, Gina Ungureanu, perioada 2007-2008, valoare 192865.45 RON.
17. **Lisa Gabriela membra în echipa de cercetători:** *Cercetari privind obtinerea de noi materiale micro si nanostructurate cu aplicatii biomedicale,* grant CNCSIS cod 260, gr 33/2007, tema 30, director grant Popa Ionel Marcel, colectiv: Aelenei Neculai, **Gabriela Lisa**, Daniel Mareci, Gina Ungureanu, perioada 2007-2008, valoare 192865.45 RON.
18. **Lisa Gabriela membra în echipa de cercetători:** „Utilizarea reţelelor neuronale şi a algoritmilor genetici în ingineria reacţiilor de polimerizare. aplicaţii la modelarea şi optimizarea sintezei polisiloxanilor", contract CERES, beneficiar Institutul de Fizica Atomica Bucuresti, contract nr. 4-22/2004, director proiect Silvia Curteanu, din partea UTI: **Gabriela Lisa**, Corneliu Petrila, Victor Bulacovschi, Lisa Catalin, Daniela Apreutesei, perioada 2004-2006, 120 000 RON**.**
19. **Lisa Gabriela membra în echipa de cercetători:** „Materiale compozite nanostructurate polimerice cu utilizare in monitorizarea mediului. Modelare şi optimizare cu reţele neuronale şi algoritmi genetici", contract CEEX nr. 10/10.10.2005, subcontract 3, beneficiar MCT, responsabil din partea UTI Silvia Curteanu, colectiv: **Gabriela Lisa**, Corneliu Petrila, Victor Bulacovschi, Lisa Catalin, Daniela Apreutesei, Florin Leon, etc, perioada 2005-2008, valoare 91 000 RON.
20. **Lisa Gabriela membra în echipa de cercetători** „Materiale siliconice nanostructurate multifuncţionale", subcontract "Tehnici ale Inteligenţei Artificiale aplicate modelării şi optimizării unor materiale siliconice", Contract CEEX nr. 52/2006, subcontract 1, responsabil din partea UTI Silvia Curteanu, **Gabriela Lisa**, Victor Bulacovschi, Lisa Catalin, Daniela Apreutesei, Florin Leon, Gabriel Suditu, George Piuleac, etc, perioada 2006-2008, valoare 300 000 RON.
21. **Lisa Gabriela membra în echipa de cercetători** „Modelare şi conducere automată utilizând instrumente ale inteligenţei artificiale pentru aplicaţii în chimie şi inginerie de proces", PN II, Parteneriate în domenii prioritare, PC, contract nr. 71 – 006/18.09.2007, director proiect Silvia Curteanu, colectiv Gabriela Lisa, Victor Bulacovschi, Lisa Catalin, Daniela Apreutesei, Florin Leon, Gabriel Suditu, George Piuleac, Camelia Mihailescu, perioada 2007-2008, valoare 125 000 RON.
22. **Lisa Gabriela membra în echipa de cercetători**: "Cristale lichide hetero-organice pentru pentru tehnologii avansate", Cod CNCSIS 54, tema 72, director Dan Scutaru, membri membri Nicolae Hurduc, Gabriela Lisa, Daniela Apreutesei, Irina Carlescu, etc, perioada 2004-2006, valoare 45 000 RON.
23. **Lisa Gabriela membra în echipa de cercetători**: Studii de extractie lichid-lichid, IV, contract de cercetare nr. 7002/1997, grant 613, tema 12, beneficiar M.E.N, director prof univ dr. doc. ing. Radu Z. Tudose, colectiv, Liliana Doina Horoba, Gabriela Apreutesei (Lisa), Stelian Pentrescu, etc.
24. **Lisa Gabriela membra în echipa de cercetători**: Studii de extractie lichid-lichid, V, contract de cercetare nr. 37/1998, grant 542, beneficiar M.E.N, director prof univ dr.doc.ing. Radu Z. Tudose, Liliana Doina Horoba, Gabriela Apreutesei (Lisa), Stelian Pentrescu, etc.
25. **Lisa Gabriela membra în echipa de cercetători**: Studiul si modelarea extractiei lichid-lichid cu ajutorul unor metode si aparate noi. Etapa I: Studiul transferului de masa in aparate bicelulare. Coeficientii de transfer de masa", contract nr. 6177/2000, tema B 46, beneficiar ANSTI. director prof univ dr.doc. ing. Radu Z. Tudose^{+}, colectiv: Gabriela Lisa, Horoba Liliana Doina, Stelian Petrescu, etc.
26. **Lisa Gabriela membra în echipa de cercetători**: Studiul si modelarea extractiei lichid-lichid cu ajutorul unor metode si aparate noi. Etapa II: Factori care influenteaza transferul de masa in extractia lichid-lichid in aparate bicelulare", contract nr. 6177/2001, act aditional 1/2001 tema A 28, beneficiar ANSTI. director prof univ dr.doc.ing. Radu Z. Tudose^{+}, Gabriela Lisa, Horoba Liliana Doina, Stelian Petrescu, etc
27. **Lisa Gabriela membra în echipa de cercetători**: Studiul si modelarea extractiei lichid-lichid cu ajutorul unor metode si aparate noi. Etapa III, contract nr. 33479/17.07.2002, beneficiar C.N.C.S.I.S, director prof univ dr.doc.ing Radu Z. Tudose^{+}**,** colectiv: Gabriela Lisa, Horoba Liliana Doina, Stelian Petrescu, etc.

L. Premii, distincţii.

1. Medalia de aur pentru inventia Procedeu de regenerare a cărbunelui activ, autori, Vasile Guțanu, Maria Botnaru, Oleg Petuhov, Gabriela Lisa la Salonul internațional de invenții inovații Traian Vuia, Timisoara, 10 octombrie 2022.

2. Diploma de excelență și medalia de aur pentru invenția Procedeu de regenerare a cărbunelui activ, autori, Vasile Gutsanu, Maria Botnaru, Oleg Petuhov, Gabriela Lisa la Salonul Internațional al Cercetării Științifice, inovării și inventicii PRO INVENT ediția XX, 26-28 octombrie 2022.
3. Medalia Gheorghe Asachi şi Premiul pentru cercetătorul cu cele mai bune performanţe în cercetarea ştiinţifică - Gala Premiilor de excelenţă în cercetarea ştiinţifică din Universitatea Tehnică "Gheorghe Asachi", Iaşi -2013
4. Diploma de Excelenta si Medalia de Argint – Salonul international jubiliar al cercetarii, inventiilor si transferului tehnologic, INVENTICA 2008; Medalia de Bronz – la Euro Invent 2010;
5. Premiul pentru cea mai bună lucrare publicată în anul 2007 în revista Materiale Plastice,

M. Alte realizări semnificative.

N. Participari la Conferinte Internationale

1.	MIHAILĂ Laurențiu-Constantin , **LISA Gabriela**	EXPERIMENTAL STUDY ON THE INFRARED DRYING OF USED COFFEE GROUND	poster	International Chemical Engineering and Materials Symposium, SICHEM 2024 POLITEHNICA Bucharest, Romania, 6-7 November
2.	Carlescu I. , Avram R. , Gheorghita A. M. , Zaharia D. , Simion A. , Berladean I. , Ciobanu C. I. , LisaG.	Influence of lateral substituents and long terminal flexible chains on the mesomorphic properties of seven-ring symmetrical bent-shaped derivatives	poster	17th European Conference on Liquid Crystals, Institute of Physics of the Czech Academy of Sciences University of Chemistry and Technology, Prague, Czech Republic, June 1–6, 2025
3.	Gutsanu V, Lisa G., Ipate A.-M., Botnaru M.	Cr-POLYMER COMPOSITE PRECURSOR FOR OBTAINING AN ADSORBENT	poster	13th International Conference on Environmental Engineering and Management, 17 - 20 September 2025, Iași Romania
4	Danilova V, Postolache L-V, Coman D, Bele A, Roman C, Lazar L, Lisa G	LONG-TERM STABILITY OF POLYMER RESINS USED IN BRINE PURIFICATION AND ASSESSMENT OF ENERGY RECOVERY POTENTIAL OF RESINS WASTE	orală	13th International Conference on Environmental Engineering and Management, 17 - 20 September 2025, Iași Romania
5.	Postolache L-V, Soreanu G, Cretescu I, Lisa G	Postolache L-V, Soreanu G, Cretescu I, Lisa G	poster	13th International Conference on Environmental Engineering and Management, 17 - 20 September 2025, Iași Romania
6.	Nistor L, Michinobu T, Lisa G	Study of phase transitions in supramolecular materials for third-order nonlinear optics	orala	4th Journal of Thermal Analysis and Calorimetry Conference & 10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference, 24–27 June 2025 Budapest, Hungary

7.	Mihailă L-C, Lisa C, Mămăligă I, Lisa G	The kinetic study of the drying process of food industry waste	poster	4th Journal of Thermal Analysis and Calorimetry Conference & 10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference, 24–27 June 2025 Budapest, Hungary
8.	Mihailă A, Zaltariov M-F., Lisa G	Research on the thermal stability of painted layers on wooden substrates	poster	4th Journal of Thermal Analysis and Calorimetry Conference & 10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference, 24–27 June 2025 Budapest, Hungary
9.	Nistor L , Michinobu T, Lisa G.	Thermal Decomposition Mechanism and Thermogravimetric Analysis (TG-MS-FTIR) of a Supramolecular Compound with Third-order Nonlinear Optical	orala	2nd International Conference on Materials Science and Engineering October 06-07, 2025 in Paris, France
10	Cleminte CI, Lisa C, Mămăligă I, **Lisa G**	Investigation of Mass and Heat Transfer During the Sublimation of Organometallic Compounds Using Thermogravimetric Analysis	poster	Materials, Methods & Technologies, 14-17 August 2025, Burgas, Bulgaria
11,	Nistor L , Lisa C., Michinobu T, **Lisa G.**	STUDY OF MASS AND HEAT TRANSFER IN SUBLIMATION USING THERMOGRAVIMETRIC ANALYSIS	orala	”Gheorghe Asachi” Technical University of Iasi, Romania, 8th International Conference of the Doctoral School, May 14 - 16, 2025, Iaşi, România
12,	Mihăilă L-C, Lisa C, Mămăligă I, Lisa G	EXPERIMENTAL RESEARCH ON MOISTURE REMOVAL FROM SPENT COFFEE GROUNDS	orala	”Gheorghe Asachi” Technical University of Iasi, Romania, 8th International Conference of the Doctoral School, May 14 - 16, 2025, Iaşi, România
13,	Stoica I, Zaltariov M-F, Mihaila A., Lisa G.	Assessment of the natural aging of alkyd paints employed for wood preservation with atomic force microscopy techniques	orala	CULTURAL HERITAGE OF YESTERDAY – CONTRIBUTION TO THE DEVELOPMENT OF A SUSTAINABLE SOCIETY OF TOMORROW, Conferință științifică internațională organizată în contextul Zilei Internaționale a femeilor și fetelor cu activități în domeniul științei, Iași-Chișinău-Lviv, 11-12 februarie 2025

14.	Fasniuc Pereu E, **Lisa G**, Buburuzan A-M and Bulgariu L	Functionalization of PET fibers with alginate: Structural and adsorptive characteristics	orala	E-HEALTH AND BIOENGINEERING CONFERENCE - EHB 2025, 13-th edition, Iași, Romania, November 13-14, 2025
15.	Loredana-Vasilica Postolache, Dumitru Coman, Catalin Lisa, Gabriela Lisa, Liliana Lazar	Thermal stability of polymer resins used in secondary purification of brine for electrolysis in chlor-alkaline membrane cells	poster	International Conference on Materials Science and Engineering, 14-15 November 2024 Rome, Italy, https://prezentis.com/material-science/2024/conference-book pg.38
16.	Loredana-Vasilica POSTOLACHE, Ion ANGHEL, Dana Maria PREDA, Gabriela ȘOREANU, Igor CRETESCU, Gabriela LISA	STUDIES ON ENERGY RECOVERY FROM WASTES USING THE MICROSCALE COMBUSTION CALORIMETER (MCC)	orala	International Chemical Engineering and Material Symposium, SICHEM 2024, 11-12 April , Bucharest, 2024 p.10
	Paula Olaru (Simionescu căs. Rusu) , Alina-Mirela Ipate, Maricel Danu1 , Constanța Ibănescu, Corina Cernătescu, Gabriela Lisa	Noi posibilități de valorificare a uleiurilor alimentare uzate	poster	SIMPOZIONUL INTERNAŢIONAL DE PRODUSE COSMETICE ŞI AROMATIZANTE ”COSMETOLOGIA – TRADIȚIE, INOVAȚIE, SUSTENABILITATE” IAȘI, 23 – 24 MAI 2024
17.	L-V Postolache, I Anghel, DM Preda, G Șoreanu, I Crețesc, JL Valverde, G Lisa	STUDIES ON ENERGY RECOVERY FROM BIOMASS WASTES USING THE MICROSCALE COMBUSTION CALORIMETER (MCC)	poster	International Conference on Materials Science and Engineering, 14-15 November 2024 Rome, Italy https://prezentis.com/material-science/2024/conference-book pg.40
18.	Paula Olaru Simionescu Rusu, Alina-Mirela Ipate, Gabriela Lisa	THE RECOVERY OF WASTE COOKING OIL BY TRANSFORMING INTO VALUE ADDED PRODUCTS	orala	7th International Conference of the Doctoral School May 15 - 17, 2024
19.	Cerasela-Ionela Cleminte , Daniela Ionita, Nita Tudorachi, Mariana Cristea and Gabriela Lisa	Assessment of thermal decomposition processes of some symmetric derivatives with two ferrocenyl units	poster	4 th International Conference on Applied Science and Engineering Jun 27-28, 2024, Vienna, Austria p.58
20.	A. Mihăilă, A-M. Ipate, M.-F. Zaltariov, D. Rusu, R. Constantinel, G. Lisa	Environmental factors action on the products used for wood substrates protection	orala	4 th International Conference on Applied Science and Engineering Jun 27-28, 2024, Vienna, Austria p.42

Data,
15.10. 2026

Semnătură,

Lista de lucrări în domeniul de studii universitare de licență și masterat în domeniul Ingineria Mediului

Numele şi prenumele: BIALI GABRIELA

A.1. Teza de doctorat.

Instituție: Universitatea Tehnică "Gheorghe Asachi" din Iaşi.
Perioada: 1996-2003
Coordonator: Prof. univ. dr. ing. Nicolae Popovici
Titlul tezei: ***"Cercetări privind prognoza degradării terenurilor prin procese de eroziune pe areale întinse, utilizând tehnica Sistemelor Informaţionale ale Teritoriului în condiţiile din România".***
„Research concerning the predicting erosional land degradation processes for vast areas, using Land Information Systems technique in the specific conditions of Romania".
Susținută în data de 9 mai **2003** la Universitatea Tehnică "Gheorghe Asachi" din Iaşi.
Titlul: DOCTOR în Inginerie Civilă, diploma Seria C, Nr. 0002837 în baza Ordinului Ministrului Educației și Cercetării 4741 / 25.08.2003.

A.2. Teza de abilitare

Instituție: Universitatea Tehnică "Gheorghe Asachi" din Iaşi.
Titlul tezei: "Contribuții în aplicarea tehnologiei GIS în Hidrotehnică și Ingineria Mediului"
"Contributions to the application of GIS Technology in Hydrotechnics and Environmental Engineering"
Susținută în data de 27 ianuarie **2024** la Universitatea Tehnică "Gheorghe Asachi" din Iaşi.
Domeniul: Inginerie Civilă și Instalații
Ordinului Ministrului Educației Nr. 5493 din 09.07.2024

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1	**Biali Gabriela**, *Managementul Mediului. Concepte și principii*. Editura Performantica, Iași. ISBN 978-606-685-644-7, 217 pag., Iaşi, 2019.
2	**Biali Gabriela**, *Amenajarea formaţiunilor torenţiale*. *Îndrumător de proiectare.* Ed. Performantica, ISBN 978-606-685-351-4, 207 pag., Iaşi, 2015.
3	**Biali Gabriela**, *Iniţiere în GIS: Sisteme Informaţionale Geografice.* Editura Performantica, ISBN 978-606-685-096-4, 237 pag., Iaşi, 2013.
4	**Biali Gabriela,** Popovici N., *Amenajarea formațiunilor torențiale. Curs.* Editura Performantica, Iaşi, ISBN 978-973-730-403-2, ISBN: 978-973-038-6, 303 pag., Iaşi, 2008.
5	**Biali Gabriela**, Popovici N., *Amenajări pentru protecţia si conservarea solului*. *Curs.* Editura Performantica, ISBN 973-730-038-6, 358 pag., Iaşi, 2006.
6	**Biali Gabriela**, *Amenajări pentru protecţia si conservarea solului. Îndrumător de lucrări.* Editura PIM, ISBN 10: 973-716-319-2 ; ISBN 13: 978-973-716-319-6, 132 pag., Iaşi, 2006.

7	**Biali Gabriela**, Popovici N., *Tehnici GIS în monitoringul degradării erozionale*. Editura "Gh. Asachi" Iaşi, ISBN 973-621-043-X, 253 pag., 2003.
8	Popovici N., Prioteasa C., **Biali Gabriela**, *Stabilizarea şi valorificarea terenurilor agricole alunecătoare.* Editura "Gh. Asachi" Iaşi, ISBN 973-621-020-0,196 pag., Iaşi, 2003.
9	Popovici N., **Biali Gabriela**, *Sisteme Geoinformaţionale. Principii generale şi aplicaţii*. Editura "Gh. Asachi" Iaşi, ISBN 973-8050-43-X, 275 pag., 2000.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1	**Biali Gabriela,** *Stabilizarea versanţilor. Îndrumător de lucrări.* ROTAPRINT, Universitatea Tehnică "Gh. Asachi" Iaşi, 142 pag., 2002.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Materialele didactice (tip e-learning) pentru curs și proiect la disciplina ***Amenajări pentru protecţia solului*** pentru studenţii de la specializările IPMA şi IFDR din cadrul Facultăţii de Hidrotehnică, Geodezie şi Ingineria Mediului.
http://www.geodesy-instruct.ro/cassso/login?service=http%3A%2F%2Fwww.geodesy-instruct.ro%2Fcas
http://www.geodesy-instruct.ro/ael/crf/list.action#/Director_personal/Amenajari_pentru_protectia_si conservarea solului

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1	Cojocaru Paula, Maria-Cătălina Pastia, **Gabriela Biali,** Cristian Cojocaru **(**2025)*, Heavy metal toxicity on Daphnia magna*. Environments, vol.12(3) 70, **https://doi.org/10.3390/environments12030070**
2	**Biali Gabriela**, Pastia Maria Catalina, Cojocaru Paula, Maftei Carmen Elena (2025), *The applicability of GIS technology in the study of riverbed dynamics and morphology*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. *XIII,* Print ISSN 2285-6064, *30-38*. *In curs de publicare*
3	**Biali Gabriela**., Chiorescu E., Pastia M.C., Topa D., Motrescu I., Cara I.G. (2024), *Research on the use of sludge from the pitești wastewater treatment plant as fertilizer.* Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. XIII, Print ISSN 2285-6064, 30-38. https://landreclamationjournal.usamv.ro/index.php/scientific-papers/current?id=638
4	Cojocaru Paula, **Biali Gabriela (**2023)*, Management of manure.* Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XII, pp. 118-123, ISSN 2285-6072, 2023. https://landreclamationjournal.usamv.ro/index.php/scientific-papers/past-issues?id=584
5	**Gabriela Biali**, Paula Cojocaru (2022), *GIS hydrological modeling in an agricultural river basin with high potential for water erosion*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XI, pp. 406-413, ISSN 2285-6064. http://landreclamationjournal.usamv.ro/pdf/2022.
6	Paula Cojocaru**, Gabriela Biali**, (2022), *Toxicity of copper on the Sinapis alba and Triticum aestivum plants*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XI, pp. 69-75, ISSN 2285-6064. http://landreclamationjournal.usamv.ro/pdf/2022.
7	**Biali Gabriela**, Cojocaru Paula, Schneider Petra (2021), *GIS-based water erosion modelling: the case of high slope water catchment area, Romania*. Environmental Engineering and Management Journal. April 2021,Vol.20, No.4, 613-624. http://www.eemj.icpm.tuiasi.ro/pdfs/vol20/no4/13_301_Biali_20.pdf
8	Cojocaru Paula, **Biali Gabriela**, Statescu Fl. (2021), *Contributions on the centralized collection on manure.* Environmental Engineering and Management Journal. March 2021, Vol.20, No. 3, 371-375. http://www.eemj.icpm.tuiasi.ro/pdfs/vol20/no3/5_288_Cojocaru_20.pdf

9	**Biali Gabriela**, Cojocaru Paula (2021), *The influence of GIS technology in reclamation solutions for sloping land affected by erosion*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. IX, 2020, pp. 161-168. Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064. http://landreclamationjournal.usamv.ro/pdf/2021/Art40.pdf
10	**Biali Gabriela**, Cojocaru Paula, (2021), *GIS technology used to study floods on a river section.* 21th International Multidisciplinary Scientific GeoConference SGEM 2021. Section Cartography and GIS, Vol. 11, Issue 2.1, pp. 701 – 708. https://doi.org/10.5593/sgem2021/2.1/s11.84, (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-82-9, ISSN 1314-2704. http://www.sgem.org.
11	**Biali Gabriela**, Cojocaru Paula, (2021), *Study on crop suitability and agricultural land evaluation using the GIS technology.* 21th International Multidisciplinary Scientific GeoConference SGEM 2021. Section Cartography and GIS, Vol. 11, Issue 2.1, pp. 771 – 780. https://doi.org/10.5593/sgem2021/2.1/s11.92, (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-82-9, ISSN 1314-2704. http://www.sgem.org.
12	**Biali Gabriela**, Cojocaru Paula (2020), *Comparison of simulation models of water erosion using GIS*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. IX, 2020, pp. 161-168. Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064. http://landreclamationjournal.usamv.ro/pdf/2020/Art24.pdf
13	Cojocaru Paula, **Biali Gabriela**, (2020), *Effects of soil pollution with heavy metals on plant seeds of Brassica Napus, Pisum Sativum* and *Secale Cereale*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. IX, 2020, pp. 59-64. Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064. http://landreclamationjournal.usamv.ro/pdf/2020/Art8.pdf
14	**Biali Gabriela**, Cojocaru Paula, Schneider Petra (2019), *Research concerning the improvement of the characteristics of soils affected by landslide*. 19th International Multidisciplinary Scientific GeoConference SGEM 2019. Section Soils, Vol. 19, Issue 3.2, pp. 341 – 348. https://doi.org/10.5593/sgem2019/3.2, (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-82-9, ISSN 1314-2704. http://www.sgem.org.
15	Cojocaru Paula, Statescu Fl. **Biali Gabriela**, (2019), *Toxicity of soil pollution with petroleum on plant seeds.* 19th International Multidisciplinary Scientific GeoConference SGEM 2019. Section Soils, Vol. 19, Issue 3.2, pp. 375 – 382. https://doi.org/10.5593/sgem2019/3.2, (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-82-9, ISSN 1314-2704. http://www.sgem.org.
16	**Biali Gabriela**, Schneider Petra (2019), *Study on the Non-Compliant Landfill from Bârlad in Vaslui County.* Ovidius University Annals of Constanta - Series Civil Engineering, Volume 21, Issue 1, Pages 17–24, ISSN (Online) 2392-6139, DOI: https://doi.org/10.2478/ouacsce-2019-0002.
17	**Biali Gabriela**, Boboc V. (2019), *GIS project on the influence of morphometric factors on soil erosion in a hydrographic basin.* Proceedings of the International Scientific Congress "Life sciences, a challenge for the future", pp. 22 – 27. Editura Filodiritto, Italia, ISBN 978-88-85813-63-2.
18	Boboc V., **Biali Gabriela** (2019), *Aspects regarding the clogging of the accumulation lakes due to the erosion processes on the surface of the reception basin*. Proceedings of the International Scientific Congress "Life sciences, a challenge for the future", pp. 28 – 32. Editura Filodiritto, Italia, ISBN 978-88-85813-63-2.
19	**Biali Gabriela**, Schneider Petra (2018), *The use of GIS in the delimitation of the surface water bodies (homogeneous hydrographic basins*. 18th International Multidisciplinary Scientific GeoConference SGEM 2018. Vol. Section Cartography and GIS, Vol 18, Issue 2.3, pp. 665 – 672 https://doi.org/10.5593/sgem2018/2.3,(ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-41-6. ISSN 1314-2704. http://www.sgem.org.

20	**Biali Gabriela**, Cojocaru Paula (2018), *Use of GIS technique for hydrological modeling of sheet erosion*· 18th International Multidisciplinary Scientific GeoConference SGEM 2018. Section Cartography and GIS, Vol 18, Issue 2.3, pp. 705-712, (ISI proceedings). https://doi.org/10.5593/sgem2018/2.3, Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-41-6. ISSN 1314-2704. http://www.sgem.org.
21	**Biali Gabriela**, Cojocaru Paula, Boboc Valentin (2018), *Modeling erosion degradation on slopes using GIS.* Lucrări Ştiinţifice, Seria Horticultură, Vol. 61, nr.2, 317-322, USAMV "Ion Ionescu de la Brad" Iaşi, ISSN–L=1454-7376 (Print)-ISSN 1454-7376 (Online)=ISSN 2069-8275. http://www.uaiasi.ro/revista_horti/arhiva.php?an=2015&numar=2
22	Boboc Valentin, **Biali Gabriela**, Sârbu Gabriel Constantin (2018), Aspects regarding the lay-out of the flood strips and the elaboration of hazard maps following the subsidence of hydrotechnical works. Lucrări Ştiinţifice, Seria Horticultură, Vol. 61, nr.2, 323-328, USAMV "Ion Ionescu de la Brad" Iaşi, ISSN–L=1454-7376 (Print)-ISSN 1454-7376 (Online)=ISSN 2069-8275. http://www.uaiasi.ro/revista_horti/arhiva.php?an=2015&numar=2
23	Cojocaru Paula, Statescu Fl. **Biali Gabriela** (2017), *Quantification of effects produced by the extraction of mineral aggregates towards water bodies*. Environmental Engineering and Management Journal. April 2017, Vol. 16, No. 4, 897-903. http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no4/14_663_Cojocaru_16.pdf
24	Statescu Fl., Cotiuşcă Zăuca D., **Biali Gabriela** Cojocaru Paula, Pavel V.L (2017), *Influence of soil matrix on soil-water retention curve and hydraulic characteristics*. Environmental Engineering and Management Journal. April 2017, Vol.16, No. 4, 869-877. http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no4/11_653_Statescu_16.pdf
25	Cojocaru Paula, Statescu Fl. **Biali Gabriela** (2017) – *Quantification of effects produced by the extraction of mineral aggregates towards water bodies*. Environmental Engineering and Management Journal. April 2017, Vol. 16, No. 4, 897-903. http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no4/14_663_Cojocaru_16.pdf
26	**Biali Gabriela**, Cojocaru Paula (2017) – *Importance of topology in a GIS project of monitoring the soils in agricultural land.* Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. VI, Print ISSN 2285-6064, Online ISSN 2393-5138, 115-122. http://landreclamationjournal.usamv.ro/pdf/2017/Art26.pdf
27	**Biali Gabriela**, Cojocaru Paula (2017) – *Monitoring the evolution of gullies in a water catchment by GIS techniques.* 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Vol 17, Issue 2.3, pp. 611-618 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-03-4, ISSN 1314-2704, DOI: 10.5593/sgem2017/2.3. http://www.sgem.org.
28	Cojocaru Paula, **Biali Gabriela** (2017) – *Dimensional calculations for the sanitary protection zones of a water catchment*. 17th International Multidisciplinary Scientific GeoConference SGEM, Vol 17, Issue 3.1, pp.199-207 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7408-04-1, ISSN 1314-2704, DOI: 10.5593/sgem2017/3. http://www.sgem.org.
29	Cojocaru Paula, Cotiuşcă Zăuca D., **Biali Gabriela** (2016), *Decontamination of soils polluted with mineral oils by bioremediation*. Environmental Engineering and Management Journal. June 2016, Vol.15, No. 6, 1419-1426. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol15/no6/24_912_Cojocaru_14.pdf
30	Teresneu C.C., Clinciu I., Vasilescu Maria Magdalena, **Biali Gabriela** (2016), *Using the GIS Tools for a sustainable forest management*. Environmental Engineering and Management Journal. February 2016, Vol.15, No. 2, 461-472. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol15/no2/23_632_Teresneu_14.pdf
31	**Biali Gabriela**, Cojocaru Paula (2016) – *Use of GIS technique to design landslide risk assessment maps for agricultural land.* 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Book 2, Vol III, pp. 579-590 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7105-60-5, ISSN 1314-2704, DOI: 10.5593/sgem2016B23. http://www.sgem.org.

32	Cojocaru Paula, **Biali Gabriela** (2016) – *Method of calculation of the drip irrigation water requirement of an orchards in the Moldavian Central Plateau*. 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Book 3, Vol II, pp. 211-218 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4;indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7105-62-9, ISSN 1314-2704, DOI: 10.5593/sgem2016B32. http://www.sgem.org.
33	**Biali Gabriela** (2016) – *Monitoring the effects of excessive use of chemical fertilizers on underground waters by using the GIS technique.* STUDIA UNIVERSITATIS BABES-BOLYAI GEOGRAPHIA, Volume 61 (LXI), 2016, pp. 73 – 84. Editura Casa Cărţii de Ştiinţă, ISSN 1843-5920. http://geographianapocensis.acad-cluj.ro/Revista/index.htm
34	**Biali Gabriela**, Cojocaru Paula, Boboc Valentin (2016) – *Agricultural land management and results of land reform in Romania*. Rv. Lucrari Ştiinţifice. Seria Agronomie, Vol. 59, nr. 2, Universitatea de Stiinte Agricole si Medicină Veterinară "Ion Ionescu de la Brad" Iaşi, Print ISSN: 1454-7414, Electronic ISSN: 2069-6727 pp. 17-22. http://www.revagrois.ro/volum/Vol-59-2-2016.pdf [Cod CNCSIS 477]
35	**Biali Gabriela**, Cojocaru Paula (2016) – *Database search in a GIS application intended for mapping the use categories and anti-erosion systems in Antohesti water catchment area, Bacau county*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. V, Print ISSN 2285-6064, Online ISSN 2393-5138, 115-122. http://landreclamationjournal.usamv.ro/pdf/2016/vol.V/Art19.pdf
36	Cojocaru Paula, **Biali Gabriela** (2016) – *Assessment of the drinking water demand for water supply of the villages located in the area of Barlad hydrographic basin*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. V, Print ISSN 2285-6064, Online ISSN 2393-5138, 67-72. http://landreclamationjournal.usamv.ro/pdf/2016/vol.V/Art11.pdf
37	Patriche C. V., Vasiliniuc I., **Biali Gabriela** (2015) – *Quantitative evaluation of landslide susceptibility in the Bârlad basin.* Environmental Engineering and Management Journal. September 2015, Vol.14, No. 9, 2229-2236. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol14/no9/22_631_Patriche_14.pdf
38	**Biali Gabriela**, Cojocaru Paula (2015) – *GIS applied in assessing water erosion*. 15th International Multidisciplinary Scientific GeoConference SGEM 2015, Vol II, pp. 871-882 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7105-35-3, ISSN 1314-2704, DOI: 10.5593/sgem2015B22 http://www.sgem.org.
39	**Biali Gabriela**, Schneider Petra, Cojocaru Paula (2015) – *Use of GIS technology in surface water monitoring for targeted policy intervention in a mountainous catchment in Romania.* 15th International Multidisciplinary Scientific GeoConference SGEM 2015, Vol II, pp. 1191-1198 (ISI proceedings). Papers indexed in ISI Web of Science database, hi-index = 4; indexed and online visible via SCOPUS and Engineering Village (COMPENDEX) databases, hi-index = 5. ISBN 978-619-7105-35-3, ISSN 1314-2704, DOI: 10.5593/sgem2015B22 http://www.sgem.org.
40	**Biali Gabriela,** Pavel V.L., Severin M. (2015) – *Implementation of GIS techniques in the forecast of soil erosion in the water catchment Antohesti, Bacau county*. Rv. Lucrari Ştiinţifice. Seria Agronomie, Vol. 58, nr. 2, Universitatea de Stiinte Agricole si Medicină Veterinară "Ion Ionescu de la Brad" Iaşi, Print ISSN: 1454-7414, Electronic ISSN: 2069-6727 pp. 95-98. http://www.revagrois.ro/volum/Vol-58-2-2015.pdf [Cod CNCSIS 477]
41	**Biali Gabriela,** Cojocaru Paula, Martinas Astrid Roberta (2015) – *Studies on expansion of degradation processes in agricultural land plots in Iaşi, Bacău and Vaslui counties*. Rv. Lucrari Ştiinţifice. Seria Agronomie, Vol. 58, nr. 2, Universitatea de Stiinte Agricole si Medicină Veterinară "Ion Ionescu de la Brad" Iaşi, Print ISSN: 1454-7414, Electronic ISSN: 2069-6727 pp. 99-103. [Cod CNCSIS 477] http://www.revagrois.ro/volum/Vol-58-2-2015.pdf
42	**Biali Gabriela**, Cojocaru Paula (2015) – *Database role in a GIS project for agricultural management on soils subject to erosion*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. IV, Print ISSN 2285-6064, 154-157. http://landreclamationjournal.usamv.ro/pdf/2015/vol.IV/Art25.pdf
43	Cojocaru Paula, Fl. Statescu, **Biali Gabriela** (2015) – *Drip irrigation system for hippophae rhamnoides on a slope terrain from central Moldavian Plateau*. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. IV, Print ISSN 2285-6064, 29-34. http://landreclamationjournal.usamv.ro/pdf/2015/vol.IV/Art6.pdf

44	Cojocaru Paula, **Biali Gabriela** (2015) – *Chemical statement of water from deep boreholes from the hydrographic basin Bârlad*. Lucrări Ştiinţifice, Seria Horticultură, Vol. 58, nr.2, USAMV "Ion Ionescu de la Brad" Iaşi, Print ISSN: 1454-7414, Electronic ISSN: 2069-6727 pp. 273 – 278. [Cod CNCSIS 477] http://www.uaiasi.ro/revista_horti/arhiva.php?an=2015&numar=2
45	**Biali Gabriela**, Patriche C.V., Pavel V.L. (2014) – *Application of GIS techniques for the quantification of land degradation caused by water erosion*. Environmental Engineering and Management Journal. October 2014, Vol.13, No. 10, 2665-2673. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no4/27_634_Biali_14.pdf
46	Pavel V.L., **Biali Gabriela,** Statescu Fl., Marcoie N., Gavrilescu Maria, Apostol I.C. (2014) – *Study on bioremediation of heavy metal-contaminated soils using the bacteria-plants synergy.* Rv. Lucrari stiintifice. Seria Agronomie, Vol. 57, nr. 2, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi , Print ISSN: 1454-7414, Electronic ISSN: 2069-6727, pp. 125-128. [Cod CNCSIS 477] http://www.revagrois.ro/volum/Vol-57-2-2014.pdf
47	**Biali Gabriela**, Statescu Fl., Pavel V.L. (2013) – *Mapping nitrate levels in groundwater using GIS*. Environmental Engineering and Management Journal. Volume 11, No. 4, 807-814. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol12/no4/27_945_Biali_12.pdf
48	**Biali Gabriela**, Statescu Fl. (2013) – *Application of GIS technique in land evaluation for agricultural uses.* Environmental Engineering and Management Journal. April 2013, Vol.11, No. 4, 821-828. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol12/no4/29_944_Biali_12.pdf
49	Petra Schneider, Ralf Löser, **Gabriela Biali** (2013) – *Water management at the former copper mining site Medet (Bulgaria).* Environmental Engineering and Management Journal. April 2013, Vol.11, No. 4, 834-842. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol12/no4/31_962_Schneider_12.pdf
50	**Biali Gabriela**, Statescu Fl., Pavel V.L. (2013) – *Using GIS technique in evaluation of a terrain affected by heavy metal pollution.* AWERProcedia Advences in Applied Sciences, vol. 1, pp.825-836. Proceedings of Gobal Conference on Environmental Studies (CENVISU-2013), 24-27 April 2013, Turkey. http://www.world-education-center.org/index.php/paas
51	**Biali Gabriela** (2012) – *Complex research on land use in relation to relief factor using GIS technology. Case study.* Analele Universităţii "Ovidius" Constanţa, Anul XIV-Nr.14, Seria Construcţii, ISSN 1584-5990, pag. 13-20. [Cod CNCSIS 32] http://revista-constructii.univ-ovidius.ro/doc/editii/2012.pdf
52	Pisculidis Ghe., **Biali Gabriela** (2012) – *Attenuation of flood waves through a reservoir. Case Study in Fizeş watershed.* Analele Universităţii "Ovidius" Constanţa, Anul XIV-Nr.14, Seria Construcţii, ISSN 1584-5990, pag. 179-186. [Cod CNCSIS 32] http://revista-constructii.univ-ovidius.ro/doc/editii/2012.pdf
53	**Biali Gabriela** (2012) –*The layer "Hydrogeology" necessary for elaborating landslide hazard maps using GIS.* Geographia Napocensis, Anul VI, Nr. 2, Academia Română - filiala Cluj-Napoca, Editura Casa Cărţii de Ştiinţă, p. 158-163, ISSN 1843-5920, http://geographianapocensis.acad-cluj.ro/Revista/index.htm
54	**Biali Gabriela**, Pavel D. (2010) – *The evaluation of the quantities of mineral aggregates extracted from ballast- pits by using the GIS technique*. Case study. Analele Universităţii "Ovidius"Constanţa, Anul XII, Vol. 1, Seria Constructii, ISSN 1584-5990, pag. 289-298. http://revista-constructii.univ-ovidius.ro/doc/editii/2010.pdf [Cod CNCSIS 32]
55	**Biali Gabriela**, Iftode Gabriela (2010) – *The assessment of deformations in the decantation pool Valea Tărnicioara, through the signal analysis method*. Analele Universităţii "Ovidius"Constanţa, Anul XII, Vol. 1, Seria Constructii, ISSN 1584-5990, pag. 299-308. http://revista-constructii.univ-ovidius.ro/doc/editii/2010.pdf [Cod CNCSIS 32]
56	Neculau Claudia, Thierry Nameche, **Biali Gabriela** (2010) – *New technologies for recuperation and transformation of biogas*. Case study Analele Universităţii "Ovidius"Constanţa, Anul XII, Vol. 1, Seria Constructii, ISSN 1584-5990, pag. 335-344. http://revista-constructii.univ-ovidius.ro/doc/editii/2010.pdf [Cod CNCSIS 32]
57	Pisculidis Ghe., **Biali Gabriela** (2010) – *Researches regarding the flood waves attenuation through the Taga Mare accumulation, Fizes Mijlociu hydrographical basin, Cluj county*. În Buletinul Ştiinţific al Universităţii "Politehnica" din Timişoara, Seria Hidrotehnica, Tomul 55 (69), No. 2, pag. 152-159. ISSN 1224-6042. Ed. Politehnica, Timişoara. [Cod CNCSIS 251] http://www.ct.upt.ro/buletinhidro/Files/content_10_2_daiana.pdf

58	**Biali Gabriela**, Morozan Irina, Popovici N. (2007) – *Aspects of monitoring by GIS techniques of the quality of ground water from a specific territory*. Case study. În Lucrările Simpozionului „Sisteme Informaţionale Geografice", Supliment la Analele Ştiinţifice ale Universitaţii „Al. I. Cuza" din Iaşi (Serie nouă), Secţiunea IIc Geografie, nr. 13, Tom LIII, ISSN 1223-5334, p.53-63, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo/about/history http://www.analegeo.uaic.ro/index.php/SciGeo
59	**Biali Gabriela**, Popovici N., Morozan Irina (2006) – *Folosirea tehnicii GIS în acţiunea de bonitare a unui teren agricol afectat de poluare cu metale grele*. *Studiu de caz.* Geographica Tehnica, No.1 Cluj University Press, pp. 19-24. DOI: 10.21163; ISSN 1842-5135 (Printed version); ISSN 2065-4421 (Online version); Indexed by CLARIVATE, ANALYTICS, SCOPUS, GEOBASE, EBSCO, SJR, CABELL. [ISI fără Factor de Impact]. http://technicalgeography.org/index.php/journal-archive
60	Pavel D., Popovici N., **Biali Gabriela** (2006) – *Implementarea tehnicii GIS în evaluarea spaţio-temporală a cantităţii de agregate minerale extrase dintr-o balastieră. Studiu de caz*. Geographica Tehnica, No.1 Cluj University Press, p. 151-156, DOI: 10.21163; ISSN 1842-5135 (Printed version); ISSN 2065-4421 (Online version); Indexed by CLARIVATE, ANALYTICS, SCOPUS, GEOBASE, EBSCO, SJR, CABELL. [ISI fără Factor de Impact]. http://technicalgeography.org/index.php/journal-archive
61	Popovici N., Cojocaru I., **Biali Gabriela**, Pascariu Camelia (2006) – T*he study of a ballast-pit influence on the dynamics of a river bed*. Analele Universităţii din Oradea. Editura Universitatii din Oradea, Fascicula "Construcţii si instalaţii hidroedilitare" Vol. IX, pag. 34-39. I.S.S.N. 1454 – 4067, Oradea. http://webhost.uoradea.ro/editura/reviste.html [Cod CNCSIS 877] http://www.arhiconoradea.ro/JAES/Journal_Archives/Istoric/comunicari%202006.pdf
62	**Biali Gabriela**, Popovici N. (2006) – *Realizarea stratului tematic informaţional „poluarea solului" pentru un teren agricol, necesar acţiunii de bonitare a acestuia prin tehnici GIS. Cu referire la poluarea cu metale grele.* În Lucrările Simpozionului Internaţional "Sisteme Informaţionale Geografice", nr. 12, p. 8-12. Analele Ştiinţifice ale Universităţii "A.I.Cuza", Tom LII, ISSN 1223-5334, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
63	**Biali Gabriela**, Popovici N., Pascariu Camelia (2006) – *Sistem informaţional integrat in monitorizarea calităţii apelor de suprafaţă.* În Lucrările Simpozionului Internaţional "Sisteme Informaţionale Geografice", nr. 12, p. 49 - 56. Analele Ştiinţifice ale Universităţii "A.I.Cuza", Tom LII, ISSN 1223-5334, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
64	**Biali Gabriela**, Popovici N. (2005) – *Implementarea tehnicii GIS în stabilirea notelor de bonitare pe un teritoriu agricol.* În Analele Ştiinţifice ale Univ. "A.I.Cuza" din Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 11, Tom LI, ISSN 1223-5334, p.21-33, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
65	Popovici N., **Biali Gabriela**, Pascariu Camelia (2005) – *Consideraţii asupra straturilor informaţionale ale unui SIG destinat calităţii apelor de suprafaţă dintr-un bazin hidrografic*. În Analele Ştiinţifice ale Univ. "A.I.Cuza" din Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 11, Tom LI, ISSN 1223-5334, p.135-145, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
66	**Biali Gabriela**, Popovici N. (2005) – *Baza de date relaţională într-un proiect GIS destinat evaluării degradării terenurilor prin eroziune*. Studiu de caz. În Analele Ştiinţifice ale Univ. "A.I.Cuza" din Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 11, Tom LI, ISSN 1223-5334, p.181-189, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
67	**Biali Gabriela** (2005) – *Utilizarea tehnicii GIS în evidenţierea proceselor de eroziune în b.h. Găiceana, jud. Bacău.* În Analele Ştiinţifice ale Univ. "A.I.Cuza" din Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 11, Tom LI, ISSN 1223-5334, p.227-235, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
68	Lefter C., **Biali Gabriela**, Popovici N. (2005) – *Amenajări hidrotehnice de reconstrucţie ecologică iniţiate în Delta Dunării.* În Analele Universităţii din Oradea, Fascicula Construcţii si Instalaţii Hidroedilitare, vol. VIII, Ed. Univ. din Oradea, ISSN 1454-4067, p.40-48, Oradea. http://www.arhiconoradea.ro/JAES/Journal_Archives.htm [Cod CNCSIS 877]
69	Lefter C., **Biali Gabriela**, Popovici N. (2005) – *Modificări morfometriceale albiei braţului Sfântul Gheorghe datorate unor tăieri de coturi în zona Dranov.* În Analele Universităţii din Oradea, Fascicula Construcţii si Instalaţii Hidroedilitare, vol. VIII, Ed. Univ. din Oradea, ISSN 1454-4067, p.48-54, Oradea. http://www.arhiconoradea.ro/JAES/Journal_Archives.htm [Cod CNCSIS 877]

70	Popovici N., **Biali Gabriela**, Pascariu Camelia (2005) – *Rolul unui Sistem Informaţional Geografic integrat în monitorizarea calităţii apelor de suprafaţă dintr-un bazin hidrografic.* În Analele Universităţii din Oradea, Fascicula Construcţii si Instalaţii Hidroedilitare, vol. VIII, Ed. Univ. din Oradea, ISSN 1454-4067, p.54-61, Oradea. [Cod CNCSIS 877] http://www.arhiconoradea.ro/JAES/Journal_Archives.htm
71	Popovici N., **Biali Gabriela**, Horjan O., Moraru T. (2004) – *Cuantificarea şi monitorizarea calităţii terenurilor agricole pe areale întinse cu ajutorului unui SIG.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 10, Tom L, ISSN 1223-5334, p.17-22, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
72	**Biali Gabriela**, Popovici N. (2004) – *Integrarea stratului informaţional privind folosirea terenurilor în b.h. Găiceana cu software Geo – Graph.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 10, Tom L, ISSN 1223-5334, p.67-71, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
73	**Biali Gabriela**, Popovici N. (2004) – *Facilităţi oferite de soft-ul Geo – Graph în crearea topologiei într-un proiect GIS.* În Analele Ştiinţifice Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului Internaţional de Sisteme Informaţionale Geografice, nr. 10, Tom L, ISSN 1223-5334, p.105-110, Iaşi.
74	Popovici N., **Biali Gabriela**, Prioteasa C. (2004) – *Utilizarea tehnicii GIS pentru realizarea hărţilor de risc la alunecare a terenurilor.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 10, Tom L, ISSN 1223-5334, p.129-133, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
75	**Biali Gabriela**, Popovici N. (2003) – *Facilităţi oferite de soft-ul AutoCADMap în crearea unui proiect SIG destinat amenajării teritoriului în b.h. Găiceana, jud. Bacău.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 9, Tom XLIX , ISSN 1223-5334, p.33-39, Iasi. http://www.analegeo.uaic.ro/index.php/SciGeo
76	**Biali Gabriela**, Popovici N. (2003) – *Aspecte privind realizarea corelaţiei datelor grafice cu cele de tip atribut în cadrul unui SIG destinat evaluării potenţialului erozional într-un bazin hidrografic. Studiu de caz.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 9, Tom XLIX , ISSN 1223-5334, p. 11-18, Iasi. http://www.analegeo.uaic.ro/index.php/SciGeo
77	Popovici N. **Biali Gabriela** (2003) – *Interogarea bazelor de date în cadrul soft-ului Geo – Graph pentru un SIG destinat cartării categoriilor de folosinţă şi a sistemelor antierozionale în b.h. Antoheşti, jud. Bacău.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 9, Tom XLIX , ISSN 1223-5334, p.61-66, Iasi. http://www.analegeo.uaic.ro/index.php/SciGeo
78	Popovici N., **Biali Gabriela**, Horjan O., Moraru T. (2003) – *Rolul Sistemelor Informaţionale Geografice în evaluarea imobiliară.* În Analele Şt. Ale Univ. "A.I.Cuza" Iaşi. Lucrările Simpozionului internaţional de Sisteme Informaţionale Geografice, nr. 9, Tom XLIX , ISSN 1223-5334, p.55-60, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
79	**Biali Gabriela**, Popovici N. (2002) – *Probleme specifice în crearea bazei de date grafice pentru aplicaţii SIG în studiul proceselor erozionale. Studiu de caz.* Analele Ştiinţifice ale Univ. "Al.I.Cuza" Iaşi, serie nouă Geografie – Supliment, nr. 8, Tom XLVIII, ISSN: 1223-5334, p. 39-45, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
80	Popovici N., **Biali Gabriela** (2002) – *Stabilirea dimensiunilor celulei raster pentru un SIG folosit în modelarea proceselor erozionale pe spaţii mari.* Anal. Şt. ale Univ. "Al.I.Cuza" Iaşi, Geografie, Tom XLVIII, Lucrările Simpozionului Sisteme Informaţionale Geografice nr.8 ISSN: 1223-5334, p. 13-16, Iaşi. http://www.analegeo.uaic.ro/index.php/SciGeo
81	Popovici N., **Biali Gabriela**, Sainiuc I. (2001) – *Estimarea stării de degradare a terenurilor prin procese de eroziune pe spaţii întinse cu ajutorul tehnicilor GIS. Studiu de caz.* În Analele Ştiinţifice ale Universităţii "A.I.Cuza" din Iaşi (Serie nouă), Geografie Supliment, Tom XLVII, p.26-31, http://www.analegeo.uaic.ro/index.php/SciGeo
82	**Biali Gabriela**, Popovici N. (2000) – *Monitoringul proceselor erozionale pe spaţii întinse cu ajutorul tehnicilor GIS şi analizei spaţiale.* În Analele Universităţii "Ovidius" Constanţa, Anul II, Seria Construcţii, vol.1, p. 45-48. [Cod CNCSIS 32] http://revista-constructii.univ-ovidius.ro/doc/editii/2000.pdf

83	Ambăruş D., **Biali Gabriela** (2000) – *Tendinţe în dinamica proceselor erozionale determinate de restructurarea actuală a categoriilor de folosinţă de pe versanţii unui microbazin hidrografic. Studiu de caz.* În Analele Universităţii "Ovidius" Constanţa, Anul II, Seria Construcţii, vol.1, p. 13-15. [Cod CNCSIS 32] http://revista-constructii.univ-ovidius.ro/doc/editii/2000.pdf
84	**Biali Gabriela** (1999) – *Straturi informaţionale fundamentale pentru modelarea proceselor erozionale pe bazine hidrografice în cadrul unui GIS. Studiu de caz.* În Lucrări Ştiinţifice, Anul XXXXII, vol. 1 (42 / 1999), Supliment, Serie Agronomie, Univ. Agronomică şi de Medicină Veterinară Iaşi, p.367-372. [Cod CNCSIS 477]
85	Popovici N., **Biali Gabriela** (1997) – *Implementarea Sistemelor Informaţionale Geografice în managementul irigaţiilor*. Analele Ştiinţifice ale Universităţii "A.I.Cuza" din Iaşi (Serie nouă), Supliment, Tom XLII – XLIII, p.157-162,1997. http://www.analegeo.uaic.ro/index.php/SciGeo
86	**Biali Gabriela**, Popovici N. (1997) – *Folosirea Sistemelor Informaţionale Geografice (GIS) pentru prognoza procesului de eroziune şi planificarea măsurilor de conservare a solului*. În Lucrări ştiinţifice, vol.40, Supliment, seria Agronomie, Universitatea Agronomică şi de Medicină Veterinară Iaşi, p.179-183, 1997 [Cod CNCSIS 477]
87	**Biali Gabriela**, Popovici N. (1996) – *Folosirea tehnicilor GIS în gestiunea perimetrelor irigate*. În Lucrări ştiinţifice, vol.39, p. 67-70, Supliment, seria Agronomie, Universitatea Agronomică şi de Medicină Veterinară Iaşi. [Cod CNCSIS 477]
88	Popovici N., **Biali Gabriela** (1996) – *Implicaţii erozionale ale irigării terenurilor în pantă*. În Lucrări ştiinţifice, vol.39, p.71-74, Supliment, seria Agronomie, Universitatea Agronomică şi de Medicină Veterinară Iaşi. [Cod CNCSIS 477]

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1	**Biali Gabriela**, Neculau Claudia, Van Wouwe Catherine (2010) – *The optimal choice of the technologies for soils decontamination. Case study.* În volumul Conferinţei Ştiinţifice Internaţionale „Baltic Surveying 2010", Lithuanian University of Agriculture, Kaunas, Akademija, ISBN 978-9955-896-85-2, pag.151-161, Lituania.
2	**Biali Gabriela**, Popovici N., Horjan O. (2006) – *GIS project for land and water quality monitoring. Case study*. În volumul Conferinţei Ştiinţifice Internaţionale "Baltic Surveying 06", Estonian University of Life Sciences - Tartu, ISBN 9949-426-03-0, p. 76-79, Estonia.
3	Popovici N., **Biali Gabriela** (2006) – *Result of land reform and land management in Romania*. În volumul Conferinţei Ştiinţifice Internaţionale "Baltic Surveying 06", Estonian University of Life Sciences - Tartu, ISBN 9949-426-03-0, p. 45-47, Estonia.
4	**Biali Gabriela**, Popovici N., Horjan O. (2005) – *GIS project for agricultural lands quality monitoring*. Conferinţa Ştiinţifică Internaţională, „Baltic Surveying 05" Latvia University of Agriculture, Jelgava, Proceeding, ISBN 9984-596-94-X, p. 118-127, Letonia.
5	**Biali Gabriela**, Popovici N. (2005) – *The advantages of using the GIS / LIS technology in the special utility cadastre computer aid. Example.* Conferinţa Ştiinţifică Internaţională, „Baltic Surveying 05" Latvia University of Agriculture, Jelgava, Proceeding, ISBN 9984-596-94-X, p. 128-137, Letonia.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1	**Biali Gabriela,** Cojocaru Paula, Pastia Maria-Cătălina (2024), *Considerations about implementation environmental management systems. Case study*. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 66 (70), Number 3-4 /2024, pp.43-58, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/
2	**Biali Gabriela,** Cojocaru Paula, Pastia Maria-Cătălina (2023), *Managementul ecologic şi analiza cost beneficiu a unui sistem de gestionare a deşeurilor în judeţul Suceava*. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 66 (70), Number 3-4 /2023, pp.43-58, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/
3	Biali Gabriela, Cojocaru Paula (2022), *Managementul mediului şi dezvoltare durabilă*. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 66 (70), Number 3-4 /2022, pp.43-58, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/

4	**Biali Gabriela,** Cojocaru Paula (2021), Comparative analysis of the methods for determining effluent alluvial in the catchment area. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 66 (70), Number 3-4 /2021, pp.43-58, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/
5	**Biali Gabriela,** Neculau Claudia Iulia (2019), Mixed biomechanical and biochemical models used for landfill settlement analysis. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 65 (69), Number 3-4 /2019, pp.43-58, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/
6	**Biali Gabriela** (2018) – Considerations about implementation environmental management systems. Bulletin of the Polytechnic Institute of Iaşi, Secţia Hidrotehnică. Volume 64 (68), Number 4 /2018, pp.61-72, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/
7	Neculau Claudia Iulia, **Biali Gabriela** (2017) – *Comparative study of european legislation on landfills in Romania, Belgium and France.* Bulletin of the Polytechnic Institute of Iaşi, Volume 63 (67), Number 3-4 /2017, p. 26-36, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. http://hgim.tuiasi.ro/index.php/ro/cercetare/publicatii/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica
8	Neculau Claudia Iulia, **Biali Gabriela** (2017) – *Mathematical models used for modeling compaction processes resulting from soil mechanics.* Bulletin of the Polytechnic Institute of Iaşi, Volume 63 (67), Number 1-2 /2017, p. 9-25, Editura Politehnium, ISSN 1224-3892, e-ISSN 2601 – 2359. http://hgim.tuiasi.ro/index.php/ro/cercetare/publicatii/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica
9	**Gabriela Biali** (2016) – *Certain Issues on the Correlation Between the Graphic Databases and the Attribute Type Ones in a GIS Project*. Bulletin of the Polytechnic Institute of Iaşi, Volume 62 (66), Number 1-2 /2016, p. 37-46, Editura Politehnium, ISSN 1224-3892.
10	**Gabriela Biali** (2015) – *Solutions Chosen for the Implementation of a GIS in Erosional Processes Monitoring.* Bulletin of the Polytechnic Institute of Iaşi, Tome LXI (LXV), Fasc. 3-4/ 2015, p. 33-44, Editura Politehnium, ISSN 1224-3892.
11	**Gabriela Biali** (2015) – *Methods Used in Romania for Estimating the Agricultural Lands Value Placed in Outside the Cities.* Bulletin of the Polytechnic Institute of Iaşi, Tome LXI (LXV), Fasc. 1-2/ 2015, p. 23-30, Editura Politehnium, ISSN 1224-3892.
12	**Gabriela Biali** (2014) – *Methods of Spatialization of Soil Pollution Punctual Parameters*. Bulletin of the Polytechnic Institute of Iaşi, Tome LX (LXIV), Fasc. 3-4/ 2014, p. 61-66, Editura Politehnium, ISSN 1224-3892.
13	Viorica Enache, **Gabriela Biali** (2014) – *Issues on the Soil Pollution Dynamics through Erosion Related Processes at "Dealul Bujorului" Vineyard, Galaţi County.* Bulletin of the Polytechnic Institute of Iaşi, Tome LX (LXIV), Fasc. 1-2/ 2014, p. 71-76, Editura Politehnium, ISSN 1224-3892.
14	**Biali Gabriela** (2013) – *Integration of the Informational Layer on the Use of Lands in Găiceana Hydrographic Basin, with GIS Type Software*. Bulletin of the Polytechnic Institute of Iasi, Tomul LIX (LXIII), Fasc. 3-4, pag. 27-36, Editura Politehnium, ISSN 1224-3892.
15	Claudia-Iulia Neculau, Yves Brostaux, **Gabriela Biali** (2013) – A New Capitalization of Slag Heaps, from a Sustainable Development Perspective. Bulletin of the Polytechnic Institute of Iasi, Tomul LIX (LXIII), Fasc. 3-4, pag. 49-60, Editura Politehnium, ISSN 1224-3892.
16	Neculau Claudia Iulia, **Biali Gabriela** (2013) – *Restoration of a landfill. A case study: Anton landfill in Belgium.* Bulletin of the Polytechnic Institute of Iasi, Tomul LVIX (LXIII), Fasc. 1-2, pag. 56-72, Editura Politehnium, ISSN 1224-3892.
17	**Biali Gabriela** (2009) – *Aplications of the GIS Technic in Evaluating the Erosion Process on the Slope Lands*. Buletinul Institutului Politehnic din Iaşi. Tomul LV (LIX), ISSN 1224-3892, Fasc. 4 pag. 43-52.
18	**Biali Gabriela**, Dumitru Ilioi (2009) – *Using GIS Technic in Real Cadastre Computer Aid on 54 District from Suceava.* Buletinul Institutului Politehnic din Iaşi Tomul LV (LIX), ISSN 1224-3892, Fasc. 1, pag. 27-36.
19	Ilioi Dumitru, **Biali Gabriela**, Bargan Loredana (2009) – *The Ionospheric Impact on GPS Measurements*. B.I.P.Iaşi. Tomul LV (LIX), ISSN 1224-3892, Fasc.3, pag. 19-24.
20	**Biali Gabriela**, Popovici N. (2008) – *Evoluţia fondului funciar agricol în România şi vulnerabilitatea la diferite tipuri de degradare*. În: Lucrări Ştiinţifice, Vol. 23 – Cadastru, Organizarea Teritoriului şi Ingineria Mediului, Univ. Agrară de Stat din Moldova, ISBN 978-9975-64-134-0, p.72- 76, Chişinău,.

21	**Biali Gabriela**, Popovici N. (2007) – *Methods of agricultural land evaluation in outside locality's areas, in Romania*. Transsaction of the Estonian University of Live Sciences, No. 224, „Baltic Surveying , 07", Tartu, ISSN 1406-4049, p. 156-163.
22	Farcaş Mona Elena, Popovici N., **Biali Gabriela** (2005) – *Consideraţii privind folosirea lucrărilor transversale din pământ pentru stabilizarea formaţiunilor eroziunii în adâncime de pe teritoriul agricol.* În: Lucrări Ştiinţifice, Vol. 13 - Cadastru şi Ingineria Mediului, ISBN 9975-9855-8-0, pp. 58-62, Univ. Agrară de Stat din Moldova, Chişinău.
23	Farcaş Mona Elena, Popovici N., **Biali Gabriela** – *Aspecte economice privind folosirea barajelor de pământ pentru amenajarea formaţiunilor torenţiale de pe teritoriul agricol*. În: Lucrări Ştiinţifice, Vol. 13 - Cadastru şi Ingineria Mediului, ISBN 9975-9855-8-0, pp. 160- 164, Univ. Agrară de Stat din Moldova, Chişinău, 2005.
24	Prioteasa C., Popovici N., **Biali Gabriela** (2005) – *Perimetrele de ameliorare – intervenţii punctuale în reabilitarea terenurilor agricole degradate*. În: Lucrări Ştiinţifice, Vol. 13 - Cadastru şi Ingineria Mediului, ISBN 9975-9855-8-0, pp. 62- 68, Univ. Agrară de Stat din Moldova, Chişinău.
25	**Biali Gabriela**, Popovici N. (2001) – *Some problems concerning preprocessing georeferenced data specific for a geographical information system conceived for erosional processes monitoring on wide spaces*. Bul. Instit. Polit. Iaşi, tomul XLVII(LI), fasc. 1-4 (II), "Hidrotehnica XXI", p. 201-207, Iaşi.
26	Prioteasa C., Popovici N., **Biali Gabriela** (2001) – *Etude concernant la degradation des terrains agricoles en pante, situes dans le district de Vaslui, produite par les glissements de terrain*. Bul. I.Polit.Iaşi, tomul XLVII(LI), fasc. 1-4(II), "Hidrotehnica XXI", p. 207-213, Iaşi.
27	**Biali Gabriela**, Popovici N. (1996) – *Etude de l'influence des facteurs qui interviennent dans l'ecuation universalle l'erosion du sol sur le prognostic des pretes de sol dans les condition de la Roumanie*. Buletin. I.Polit.Iaşi, secţia VII, Hidro, fasc. 1- 4, p. 77-82.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1	**Biali Gabriela**, Pavel D., Popovici N. (2007) – *L'influence de L'Extraction des Agregats Mineraux du Lit de la Riviere Moldova, sur la Dynamique du Thalweg, dans la Zone de la Ballastiere Timisesti – Cristesti.* II rd International Conference "Monitoring of Disasters and Pollution" IC.MDP.03, IVTH Section Environmental Impact Of Hydrotechnical Arrangements, p.381-388, Iaşi.
2	Neculau Claudia-Iulia, Brostaux Y., Popovici N., **Biali Gabriela** (2007) – *Une Nouvelle Valorisation des Terrils, dans une Perspective de Développement Durable.* IIIrd Int.Conf. "Monitoring of Disasters and Pollution". IC.MDP.03, IVTH Section Environmental Impact Of Hydrotechnical Arrangements, 3p.439-448, Iaşi.
3	**Biali Gabriela,** Popovici N. (2001) – *Consideraţii asupra unor programe informatice pentru un GIS utilizat în prognoza degradării solurilor pe spaţii întinse.* În volumul Simpozionului Internaţional "Îmbunătăţirile Funciare între prezent şi viitor", Ed. Politehnica, ISBN 973-8247-29-2, pp. 474-479, Timişoara.
4	**Biali Gabriela**, Popovici N. (1996) – *Consideraţii asupra unor soluţii preconizate pentru consolidarea zonei de cornişă / desprindere a alunecării Băncuţa, municipiul Fălticeni.* În Lucrările celei de a VIII-a Conferinţă Naţională de Geotehnică şi Fundaţii, p.739-744, Iaşi.
5	**Biali Gabriela**, Popovici N. (1995) – *Soluţii pentru stabilizarea terenului din zona de desprindere a alunecării Băncuţa, municipiul Fălticeni.* În Lucrările Sesiunii jubiliare de comunicări ştiinţifice, Universitatea "Politehnica" din Timişoara, vol. 3, p.166-171.
6	Popovici N., **Biali Gabriela** (1995) – *Impactul amenajărilor antierozionale asupra mediului*. În Lucrările Sesiunii jubiliare de comunicări ştiinţifice, Universitatea "Politehnica" din Timişoara, vol. 4, p. 262-268.

J. Invenţii.

K. Contracte de cercetare/granturi.

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională - Director

1: CEEX nr. 44 / 2005
Biali Gabriela – **Responsabil proiect** în Contract de Cercetare prin Excelenta cu UASMV din Iaşi.
„Ameliorarea, conservarea şi valorificarea solurilor degradate prin intervenţia antropică în agroecosistemele din zonele colinare, pentru creşterea calităţii vieţii şi protecţia mediului".
Contract pe 3 ani: 2005 – 2008; 300 mil. lei (30000 RON)

2: Grant tip AT, Biali Gabriela – **Director proiect**
"Evaluarea calităţii terenurilor agricole folosind tehnica Sistemelor Informaţionale Geografice"
Contract nr. 27637 / 2005 , Tema nr. 62, Cod CNCSIS 60; 2005: 80 mil. lei
Contract nr. 2741 / 2006, Tema nr. 83, Cod CNCSIS 60; 2006: 120 mil. lei

3: Grant tip AT, Biali Gabriela – **Director proiect**
„Monitorizarea proceselor erozionale pe spaţii întinse folosind tehnica Sistemelor Informaţionale Geografice (GIS)"
Contract nr. 33557 / 2003, Tema nr. 52, Cod CNCSIS 319; 2003: 36 mil. lei
Contract nr. 33371 / 2004, Tema nr. 77, Cod CNCSIS 319; 2004: 90 mil. lei

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională - Membru

4: Grant tip **PN II, PNCDI2 ID_1887**, 2009 - 2011;
Director contract: prof.dr.ing. ***Stătescu Florian***
„Tehnici inovative de monitorizare a dinamicii caracteristicilor hidraulice ale solurilor, generate de schimbarile climatice", CNCSIS - 985000 RON

5: Grant tip **PN II**, **PNCDI2 31–047** / 2007 - 2010 ;
Director contract: conf. dr.ing. ***Bofu Constantin***, CNMP - 200000 LEI
„Crearea unei baze de date georeferenţiate în podişul Sucevei prin monitorizarea pe imagini digitale a terenurilor degradate, ca suport decizional în reabilitarea ecologică"

6: Contract **CEEX nr. 754 / 2006 ;** Cod CEEX-M1-C2-1914 / 2006 -2008.
Director contract : prof.dr.ing. ***Popescu Ştefan***; 1098350 RON
"Tehnologii avansate pentru monitorizarea şi managementul exploatărilor de resurse naturale cu grad ridicat de vulnerabilitate la dezastre naturale" (TAMMER).

7: Grant **CEEX nr. 76 M1 – II.03/2B/31.07.2006 - 2008**
Director contract : Conf.dr.ing. ***Dan Prepeliţă***; 200000 RON
„*Studii, cercetări şi analize privind implementarea fondului naţional de date digitale al îmbunătăţirilor funciare (FNDDIF) pentru zona judeţului Iaşi*", coordonator ISPIF –INCDIF Bucureşti.

8: Grant tip **A**, 2005-2006.
Director contract prof.dr.ing. ***Popovici Nicolae***
Contract nr. 27637 / 2005, ***Tema nr. 46***, Cod CNCSIS 597, 2005; 140 mil. lei
Contract nr. 2741 / 2006, ***Tema nr. 65***, Cod CNCSIS 597; 100 mil. lei
"Implementarea tehnicii Sistemelor Informaţionale Geografice in monitorizarea calităţii apelor de suprafaţă dintr-un bazin hidrografic".

9: Grant tip **A**; Contract nr. 35259 / 2001 cu CNCSIS;
Director contract : prof.dr.ing. ***Stătescu Florian***
"Cercetări privind impactul depunerii pulberilor rezultate de la fabricarea materialelor de construcţii asupra echilibrului ecologic al solului".

: Grant tip **A**; Contract nr. 34280 / 1999 cu CNCSIS ;
Director contract : prof.dr.ing. ***Stătescu Florian***
"Studiul condiţiilor de dispersie a unor substanţe chimice în sol".

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
Septembrie, 2026

Prof.univ.habil.dr.ing. Gabriela BIALI

Lista de lucrări în domeniul de doctorat Ingineria Mediului

Numele şi prenumele: **Conf.dr.habil.ing. Gabriela Soreanu**

A. Teza de doctorat/ de abilitare (unde este cazul).

1. Teza de abilitare: Applied biotechnologies for polluted air and gaseous streams treatment, 2025, Universitatea Tehnica "Gheorghe Asachi" din Iasi, domeniul ingineria mediului.
2. Teza de doctorat: Contribuţii la studiul şi optimizarea proceselor de schimb ionic aplicate în epurarea recuperativă a apelor de spălare din galvanotehnică, 2000, Universitatea Tehnica "Gheorghe Asachi" din Iasi, domeniul inginerie chimica, conducator de doctorat: Prof.dr.ing. Matei Macoveanu.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. **Soreanu G.**, Dumont E. (eds.). From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. **Elsevier**, 524p, 2020, ISBN 9780128190647
2. Cretescu I., Borodaev R., Lutic D., **Soreanu G.**, Duca Gh., Ratnaweera H. (2023). REDOX Measurements: Inexpensive and Fast Tool for Preliminary Ecotoxicity Assessment and an Early Warning System for Water Pollution, Chapter 8 in (pp. 132-148): Environmental and Technological Aspects of Redox Processes, Eds: Gheorghe Duca, Ashok Vaseashta). **IGI Global**, Hershey, Pennsylvania, USA, 16p, ISBN 9798369305126
3. Cretescu I., Kovacs Z., Lazar L., Burada A., Sbarcea M., Teodorof L., Padure D., **Soreanu G.** (2021). Chapter: Danube Delta: Water Management on the Sulina Channel in the Frame of Environmental Sustainability. IntechOpen, London, UK, 31p, ISBN 978-1-83880-165-6
4. **Soreanu G.**, Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. A model microalga for addressing air treatment in spacecrafts. Chapter 19, in: From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Eds. Soreanu G. and Dumont E., **Elsevier**, 21p, 2020, ISBN 9780128190647
5. Cretescu I., Isopescu D.N., Lutic D., **Soreanu G.** Indoor Air Pollutants and the Future Perspectives for Living Space Design. Chapter 5, In: Indoor Environment and Health. Edited by Korhan O. **InTech,** London, UK, 11p, 2019, ISBN 978-1-78984-374-3
6. **Soreanu G.** Biotechnologies for improving indoor air quality, Chapter 12, in: Start-up Creation: The Smart Eco-efficient Built Environment. Edited by F. Pacheco-Torgal, E. Rasmussen, C.G. Granqvist, V. Ivanov, A. Kaklauskas and S. Makonin. **Elsevier**, Woodhead Publishing, UK, 28p, 2016, ISBN 978-0-08-100546-0

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. **Soreanu G.** Prevenirea Poluarii si Protectia Mediului.Editura Performantica, Iasi, 270p, 2014, ISBN 978-606-685-200-5
2. Cretescu I., **Soreanu G.** Optimizarea Proceselor in Inginerie Chimica si Protectia Mediului. Editura Ecozone, Iasi, 202p, 2013, ISBN: 978-973-7645-96-8

3. Cretescu I., **Soreanu G.** Tehnologii de Achizitie, Monitorizare si Diagnoza a Calitatii Factorilor de Mediu. Editura Ecozone, Iasi, 227p, 2013, ISBN 978-973-7645-92-0
4. Cretescu I., **Soreanu G.** Optimizarea proceselor: aplicatii in inginerie chimica si protectia mediului. Editura Ecozone, Iasi, 215p, 2020, ISBN 978-606-8625-22-5
5. Soreanu G. Prevenirea poluarii si protectia mediului: de la concept la aplicatii. Editura Ecozone, Iasi, 110p, 2020, ISBN 978-606-8625-23-2
6. Soreanu G. Prevenirea poluarii si protectia mediului: aplicatii practice si de laborator. Editura Ecozone, Iasi, 120p, 2020, ISBN 978-606-8625-24-9
C7. Lungu I., Giurma I., De Belie N., Godbout S., Vosniakos F., Cretescu I., **Soreanu G.** (eds.). Cement Based Materials and Environmental Approaches for a Sustainable Agriculture. Conference Proceedings. Editura Performantica, Iasi, 172p, 2015 ISBN 978-606-685-312-5
C8. Macoveanu M., Balba N., Balba D., Gavrilescu M., **Soreanu G.** Procese de Schimb Ionic in Protectia Mediului. Editura MatrixRom Bucuresti, 462p, 2002, ISBN 973-685-396-9

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articole publicate în reviste cotate ISI, cu factor de impact si WOS
1. Loredana-Vasilica Postolache, **Gabriela Soreanu**, Igor Cretescu, Nita Tudorachi, Ion Anghel, Dana Maria Preda, Daniela Rusu, Mirela-Fernanda Zaltariov, Jose Luis Valverde, Gabriela Lisa. *Alternative energy sources from wastes and microalgae Chlorella vulgaris used for the capture of atmospheric CO2 in the production of cement.* ***Materials Today Sustainability*** 31, art 101175, 2025 **IF=7.9**
2. Ramona Elena Tataru-Farmus, María Harja, Lucia Tonucci, Liliana Lazar, **Gabriela Soreanu**, Igor Cretescu. *Green CO_2 Capture from Flue Gas Using Potassium Carbonate Solutions Promoted with Amino Acid Salts.* ***Clean Technologies*** 7, 4: 1-18, 2025 **IF=4.7**
3. Gabriela Lisa, Igor Cretescu, Catalin Tanase, Constantin Mardari, Nita Tudorachi, Andra-Cristina Enache, Petrisor Samoila, **Gabriela Soreanu*** . *Assessment of Hedera helix response in polluted environment through cross-advanced investigation techniques.* ***Journal of Thermal Analysis and Calorimetry*** 150: 9181–9194, 2025 **IF=3.1**
4. Soreanu G.*, Tanase C., Mardari C., Cretescu I. *Assessment of air purification biosystems for environmental applications.* ***Process Safety and Environmental Protection***. 195, 106742, 2025 **IF=6.9** **(zona rosie – aut princip)**

5. Lisa G., Cretescu I., Enache A.C., Tanase C., Samoila P., Mardari C., **Soreanu G.***. *Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy*. ***Renewable and Sustainable Energy Reviews*** 207, 114890, 2025
IF=16.3
(zona rosie – aut princip (coresp))

6. Postolache L.V., **Soreanu G.**, Cretescu I., Lisa G. *Analysis of the thermal behaviour of various wastes co-processed in cement plants.* ***Environmental Engineering and Management Journal*** 24(1), 211-221, 2025
IF=0.9

7. Nouj N., Majbar Z., Abelouah M.R., Hamou A.B., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., **Soreanu G.**, Cretescu I. *Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation.* ***Journal of Environmental Chemical Engineering*** 12, 112318, 2024
IF=7.4

8. Soreanu G.*, Tanase C.,Mardari C., Gorgan D.L.,Cretescu I. *Physiological Investigations of the Plants Involved in Air Biofiltration: Study Case.* ***Sustainability*** 16, 1529, 2024
IF=3.3

9. Diaconu M., **Soreanu G.***, Balan C.D., Buciscanu I.I., Maier V., Cretescu I. *Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation.* ***Water*** 15, 3962: 1-18, 2023
IF=3

10. G. Lisa, I. Anghel, D.M. Preda, C. Lisa, I. Cretescu, I.I. Buciscanu, M. Diaconu, **G. Soreanu***. *Moving towards valorization of biowastes issued from biotrickling filtration of contaminated gaseous streams: A thermochemical analysis-based perspective.* ***Sustainability*** 14(17), 10737: 1-11, 2022
IF=3.3

11. N. Nouj, N. Hafid, N. El Alem, I.I. Buciscanu, S.S. Maier, P. Samoila, **G. Soreanu**, I. Cretescu, C.D. Stan. *Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment.* ***Materials*** 15(8), 2803: 1-27, 2022
IF=3.1

12. Diaconu M., Volf I., Cretescu I., Juzsakova T., **Soreanu G.*** *Carbon biocapture in the frame of climate change and air quality issues: a preliminary microbiota screening.* ***Environmental Engineering and Management Journal*** 21(2): 333-341, 2022
IF=0.9

13. Parascanu M.M., Kaltschmitt M., Rödl A., **Soreanu G.**, Sánchez-Silva L. *Life cycle assessment of electricity generation from combustion and gasification of biomass in Mexico.* ***Sustainable Production and Consumption*** 27: 72–85, 2021
IF=10.9

14. Dinca P., Butoi B., Lungu M., Porosnicu C., Jepu I., Staicu C., Lungu C.P., Niculescu A., Burducea I., Trusca O., Diaconu M., Cretescu I., **Soreanu G.** *Antibacterial efficiency of stainless-steel grids coated with Cu-Ag by thermionic vacuum arc method.* ***Coatings*** 10, 322, 2020
IF=2.9

15. Diaconu M., Volf I., Cretescu I., **Soreanu G.*** *Study of different liquid media influence on Arthrospira platensis microalgae cultivation for environmental applications.* ***Environmental Engineering and Management Journal*** 19(2): 353-358, 2020.
IF=0.9

16. Stan C.S., **Soreanu G.***, Popa M., Horlescu P., Lupascu T., Cretescu I. *A new approach to obtain aerogels for gas safety applications.* ***Environ. Eng. and Manag. Journal*** 18(8): 1721-1726, 2019.
IF=0.9

17. Ignat M., Samoila P., Cojocaru C., **Soreanu G.**, Cretescu I., Harabagiu V. *Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification.* ***Applied Surface Science*** 487: 1189-1197, 2019
IF=6.3

18. Parascanu M.M., Puig-Gamero M., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Comparison of three Mexican biomasses valorization through combustion and gasification: Environmental and economic analysis.* ***Energy*** 189, 15 December 2019, 116095, 2019
IF= 9

19. Parascanu M.M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Mexican biomasses valorization through pyrolysis process: Environmental and costs analysis.* ***Waste Management*** 95: 171-181, 2019
IF=7.1

20. Parascanu M., Puig Gamero M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Life cycle assessment of olive pomace valorisation through pyrolysis.* ***Renewable Energy*** 122: 589-601, 2018
IF=9

21. Parascanu M.M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva, L. *Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production.* ***Journal of Cleaner Production*** 186: 771-781, 2018
IF=9.8

22. **Soreanu G.**, Tomaszewicz M., Fernandez-Lopez M., Valverde J.L., Zuwata J., Sanchez-Silva L. *CO_2 gasification process performance for energetic valorization of microalgae.* ***Energy*** 119: 37-43, 2017
IF= 9
(zona rosie – aut princip)

23. Parascanu M.M., Sandoval-Salas F., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes.* ***Renewable and Sustainable Energy Reviews*** 71: 509-522, 2017
IF=16.3

24. López-González D., Parascanu M.M., Fernandez-Lopez M., Puig-Gamero M., **Soreanu G.**, Avalos-Ramírez A., Valverde J.L., Sanchez-Silva L. *Effect of different concentrations of O_2 under inert and CO_2 atmospheres on the swine manure combustion process.* ***Fuel*** 195: 23-32, 2017
IF=6.7

25. Cretescu I., Lupascu T., Buciscanu I., Balau-Mindru T., **Soreanu G.** *Low-cost sorbents for the removal of acid dyes from aqueous solutions.* ***Process Safety and Environmental Protection*** 108: 57-66, 2017
IF=6.9

26. Raschitor A., **Soreanu G.**, Fernandez-Marchante C.M., Lobato J., Cañizares P., Cretescu I., Rodrigo M.A. *Bioelectro-Claus processes using MFC technology: Influence of co-substrate.* ***Bioresource Technology*** 189: 94-98, 2015
IF=9.7

27. Cretescu I., **Soreanu G.**, Harja M. *A low-cost sorbent for removal of copper ions from wastewaters based on sawdust/fly ash mixture.* ***International Journal of Environmental Science and Technology*** 12(6): 1799-1810, 2015
IF=3

28. Fernandez-Lopez M., Parascanu M.M., López-González D., **Soreanu G**.*, Avalos-Ramírez A., Sanchez P., Valverde J.L., Sanchez-Silva L. *Catalytic and non-catalytic pyrolysis of biologically treated manure.* ***Environmental Engineering and Management Journal*** 14(2): 349-355, 2015
IF=0.9

29. Tucaliuc O.M., Cretescu I., Nemtoi Gh., Breaban I.G., **Soreanu G.**, Iancu O.G. *Monitoring of mercury from air and urban dust in the industrial area of Iasi municipality.* ***Environmental Engineering and Management Journal*** 13(8): 2051-2061, 2014
IF=0.9

30. **Soreanu G.***, Darlington A., Dixon M. *Botanical biofiltration of indoor gaseous pollutants – A mini-review.* ***Chemical Engineering Journal*** 229: 585-594, 2013 ***(article is feature on the cover of the issue)***
IF = 13.4
(zona rosie – aut princip)

31. Caraiman (Cojocaru) P., Pohontu C., **Soreanu G.**, Macoveanu M., Cretescu I. *Optimization process of cadmium and zinc removal from soil by phytoremediation using Brassica napus and Triticales sp.* ***Environmental Engineering and Management Journal*** 11(2): 271-278, 2012
IF=0.9

32. **Soreanu G.**, Falletta P., Béland M., Edmonson K., Ventresca B., Seto P. *Empirical modelling and dual-performance optimisation of a hydrogen sulphide removal process for biogas treatment*. ***Bioresource Technology*** 101(23): 9387-9390, 2010
IF=9.7
(zona rosie – aut princip)

33. **Soreanu G.**, Lishman L., Dunlop S., Behmann H., Seto P. *An assessment of oxygen transfer efficiency in a gas permeable hollow fibre membrane biological reactor*. ***Water Science and Technology*** 61(5): 1165–1171, 2010
IF=2.5

34. **Soreanu G.***, Falletta P., Béland M., Edmonson K., Seto P. *Abiotic and biotic mitigation of volatile methylsiloxanes in anaerobic gas-phase biomatrices*. ***Environmental Engineering and Management Journal*** 8(5): 1235-1240, 2009
IF=0.9

35. **Soreanu G.**, Béland M., Falletta P., Ventresca B., Seto P. *Evaluation of different packing media for anoxic H_2S control in biogas.* ***Environmental Technology*** 30 (12): 1249 – 1259, 2009
IF=2.2

36. **Soreanu G.***, Béland M., Falletta P., Edmonson K., Seto P. *Investigation on the use of nitrified wastewater for the steady-state operation of a biotrickling filter designed for the removal of hydrogen sulphide in biogas.* ***Journal of Environmental Engineering and Science*** 7(5): 543-552, 2008

IF=1

37. **Soreanu G.**, Falletta P., Béland M., Edmonson K., Seto P. *Study on the performance of an anoxic biotrickling filter for the removal of hydrogen sulphide from biogas.* ***Water Quality Research Journal /former Water Quality Research Journal of Canada*** 43(2/3): 211-218/93-102, 2008

IF=2.4

38. **Soreanu G.***, Béland M., Falletta P., Edmonson K., Seto P. *Laboratory pilot scale study for H2S removal from biogas in an anoxic biotrickling filter.* ***Water Science and Technology*** 57(2): 201-207, 2008

IF=2.5

Articole publicate în reviste indexate in baze de date internaţionale (BDI)

39. Loredana Vasilica Postolache, **Gabriela Soreanu**, Igor Cretescu, Gabriela Lisa. Modeling and Optimization of Thermal Stability and Heat Release Capacity of Waste Mixtures with Biomass Residues (Chlorella vulgaris). Advanced Chemical Process Analysis 1(1): 6. doi: 10.53941/acpa.2025.100006, 2025

40. **Soreanu G.***, Cretescu I., Diaconu M., Cojocaru C., Ignat M., Samoila P., Harabagiu V. *Investigation of a biosystem based on Arthrospira platensis for air revitalisation in spacecrafts: Performance evaluation through response surface methodology.* ***Chemosphere*** 264, 128465, 2021. last **IF=8.1** (temporarly suspended)

41. **Soreanu G.*** *Insights into siloxane removal from biogas in biotrickling filters via process mapping-based analysis.* ***Chemosphere*** 146: 539-546, 2016. last **IF=8.1** (temporarly suspended)

42. **Soreanu G.***, Cretescu I., Cojocaru C., Macoveanu M., Petruc M. *Some pollution aspects and waste management in the sustainable eco-agroturism concept.* ***Journal of Environmental Protection and Ecology*** 7(2): 369-377, 2006.

43. Cojocaru C., Cretescu I., **Soreanu G.**, Popa C., Macoveanu M. *Applying of peat as floating sorbent in order to remove diesel oil spill from water surface.* ***Journal of Environmental Protection and Ecology*** 7(2): 397-406, 2006.

44. **Soreanu G.**, Cretescu I., Petruc M., Macoveanu M. *Studiu comparativ privind epurarea recuperativã a ionilor de nichel din apele de spalare galvanice utilizand diferite tipuri de schimbatori de ioni.* ***Revista de Chimie*** 52(7-8): 426-430, 2001.

45. Cretescu I., **Soreanu G.**, Macoveanu M., Chirica M. *Influenta unor factori asupra recuperarii nichelului din apele uzate galvanice utilizand schimbatorul de ioni Purolite C150.* ***Revista de Chimie*** 52(6): 341-345, 2001.

46. **Soreanu G.***, Cretescu I., Macoveanu M., Chirica M. *Studiul schimbatorului de ioni Purolite C150 utilizat in diverse variante tehnologice la epurarea recuperativã a apelor de spalare de la zincare.* ***Revista de Chimie*** 51(10): 807-810, 2000.

47. Parascanu M.M., Sanchez N., Sandoval-Salas F., Carreto C.M., **Soreanu G.**, Sanchez-Silva L. (2021). Environmental and economic analysis of bioethanol production from sugarcane molasses and agave juice. ***Environmental Science and Pollution Research*** 28(45): 64374–64393.

48. Balaes T., Tanase C., **Soreanu G.***, Mardari C., Cretescu I. (2023). Soil Fungi Resistant To Organic Pollutants As A Potential Solution For Air Biofiltration. *Ecology & Safety* 17: 16-23

49. Lazar L., Lisa G., **Soreanu G.**, Harja M. (2023). Conversion of plaster molds wastes into the new inorganic products by thermal dehydration. *Ecology & Safety* 17: 24-34

50. G. Soreanu*, C. Mardari, C. Tanase, I. Volf, L. Lazar, I. Cretescu (2022). Carbon dioxide reduction potential of some plants involved in the removal of air pollutant mixtures by biofiltration. *Ecology & Safety* 16: 27-33

51. G. Soreanu*, C. Mardari, C. Tanase, I. Volf, V. Maier, I. Cretescu (2022). Preliminary assessment of air purification by aerial plant based biofilter. *Ecology & Safety* 16: 34-41

52. Cretescu I., R. Borodaev, D. Lutic, **G. Soreanu**, L. Lazar, J. Gitlestad, E. Zubcov (2022). Redox state assessment for the Danube water in the Sulina channel using a mobile water quality monitoring station. *Annals of "Dunarea De Jos" University of Galati* – Fascicle II, year XIV (XLV), No. 2. 122-125. https://doi.org/10.35219/ann-ugal-math-phys-mec.2022.2.13

53. Soreanu G.*, Diaconu M., Maier S.S., Volf I., Cretescu I. (2021). Enhancing the environmental performance of biotrickling filters treating volatile organic compounds in air. *IOP Conf. Series: Earth and Environmental Science* 906 (2021) 012124: 7 p. doi:10.1088/1755-1315/906/1/012124.

54. Soreanu G.*, Diaconu M., Maier S.S., Volf I., Cretescu I. (2021). Moving forward sustainable solutions for VOCs biotrickling filtration through co-immobilised microorganisms. *Romanian Journal of Ecology & Environmental Chemistry* 3(2): 54-60. doi.org/10.21698/rjeec.2021.207

55. Mardari C., Tanase C., Volf I., Cretescu I., **Soreanu G.*** (2021). Testing the bioremediation potential for certain atmospheric pollutants of some plant species from Romania – Preliminary results. *Ecology & Safety* 15: 12-20

56. Igor Cretescu, Sorina Calin, Zsofia Kovacs, Elena Niculina Dragoi, Dan Padure, Liliana Lazar, **Gabriela Soreanu** (2021). Actual Aspects Concerning the Water Quality Monitoring on the Sulina Channel from the Danube Delta – Romania. *Ecology & Safety* 15: 21-36.

57. **Soreanu G.***, Béland M., Falletta P., Edmonson K., Svoboda L., Al-Jamal M., Seto P. Approaches concerning siloxane removal from biogas - A review. *Canadian Biosystems Engineering* 53: 8.1-8.18, 2011

58. Dastous P.A., Nikiema J., **Soreanu G.**, Bibeau L., Heitz M. *Elimination of methanol and ethanol by biofiltration: An experimental study.* ***Water Air and Soil Pollution – Focus*** 8(3): 275-286, 2008. (archived journal)

59. Syed M., **Soreanu G.***, Falletta P., Béland M. Removal of hydrogen sulfide from gas streams using biological processes - A review. *Canadian Biosystems Engineering* 48: 2.1 - 2.14, 2006

60. **Soreanu G.***, Bekal-Si Ali S., Ménard J., Comeau J.-F., Dastous P.-A., Heitz M. Obtinerea 2,3 butandiolului prin biovalorificarea deseurilor lactate. *Mediul Ambiant, Scientific Journal of Information and Ecological Culture* 3 (21): 9-15, 2005

61. Lipsa C., Cojocaru C., Tura V., Cretescu I., **Soreanu G.**, Macoveanu M. Modelling and optimisation of nitrate removal from the wastewater by ionic exchange in electrical field. *Bull. Inst. Politech. Iasi, Section of Mathematics, Theoretical Mechanics, Physics* 51(3-4): 139-149, 2005

62. Lipsa C., Condurache D., Cretescu I., Secula M., **Soreanu G.**, Macoveanu M. An electrical field influence on the functionality of Purolite A830 & A500 anionic resins in Water Systems. *Bull. Inst. Politech. Iasi, Section of Mathematics, Theoretical Mechanics, Physics* 51(1-2): 137-145, 2005

63. **Soreanu G.***, Gagnon P.L., Grégoire C., Marcos B., Heitz M. Ethanol production by bioengineering. *Environmental Engineering and Management Journal* 3(3): 363-372, 2004

64. Popovici E., Cretescu I., Botezatu E., **Soreanu G.**, Hanu A.M., Hristodor C., Maftei D. Evaluation of natural ion exchangers for the removal of radioactive isotopes from liquid effluents. *Environmental Engineering and Management Journal* 1(4): 577-588, 2002

65. Cretescu I., **Soreanu G.**, Petruc M., Carja G., Macoveanu M. *The recovery of the zinc and nickel ions by ionic exchange from electroplating waste waters,* ***Studia Universitatis Babes-Bolyai Chemia*** XLV, 1(2), 2001

66. Petruc M., **Soreanu G.**, Cretescu I., Macoveanu M. Nickel recovery from washing galvanic waters, by using ionic exchange. *Metalurgia* 8: 24-31, 2001

67. Cretescu I., Sutiman D., **Soreanu G.**, Macoveanu M. Zinc removal by ion exchange from waste waters. *Journal of Balkan Ecology* 3(4): 96-101, 2000

68. **Soreanu G.**, Macoveanu M. Epurarea recuperativa a apelor uzate galvanice cu continut de ioni metalici. *Metalurgia* 12: 35-47, 1999

G. Lucrări ştiinţifice publicate în reviste din străinătate.
H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1.G. Soreanu*, I. Cretescu, D. Lutic, M. Harja, S.S. Maier (2022). Study of microalgae influence on carbon capture from gaseous streams within the biotrickling filtration process. In: Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 02 - 11 July, 2022, Albena, Bulgaria, Vol22, Issue 4: 391-398. 10.5593/sgem2022/4.1/s19.50

2.G. Soreanu*, I. Cretescu, E.N. Dragoi, D. Lutic, F. Leon (2022). Towards low-carbon emission biotrickling filtration of volatile organic compounds from air: an artificial neural network approach. In: Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 02 - 11 July, 2022, Albena, Bulgaria, Vol22, Issue 4: 429-436. 10.5593/sgem2022/4.1/s19.55

3. Soreanu G.*, Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. Multi-function biosystem based on *Arthrospira Platensis* for space applications. In: Conference Proceedings Book of the 22nd International Symposium "The Environment and the Industry" (ISI Conference), SIMI 2019, Bucharest, Romania, 26-27 september 2019, ISSN-L: 1843-5831, ECOIND: 77-83, 2019

4. Soreanu G.*, Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. Monitoring of CO_2 uptake by microalgae in indoor environment. In proceedings of GLOREP 2018-Global and Regional in Environmental Protection Conference, 15-17 November, Timisoara, Romania:255-259, 2018

5. **Soreanu G.**, Stricker A., Lishman L.A., Boltz J.P. Quantifying the impact of mass transfer in nitrifying bioreactors that incorporate free moving plastic biofilm carrier systems. In WEF's On-line Proceedings of the WEFTEC 2012, 85th Annual Technical Exhibition & Conference, September 29 – October 3, 2012, New Orleans, Louisiana USA: 5486-5493, 2012

6. Barbuta M., Harja M., Cretescu I., **Soreanu G.*** Influence of waste content on properties of

polymer concrete. In Proceeding of 7th International Symposium on Cement Based Materials for a Sustainable Agriculture, Quebec, QC, Canada, 18-21 September 2011: 46-55, 2011
7. **Soreanu G.***, Falletta P., Husain H., Seto P. Process optimization of H_2S removal from biogas in an anoxic biotrickling filter. In Proceeding of IWA World Water Congress and Exhibition, Montreal,QC,Canada,19–24 September,Paper # IWA-2653, 2010
8. **Soreanu G**.*, Al-Jamal M., Béland M. *Biogas Treatment using an Anaerobic Biosystem*. In Proceedings of the International Symposium "3rd Canadian Organic Residuals Recycling Conference Calgary", Alberta, Canada, June 1-4: 502-513, 2005
9. Dastous P.A., **Soreanu G**., Nikiema J., Heitz M. *Biofiltration of three alcohols on a mature bed compost*. In 2005 A&WMA Annual Conference Proceedings CD-ROM, ("A&WMA's 98th Annual Conference & Exhibition", Minneapolis, Minnesota, June 21-24, 2005), Paper #1038. Pittsburgh, PA: Air & Water Management Association, 2005
10. **Soreanu G.**, Macoveanu M. Aspecte privind aplicarea schimbului ionic la recuperarea zincului din apele uzate galvanice. In vol. simpozion "Mediul si Industria", Ecoind Bucuresti, Romania, 23-25 sept: 45-51, 1999

J. Invenţii.

1. Ignat M., Samoila P., Bele A., Cojocaru C., Cretescu I., **Soreanu G.**, Harabagiu V. (2024). Procedeu de obtinere a silicei poroase cu aplicatii in dezumidificarea fluxurilor gazoase. Brevet RO, 134885 (A2), in baza Hotararii OSIM din 30.07.2024.
2.Cretescu I., Arghirescu M., Gorecki G.P., **Soreanu G.**, Lazar L., Harja M. (2024). Izoleta de pat cu sistema de purificare a aerului. Brevet RO, nr. 134366 B1/30.09.2024
3.Cretescu I., Dragoi E.N., **Soreanu G.** (2022). Sistem de monitorizare a calitatii apei de suprafata amplasat pe o nava de pasageri. Brevet RO, nr. 135089 B1/2022
4.Cretescu I., Teodosiu C., Zaleschi L., **Soreanu G.**, Antonescu I. (2019). Reactor pentru epurarea electrochimica a apelor uzate industriale. Brevet RO, nr. 129934/2019
B5. Cretescu I., **Soreanu G.**, Petruc M., Macoveanu (2008). Instalatie si procedeu de schimb ionic in camp magnetic. Brevet RO, nr. 121985/2008
B6. Cretescu I., Suditu G., Macoveanu M., **Soreanu G.** (2004). Electroreactor destinat epurarii apelor uzate incarcate cu substante organice. Brevet RO, nr. 119283/2004

K. Contracte de cercetare.

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională
1. Upcycling of wastes and by-products to green chemicals and energy (UP2Green), awarded in the internal research grants competition of INGENIUM Project, financed by the Erasmus-Edu-2022-Eur-Univ Project, nr. 101090042, 2024-2025 (***membru***)
2. Project ERANET 107/01.05.2019, 2019-2022, title: Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources/Water Harmony (***membru***)
Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale
3. Proiect 739 / 25.07.2025, Program PR/NE/2024/P1/RSO1.1_RSO1.3/1 / Proiecte de CDI și investiții în IMM, 2025-2027, titlu: Instalație inovatoare de obținere a hidrogenului verde prin gazeificarea Biomasei, cu sistem de filtrare avansat "Green-Gas-H2" (***membru***)

4. Project PCE 39/2021, Program PN-III-P4/ Fundamental and frontier research (UEFISCDI), 2021-2023, title: Biofiltration of air from urban automotive underground spaces / BIO-AUTO (***director***)
5. Proiect MC 5/2020, Programul PN-III-P1-1.1-MC / Dezvoltarea sistemului national de cercetare-dezvoltare, Proiecte de mobilitate pentru cercetatori (UEFISCDI), 2020 (***director***)
6. Proiect 301PED/2020, Programul PN-III-P2-2.1/ Competitivitate prin cercetare, dezvoltare și inovare (UEFISCDI), 2020-2022, titlu: Biotrickling filtration upgrade in the context of atmospheric protection and climate change / BIO-UP (***director)***
7.Contract de cercetare 19592/2019 ”Noi materiale pe baza de Fibra de sticla si valorificarea avansata a deseurilor din cadrul SC BICO INDUSTRIES SRL”, 2019-2022 (***membru***)
8.Contract de cercetare 8230/2018, Dezvoltarea unui sistem pentru controlul compozitiei specifice fluidelor de spalare din industria auto, 2019-2020 (***membru***)
9. Proiect CDI-STAR 157/2017, Programul CDI pentru Tehnologie Spatiala si Cercetare Avansata STAR (Romanian Space Agency-ROSA), 2017-2019, titlu: Sustainable biochemical method for air revitalization in spacecrafts/ BIO-MARS (***director)***
10. Proiect bilateral de cercetare Romania-Norvegia 18 BIL/2017, Program RO14/EEA, 2017 (5 luni), titlu: Bioconcepts in environmental protection and management: promoter of bilateral relationship between Romanian and Norwegian research entities (***director***)
11. Grant 305P/23.02.2016, Universitatea Tehnica „Gheorghe Asachi” din Iasi, finantator Veolia, titlu: Masurarea unor parametri fizici si chimici la emisie pentru un lot de centrale termice de apartament aflate in exploatare in diferite locatii din zona urbana a municipiului Iasi (***director***)
12. Proiect Parteneriate PN-II-PT-PCCA-2013-4-2165, Romania, 2014-2016, titlu: Modul ecologic independent energetic pentru ventilare si iluminare cu proprietati antibacteriene utilizat pentru acoperirea peretilor exteriori / VALMGREEN (***membru***)
13. Proiect Inovare PN-II-IN-CI-2012-1-0094, Romania, titlu: Epurarea lichidelor industriale de racire a masinilor unelte (***membru***)
Alte lucrări de proiectare-cercetare-dezvoltare
14. Program of international competition, University of Castilla La Mancha, Spain, research: Energetic valorization of biomass, 2017 (1 month) (***principal investigator***)
15. Program of international competition, University of Castilla La Mancha, Spain, research: Energetic valorization of biomass, 2016 (1 month) (***principal investigator***)
16. Program of international competition, University of Castilla La Mancha, Spain, co-founded by European Funds for Regional Development, research: Energetic valorization of biomass, 2015 (1 month) (***principal investigator/profesor invitat***)
17. Proiect Operational POS CCE SMIS-CSNR 38629, 2012-2013, titlu: Sistem informatic de management al riscului individual asupra sănătăţii populaţiei bazat pe evaluarea şi controlul poluărilor industriale datorate emisiilor de micropoluanţi de la instalaţiile de ardere din industria energetică şi cea de prelucrare /ECORISK (***membru***)
18. Program of NSERC international competition, Environment Canada, research: Biofiltration of hydrogen sulphide from biogas, 2004-2007 (***postdoc-research responsible***)
19. Project Université de Sherbrooke, Canada, research: Biofiltration of volatile organic compounds from air, 2002-2003 (***postdoc-research responsible***)

L. Premii, distincţii.

4 medalii de aur si 2 de argint pentru brevetul de inventie ”Device and method for ionic exchange in magnetic field”, respectiv 1 medalie de aur pentru brevetul de inventie ”Electro-reactor for advanced treatment of wastewater contaminated with organic compounds”, la diverse saloane internationale de inventica precum:
2016 – Gold Medal - The Belgian and international trade fair for technological innovation – INNOVA, Brussels, Belgium.
2009 – Gold Medal - Salon International des Inventions Genève, Switzerland;
2008 – Gold Medal - The Belgian and international trade fair for technological innovation – INNOVA, Brussels, Belgium.

M. Alte realizări semnificative:
membru in comitetul ştiinţific/editorial la reviste şi la manifestări stiintifice internaţionale, membru în comisii de doctorat din strainatate, profesor invitat la manifestari/universități de prestigiu din străinătate, peer reviewer pentru jurnale internaţionale, etc...

Editorial Board Member:
Nanotechnology for Environmental Engineering, Springer, din 2015
Processes (MDPI journal), din 2023
Sustainability (MDPI journal), din 2020
Advanced Chemical Process Analysis, Scilight, din 2024
Industrial Bioresource Engineering, Wiser, din 2024

Membru in echipa de coordonare teza doctorat:
Maria Magdalena Parascanu, University of Castilla-La Mancha, Ciudad Real, Spain
(teza sustinuta in octombrie 2019)

Responsabil acord Erasmus:
University of Leon –Spain, 2016-2027
University of Nantes – France, 2018-2027
Université de Sherbrooke –Canada, 2015-2027

Referent stiintific (din 2008)**:**
Bioresource Technology, Chemical Engineering Journal, Journal of Environmental Engineering and Science, Applied Microbiology and Biotechnology, Journal of Biotechnology, Environmental Technology, Journal of Hazardous Materials, International Journal of Chemical Reactor Engineering, Process Biochemistry, International Journal of Chemical Engineering, Journal of Zhejiang University Science, Journal of Chemical Technology and Biotechnology, Process Safety and Environmental Protection, Journal of Agricultural Science, Environmental Science and Technology, Desalination and Water Treatment, CLEAN - Soil, Air, Water; Air Quality, Atmosphere & Health, Applied Biochemistry and Biotechnology, Chemosphere, Biosystems Engineering, Environmental Science and Pollution Research, Applied Biochemistry and Biotechnology, Fuel, Biochemical Engineering Journal, Clean Technologies and Environmental Policy, Sustainable Materials and Technologies, Frontiers in Astronomy and Space Sciences, Sustainability

Recunoasterea vizibilitatii stiintifice: peste 1400 citari (Scopus) si indicele Hirsch (h) = 21 (Scopus), 17 (WoS), 24 (Google Scholar)

Data,
10.03.2026

L I S T A D E L U C R Ă R I

Conf.dr.ing. GEORGE BARJOVEANU

1º Teza de doctorat

Studii privind epurarea avansată a apelor uzate prin ultrafiltrare în vederea recirculării, 2009, Universitatea Tehnica Gheorghe Asachi din Iasi, Domeniul Inginerie Chimica, diploma seria G, nr. 4611, Conducător ştiinţific: Prof.dr.ing. Carmen Teodosiu.

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate

Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)

1 **Ca1:** George Barjoveanu, Evaluarea ciclului de viata al produselor, 325 pag., Editura EcoZone Iași, ISBN 978-606-8625-26-3, 325 pagini, 2021

2 **Ca2:** C. Teodosiu and G. Barjoveanu, 2011, Managementul Integrat al Mediului (Environmental Integrated Management), - Editia a III-a revizuita (3rd Edition), ECOZONE Publishing House Iasi, ISBN 978-973-7645-82-1, 219 pagini

Materiale publicate electronic de tip e-learning/ on-line/ multimedia etc.

1 W1 George Barjoveanu Suport de curs electronic la disciplina Life cycle Assessment (in limba engleza)

2 W2 George Barjoveanu Suport curs electronic la disciplina Evaluarea ciclului de viata a produselor si serviciilor

3 W3 George Barjoveanu , Carmen Teodosiu, Suport de curs electronic la disciplina Consumul Durabil

4 W4 George Barjoveanu , Carmen Teodosiu, Suport de curs electronic la disciplina Sustainable Consumption

5 W5 George Barjoveanu - Suport de curs electronic pentru disciplina Modeling and simulation in environmental protection

Capitole de carte de specialitate

1 **George Barjoveanu,** Carmen Teodosiu, Marcela Mihai, Irina Morosanu, Daniela Fighir, Ana-Maria Vasiliu, Florin Bucatariu, Chapter 12 - Life cycle assessment for eco-design in product development, Editor(s): Carmen Teodosiu, Silvia Fiore, Almudena Hospido, Assessing Progress Towards Sustainability, Elsevier, 2022, Pages 247-271, ISBN 9780323858519, https://doi.org/10.1016/B978-0-323-85851-9.00012-2.

2 **Barjoveanu G**., Teodosiu C*., Cailean (Gavrilescu D.), **2018**. Life cycle assessment of the romanian electricity mix: impacts, trends and challenges, 17 pages, **Chapter 34** of the Book: *Nearly Zero Energy Communities,* Springer Proceedings in Energy, Editors: I. Visa and A. Duta, published by Springer International Publishing AG 2018, DOI 10.1007/978-3-319-63215-5_34

Carte de specialitate/ capitol publicat în editură din ţară, recunoscută CNCS

3 Luminita Mihaela Lupu, Florina Ungureanu, Carmen Catalina Ioan, Brîndusa Mihaela Robu, **George Bârjoveanu**, Simona Andreea Ene, Claudia Cojocariu, 2011, *Managementul integrat al resurselor de apa la nivel de bazin hidrografic: instrumente informationale si de comunicare*, Editura Politehnium, Iasi, ISBN 978-973-621-392-2, pag. 1- 230

4 Teodosiu C., Gavrilescu D., **Barjoveanu G**., 2007, Reducerea poluării prin recircularea efluenţilor industriali (Reducing pollution by recycling the industrial effluents) pag. 6- 9 şi 15 – 30 in Practici de management durabil al apei in industria de hartie (Practices of Sustainable Water Management in the Pulp and Paper Industry), Teodosiu C., Gavrilescu D., Ungureanu F. (Eds), Cermi Publishing House, Iasi, ISBN: 978-973-667-253-8, 228 pag.

5 Brodersen S., **Barjoveanu G**., 2005, Perspectives and needs for further transnational cooperation (2005) p. 72 – 139. în Opportunities and Challenges for Transnational Research Co-Operation, C. Teodosiu, S. Brodersen, M. S. Jørgensen (Editori), Editura ECOZONE, ISBN 973-7645-11-1, (241 pag)

``

2º Articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale

indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

Articol publicat în revistă cotată ISI, cu factor de impact

1 Life cycle assessment of alternative concrete pavement materials incorporating industrial by-products, Sluser, Brindusa, Luca, Bogdan Ionel, Ungureanu-Comanita, Elena Diana, Bârjoveanu, George, Environmental Engineering and Management JournalOpen source preview, 2026, 25(4), pp. 943–958

2 Enache, M.-M., Gavrilescu, D., **Barjoveanu**, G.,Teodosiu, C., 2025, Plastic Waste in Romania: Between European Union Commitments and Actual Realities, Applied Sciences Switzerland, 2025, 15(24), 13264, https://doi.org/10.3390/app152413264 , Q2, FI 2,5

3 Puițel, A.C., **Bârjoveanu**, G., Balan, C.D., Nechita, M.T., 2025, Medicago Sativa Stems—A Multi-Output Integrated Biorefinery Approach, Polymers, 2025, 17(12), 1709, https://doi.org/10.3390/polym17121709, Q1, F.I : 4.9

4 Dinita, F., **Barjoveanu, G.,** & Teodosiu, C. (**2025**). An Environmental Life-Cycle Assessment of End-of-Life Vehicles Management in Romania. *Sustainability*, *17*(8), 3691. https://doi.org/10.3390/su17083691, corr auth, Q2, **FI** 3.3

5 Fighir, D., Paduraru, C., Ciobanu, R., Bucatariu, F., Plavan, O., Gherghel, A., **Barjoveanu, G.**, Mihai, M., Teodosiu, C., Removal of Diclofenac and Heavy Metal Ions from Aqueous Media Using Composite Sorbents in Dynamic Conditions (**2024**) Nanomaterials, 14 (1), art. no. 33., DOI: 10.3390/nano14010033, **Q1, FI: 5.3**

6 **Barjoveanu, G.,** Gadaleta, G., Santomasi, G., De Gisi, S., Notarnicola, M., Teodosiu, C. Does PET trays sorting affect the sustainability of plastic waste? An LCA and cost-revenue approach, (2023) Science of the Total Environment, 897, art. no. 165222, DOI: 10.1016/j.scitotenv.2023.165222**, Q1, FI 9.8**

7 Gavrilescu, D., **Bârjoveanu, G.,** Apopei, P., Gherghel, A., Teodosiu, C., PRELIMINARY PERFORMANCE EVALUATION for CHICKEN MANURE TREATMENT and VALORIZATION OPTIONS, (2023), Environmental Engineering and Management Journal, 22 (9), pp. 1535-1545. DOI: 10.30638/eemj.2023.129, **Q4, FI 1.065**

7 **Barjoveanu, G.,** Teodosiu, C., Morosanu, I., Ciobanu, R., Bucatariu, F., Mihai, M., Life Cycle Assessment as Support Tool for Development of Novel Polyelectrolyte Materials Used for Wastewater Treatment, (2023) Nanomaterials, 13 (5), art. no. 840, . DOI: 10.3390/nano13050840, **Q1, FI: 5.3**

9 **Barjoveanu, G.,** Dinita, F., Teodosiu, C., Aging Passenger Car Fleet Structure, Dynamics, and Environmental Performance Evaluation at the Regional Level by Life Cycle Assessment, (2022) Sustainability (Switzerland), 14 (14), art. no. 8443, DOI: 10.3390/su14148443, **Q1, FI: 5.3**

10 Todaro, F., **Barjoveanu, G**., De Gisi, S., Teodosiu, C., Notarnicola, M. Sustainability assessment of reactive capping alternatives for the remediation of contaminated marine sediments(Article) 2021 Journal of Cleaner Production 286, **Q1, FI: 11.1**

11 **Barjoveanu, G.,** Pătrăuțanu, O.-A., Teodosiu, C., Volf, I. Life cycle assessment of polyphenols extraction processes from waste biomass 2020 Scientific Reports 10, 1, **Q2, FI: 4.6**

12 **Barjoveanu, G.,** Teodosiu, C., Bucatariu, F., Mihai, M. Prospective life cycle assessment for sustainable synthesis design of organic/inorganic composites for water treatment 2020 Journal of Cleaner Production 272, , - **Q1, FI: 11.1**

13 Teodosiu, C., Gilca, A.-F**., Barjoveanu, G**., Fiore, S. Emerging pollutants removal through advanced drinking water treatment: A review on processes and environmental performances assessment 2018 Journal of Cleaner Production 197, , 1210-1221, **Q1, FI: 11.1**

14 **Barjoveanu, G**., De Gisi, S., Casale, R., Todaro, F., Notarnicola, M., Teodosiu, C. A life cycle assessment study on the stabilization/solidification treatment processes for contaminated marine sediments 2018 Journal of Cleaner Production 201, , 391-402 , **Q1, FI: 11.1**

15 Teodosiu, C., **Barjoveanu, G**., Sluser, B.R., Popa, S.A.E., Trofin, O. Environmental assessment of municipal wastewater discharges: a comparative study of evaluation methods 2016 International Journal of Life Cycle Assessment 21, 3, 395-411 , **Q2, FI: 9.4**

16 Teodosiu, C., Robu, B., Cojocariu, C., **Barjoveanu, G**. Environmental impact and risk quantification based on selected water quality indicators 2015 Natural Hazards 75, 1, 89-105 , A

17 Căilean, D., **Barjoveanu, G**., Teodosiu, C., Pintilie, L., Dăscălescu, I.G., Păduraru, C. Technical performances of ultrafiltration applied to municipal wastewater treatment plant effluents 2015 Desalination and Water Treatment 56, 6, 1476-1488, **Q4**

18 **Barjoveanu**, **G.**, Comandaru, I.M., Rodriguez-Garcia, G., Hospido, A., Teodosiu, C. Evaluation of water services system through LCA. A case study for Iasi City, Romania 2014 International Journal of Life Cycle Assessment 19, 2, 449-462 , **Q2, FI: 9.4**

19 Popa, S.-A.E., Teodosiu, C., Barjoveanu, G. Water footprint assessment of the ethyl alcohol production 2014 Environmental Engineering and Management Journal 13, 8, 2087-2096, **Q4, FI 1.065**

20 Arsene, D., Teodosiu, C., Barjoveanu, G., Apreutesei, R.E., Apopei, P., Musteret, C.P., Cailean, D. Combined catalytic oxidation and adsorption of priority organic pollutants for wastewater recycling 2013 Environmental Engineering and Management Journal 12, 5, 907-916, **Q4, FI 1.065**

21 Teodosiu, C., Barjoveanu, G.*, Vinke-de Kruijf, J. Public participation in water resources management in romania: Issues, expectations and actual involvement 2013 Environmental Engineering and Management Journal 12, 5, 1051-1063 , **Q4, FI 1.065**

22 Barjoveanu, G., Teodosiu, C., Cojocariu, C., Augustijn, D., Craciun, I. Instruments for integrated water resources management: Water quality modeling for sustainable wastewater management 2013 Environmental Engineering and Management Journal 12, 8, 1679-1690 , **Q4, FI 1.065**

23 Teodosiu, C., Barjoveanu*, G., Robu, B., Ene, S.-A. Sustainability in the water use cycle: Challenges in the romanian context 2012 Environmental Engineering and Management Journal 11, 11, 1987-2000 , **Q4, FI 1.065**

24 Comandaru, I.M., Bârjoveanu*, G., Peiu, N., Ene, S.-A., Teodosiu, C. Life cycle assessment of wine: Focus on water use impact assessment 2012 Environmental Engineering and Management Journal 11, 3, 533-543 , **Q4, FI 1.065**

25 Cojocariu, C., Barjoveanu, G., Robu, B., Teodosiu, C. Integrated environmental impact and risk assessment of the agricultural and related industries in the Prut River Basin 2012 Studia Universitatis Babes-Bolyai Chemia , 1, 151-166

26 Arsene, D., Musteret, C.P., Catrinescu, C., Apopei, P., Barjoveanu, G., Teodosiu, C. Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters 2011 Environmental Engineering and Management Journal 10, 12, 1967-1976 , **Q4, FI 1.065**

27 Barjoveanu, G., Cojocariu, C., Robu, B., Teodosiu, C. Integrated assessment of wastewater treatment plants for sustainable river basin management 2010 Environmental Engineering and Management Journal 9, 9, 1251-1258 , **Q4, FI 1.065**

28 Musteret, C.-P., Cailean, D., Barjoveanu, G., Teodosiu, C. An assessment of operational parameters for the removal of chlorophenols from wastewater 2010 Environmental Engineering and Management Journal 9, 10, 1451-1457 , **Q4, FI 1.065**

20 Barjoveanu, G., Teodosiu, C. Modeling and simulation of an ultrafiltration process for the removal of suspended solids and colloids from wastewater 2010 Environmental Engineering and Management Journal 9, 3, 361-371 , **Q4, FI 1.065**

30 Căilean, D., Barjoveanu, G., Musteret, C.-P., Sulitanu, N., Manea, L.R., Teodosiu, C. Reactive dyes removal from wastewater by combined advanced treatment 2009 Environmental Engineering and Management Journal 8, 3, 503-511 , **Q4, FI 1.065**

31 Barjoveanu, G., Teodosiu, C. Priority organic pollutants removal by ultrafiltration for wastewater recycling 2009 Environmental Engineering and Management Journal 8, 2, 277-287 **Q4, FI 1.065**

Articole publicate în revistă indexata ISI web o science, fara factor de impact

32 Bârjoveanu, G., Teodosiu, C., Gîlcă, A.-F., Roman, I., Fiore, S. Environmental performance evaluation of a drinking water treatment plant: A life cycle assessment perspective, 2019, Environmental Engineering and Management Journal,18, 2, 513-522 FI: 0

33 Barjoveanu, G., Teodosiu, C. Advanced treatment for pulp and paper wastewater recycling by membrane processes 2006 Environmental Engineering and Management Journal 5 2 145 167FI: 0

34 Barjoveanu, G., Teodosiu, C., Ungureanu, F. Modelling and simulation for the prediction of ultrafiltration process performances in wastewater treatment 2006 Environmental Engineering and Management Journal 5 4 609 624FI: 0

35 Barjoveanu, G., Teodosiu, C., Jørgensen, M.S. Sustainable development assessment. Application to the Prut River Basin 2004 Environmental Engineering and Management Journal 3 4 827 844FI: 0

36 Teodosiu, C., Barjoveanu, G., Teleman, D. Sustainable water resources management 1. River basin management and the EC water framework directive 2003 Environmental Engineering and Management Journal 2 4 377 **394FI: 0**

Articole publicate în reviste indexate in baze de date internaţionale (BDI)

1 **Barjoveanu G**., Apopei P., Gavrilescu D., Gherghel A., Teodosiu C., Chicken manure valorisation by forced aeration in-vessel composting at laboratory scale, 2023, Buletinul institutului politehnic din Iaşi, 69 (73), 3, doi:10.5281/zenodo.10072463

2 Cojocariu C., Robu B., Barjoveanu G., **Teodosiu C., (2011)**, **Environmental assessment of pollution with detergents in the Prut River Basin, Romania**, *AES BIOFLUX Advances in Environmental Sciences - International Journal of the Bioflux Society,* vol 3, no 2, p. 129-139.

3 **Barjoveanu G.,** Comandaru I. M., Teodosiu C., *Life cycle assessment of water and wastewater treatment systems: An overview,* Buletinul Institutului Politehnic din Iasi, LVI(LX), (4), Secţia Chimie şi Inginerie chimică, pp.73-86, 2010.

4 C. Cojocariu, I. Caraene, **G. Barjoveanu**, C.Teodosiu, *Assessment of Water Quality Evolution in the Prut-Bârlad River Basin***,** Buletinul Institutului Politehnic din Iasi*,* Tomul LV(LIX), fasc. 4, Sectia Chimie si Inginerie Chimica, pp.219-228, 2009.

5 Manea L.R., Teodosiu C., Bertea A., **Barjoveanu G.**, Musteret C.P., Pantilimonescu F., Deliu R., *Process control smart systems for cleaning the waste waters*, Buletinul Institutului Politehnic din Iasi, Sectia Stiinta si Ingineria Materialelor, Tomul LV (LIX), Fasc. 4, pp. 229-237, 2009.

Brevet de invenţie acordat în ţară

1

G. Barjoveanu, C. Teodosiu, C.F. Catrinescu, D.Fighir, D. Gavrilescu, C.P.Musteret (2018) Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Cerere de brevet nr. 5075/25.11.2015 inregistrata la OSIM cu nr. A/00967 din 04.12.2015. Brevet OSIM nr. 131271/30.08.2018

2 Teodosiu C., Barjoveanu G., Manea L.R., Bertea A. P., Musteret C. P., Cailean D. (2010), Procedeu de ultrafiltrare-ultrasonare pentru epurarea apelor uzate din industria textila (Ultrafiltration-Ultrasound Treatment Process for Purifying Waste Waters in Textile Industry), Brevet OSIM nr. 122813/26.02.2010

Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

1 Barjoveanu G., Teodosiu C., Cailean (Gavrilescu) D. (2018) Life Cycle Assessment of the Romanian Electricity Mix: Impacts, Trends and Challenges. In: Visa I., Duta A. (eds) Nearly Zero Energy Communities. CSE 2017. Springer Proceedings in Energy. Springer, Cham. https://doi.org/10.1007/978-3-319-63215-5_34

2 Teodosiu C. *, Barjoveanu G., Cailean (Gavrilescu) D., Musteret C.P., Arsene (Fighir) D., Moroșanu I., Popovici D., Dăscălescu I., Trofin O.*, Minea M., Toma I., **2017**. **Pilot scale ultrafiltration for municipal wastewater reuse**. International Conference Proceedings: 2017, ARA Publishing House, ISBN 978-973-88245-1-5, pages: 3-17

3 Musteret C., Barjoveanu G., **C.Teodosiu**, **(2008)**, **Ultrafiltration performances in the removal of priority organic pollutants**, EMCC – 5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, pp.334-336.

4 Barjoveanu G., Dascalescu I., Dorus M., Teodosiu C., *Institutional capacity assessment for water and wastewater management: a case-study for Iasi County, Romania,* Proceedings of the 3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, 19-24 June 2011, Skiathos Greece, ISBN 978-960-6865-43-5, pp. 213 – 218, 2011.

5 V**Barjoveanu G.,** Teodosiu C., Volf. I, **(2008)**, *Study of Membrane Performances for Wastewater Treatment by Ultrafiltration*, Conference Proceedings Excellence Research – A way to innovation, Section Environment and Health, Ed. Tehnică, Bucuresti, , ISSN 1844-7090, pp. 62-1 – 62-6, 2008.

6 Teodosiu C., **Barjoveanu G.**, Lupu L., Volf. I., *Evaluation of process technologies for advanced treatment and recycling of industrial effluents,* Conference Proceedings Excellence Research – A way to ERA, Section Environment and Health, Ed. Tehnică, Bucuresti*,* ISSN 1843- 5904, pp. 62-1 – 62-6, , 2007.

7 **Barjoveanu G.**, Musteret C., Caraene I., Teodosiu C., *Advanced treatment by ultrafiltration for industrial wastewater recycling*, International Conference Disasters and Pollution Monitoring, IC.DPM.03, Ed. Performantica Iaşi, , ISBN 978-973-730-406-3, pp. 159-168, 2007.

8 Căilean D., Mustereţ C.P., **Barjoveanu G.,** Teodosiu C., **(2008)**, *Ultrafiltration and ultrasonication as combined processes for wastewater treatment in textile industry*, vol. de lucr. "Materiale şi procese inovative, Iaşi 19-21 nov., ZFIC 5, Ed. Politehnium, pp.160-167, 2008.

9 Teodosiu C., **Barjoveanu G.**, Musteret C.P., Manea L., Căilean D., Bertea A., *Ultrasonic activated and biosensors controlled filtration computerized systems for textile processes,* vol. lucr. Conferinţa internaţională jubiliară de Inventică – INVENTICA 2008, Editia a XII-a, 12 – 24 mai 2008, Iaşi, 2008.

COMUNICARI

1 Milvia Elena Di Clemente*, **George Barjoveanu**, Roberto Grisorio, Andrea Petrella, Gian Paolo Suranna, F. Todaro, Carmen Teodosiu, Michele Notarnicola, LCA of Cellulose-Based Material Synthesis for the Remediation of Contaminated Sediment, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 September 2025, Iasi, Romania, https://www.iceem.tuiasi.ro/

2 Florenta Dinita (Suhani - Dinita), **George Barjoveanu**, Carmen Teodosiu, Life Cycle Assessment of End-of-Life Vehicles in Romania, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 September 2025, Iasi, Romania, https://www.iceem.tuiasi.ro/

3 **George Barjoveanu**, Ramona Ciobanu, Oana Plavan, Florin Bucatariu, Marcela

Mihai, Carmen Teodosiu, Daniela Fighir , An LCA Comparison of Early-Stage Environmental Assessement of Organic-Inorganic Composites for Environmental Applications , 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 September 2025, Iasi, Romania, https://www.iceem.tuiasi.ro/

4 Adrian Cătălin Puițel, **George Bârjoveanu**, Cătălin-Dumitrel Balan Dumitrel, Mircea Teodor Nechita, Laura Bulgariu , Lucerne (*Medicago Sativa*) - A Promising Candidate For Multiple Output Biorefinery, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 September 2025, Iasi, Romania, https://www.iceem.tuiasi.ro/

5 Diniță F., **Barjoveanu** G., Teodosiu C., 2023. An environmental life-cycle analysis profiling of end-of-life vehicles in Romania, 12th International Conference on Environmental Engineering and Management, ICEEM12, 13-16 September 2023, Iasi, Romania, https://www.iceem.tuiasi.ro/

6 Gavrilescu D., **Bârjoveanu** G., Apopei P., Gherghel A., Talpalaru A., Teodosiu C., 2023. Environmental impact assessment of gaseous emissions in laying hens manure management, 12th International Conference on Environmental Engineering and Management, ICEEM12, 13-16 September 2023, Iasi, Romania, https://www.iceem.tuiasi.ro/

7 Diniță F., **Barjoveanu** G., Teodosiu C., 2022. Scenario-based analysis of Iasi County car fleet evolution and environmental performance evaluation, 6th International Conference on Chemical Engineering Innovative Materials and Processes for a Sustainable Development (ICCE6), October 5 – 7, 2022 – online

8 Diniță F., **Barjoveanu** G., Teodosiu C., 2022. Scenario-based analysis of Iasi County car fleet evolution and environmental performance evaluation, 6th International Conference on Chemical Engineering Innovative Materials and Processes for a Sustainable Development (ICCE6), October 5 – 7, 2022 – online

9 **Barjoveanu G.,** Gavrilescu D., Apopei P., Teodosiu C. 2022 Life cycle assessment of chicken manure treatment options. 1st International Conference on Sustainable Chemical and Environmental Engineering (SUSTENG), 31.08.-04.09.2022, Rethymno, Crete, Greece.

10 **Barjoveanu G.,** F., Teodosiu C., Morosanu I., Fighir D., Bucatariu F., Mihai M. 2022. Life cycle assessment as support tool for development of novel materials used in environmental applications, 1st International Conference on Sustainable Chemical and Environmental Engineering (SUSTENG), 31.08.-04.09.2022, Rethymno, Crete, Greece

11 **Gavrilescu D.,** Barjoveanu G., Teodosiu C., Apopei P., Talpalaru A., 2022. Preliminary performance evaluation for chicken manure treatment and valorization options, 1st International Conference on Sustainable Chemical and Environmental Engineering (SUSTENG), 31.08.-04.09.2022, Rethymno, Crete, Greece

12 **Barjoveanu G.,** Bucatariu F., Teodosiu C., Mihai M., 2021, Environmental performances assessment of synthesis and testing of Silica//(PEI) composite microparticles used for heavy metal ions removal from wastewater, Conferinta Internationala IWA EcoSTP 2021 “Impacting the environment with innovation in wastewater treatment”, Milan, Italy - 21-25 Iunie, 2021

13 **Barjoveanu G**., Diniță F., Teodosiu C., 2021, A life-cycle analysis of second-hand vehicles impacts in Romania, 11th International Conference on Environmental Engineering and Management, ICEEM11, 8-10 Septembrie 2021, Muttenz, Elvetia

14 Gavrilescu D., **Barjoveanu** G., Apopei P., Talpalaru A., Seto B.C., Teodosiu C., 2021, Preliminary performance screening of chicken manure waste treatment options, 11th International Conference on Environmental Engineering and Management, ICEEM11, 8-10 Septembrie 2021, Muttenz, Elvetia

15 Suhani (Dinita) F., **Barjoveanu** G., Teodosiu C., 2021, Premises for the environmental assessment of second-hand vehicles imports in Romania, 4th International Conference of the Doctoral School “Gheorghe Asachi” Technical University of Iasi, 19 – 21 Mai, 2021, Iasi, Romania

16 **Barjoveanu G.**, Teodosiu C., Predescu A., Matei E., Predescu C., Environmental assessment of FeO3@TiO2 nanoparticles synthesis. 2nd International Conference on Emerging Technologies in Materials Engineering, EmergeMAT 6-8 November 2019 Romania, Bucharest

17 **George Barjoveanu**, Irina Morosanu, Carmen Teodosiu, Environmental life cycle assessment of micropollutants removal from wastewaters by rapeseed biosorbents, ICEEM10, Iasi, 18-21 September 2019,

18 **George Barjoveanu,** Carmen Teodosiu, Daniela Fighir, Dan Popovici, **2017**, **Life cycle evaluations of pilot-scale ultrafiltration for wastewater reuse**, 9th International Conference on Environmental Engineering and Management, ICEEM09, 6 – 9 Septembrie 2017, Bologna, Italia

19 Daniela Cailean (Gavrilescu), **George Barjoveanu,** Carmen Teodosiu, **2017**, **Sustainability of the packaging waste management systems in Eastern European countries**, 9th International Conference on Environmental Engineering and Management, ICEEM09, 6 – 9 Septembrie 2017, Bologna, Italia

202 Andreea-Florina Gîlcă, **George Bârjoveanu**, Carmen Teodosiu, Ioana Roman, Silvia Fiore, **2017**, **Life cycle assessment of a drinking water production system**, 9th International Conference on Environmental Engineering and Management, ICEEM09, 6 – 9 Septembrie 2017,

Bologna, Italia

21 C. Teodosiu*, **G. Barjoveanu,** D. Cailean (Gavrilescu), C.P. Musteret, D. Arsene (Fighir), I. Moroșanu, D. Popovici, I. Dăscălescu, O. Trofin*, M. Minea, Ion Toma, (**2017**), **Pilot scale ultrafiltration for municipal wastewater reuse**, *Scientific and Technical Conference Sustainable Solutions in Water Management 2017*, Session: Sustainable Technologies, 15-17 May 2017, Bucharest, Romania

22 D. Cailean (Gavrilescu), C.G. Didilescu, **G. Barjoveanu,** D. Ibanescu, O. Ghiuzan, B.M. Sluser, C. Teodosiu**, 2016. Environmental sustainability evaluation based on waste absorption footprint indicator applied in the Prut River basin**, 3rd International Conference on Chemical Engineering Romania, Iași, 09 – 11 November 2016

23 **G. Barjoveanu,** C. Teodosiu, Economie **circulara si consum durabil pentru eficienta utilizarii resurselor**, Economie Circculara si design sistemic, 26 Sept **2016**, Iasi, Romania, Organizator ADR NE Piatra Neamt, participanti: reprezentanti Comisia Europeana, mediul economic, universitati, institute de cercetare, ONG-uri, etc.

24 **I**oana Dascalescu, Florina Ungureanu, **George Barjoveanu**, Marius Minea, **C**armen Teodosi**u**, **2015, Development of Versatile Water Quality Index for Water Supply Applications,** *8th International Conference on Environmental Engineering and Management, ICEEM08,* 9- 12 Septembrie 2015, Iasi, Romania

25 Daniela Cailean (Gavrilescu), Carmen Teodosiu, **George Barjoveanu**, Daniela Arsene, Andreea Chelba, Irina Chihaitei (Morosanu), Ioana Dascalescu, **2014, Selection of Advanced Wastewater Treatment Processes for Effluent Reclamation based on Multi-criteria Decision Analysis**, 2nd International Conference on Chemical Engineering Innovative Materials and Processes, 5-8 November, 2014, Iasi, Romania

26 Carmen Teodosiu**, George Barjoveanu,** Simona-Andreea Popa, Ioana Dascalescu, Brindusa Robu, (**2013**), **Environmental Assessment of Wastewater Discharges. A Comparative Study of Evaluation Methods**, Conferinta Internationala „**7th International Conference on Environmental Engineering and Management - Integration Challenges for Sustainability**", 18 – 21 September 2013, Vienna, Austria.

27 Brânduşa Robu, George Bârjoveanu, **Carmen Teodosiu**, (**2012**), **Integrated approach in impact and risk assessment for the water use cycle***,* Conferinţa internaţională "***American Industrial Hygiene Association – Technical Fall Conference***", 24-26 September, Denver, Colorado, U.S.A. – invited keynote lecturer

28 Simona-Andreea Ene (Popa), Iulia-Maria Comandaru, **George Bârjoveanu**, Carmen Teodosiu, (2012), **Studies concerning the use of the water footprint instrument for the alcohol production industry**, Conferinţa internaţională "9th International Conference „Environmental Legislation, Safety Engineering and Disaster Management" – ***ELSEDIMA***, 25– 27 Octombrie 2012, Cluj-Napoca, România.

29 Carmen Teodosiu, Simona-Andreea Ene, Iulia Maria Comandaru, Elisabeta Pomeanu, Ioana Dăscalescu, Brînduşa Robu, Carmen Catalina Ioan, **George Bârjoveanu,** (2012), **Sustainability in the water use cycle: Challenges in the Romanian context,** Conferinţa internaţională "CENTENARY OF EDUCATION IN CHEMICAL ENGINEERING, Iaşi, 28-30 Noiembrie, 2012, România

30 Daniela Arsene, **George Bârjoveanu**, Carmen Teodosiu, (2012), **A comparative study on the catalytic wet hydrogen peroxide oxidation using different pillared clays for chlorophenols removal from wastewater** - Conferinţa internaţională "ECO-IMPULS 2012", 25-26 octombrie, Timişoara, România.

31 Teodosiu C.**,** Ene S.A., Comandaru I.M., **Barjoveanu G.,** (2012), **Linking Water Accounting Tools: Water Footprint Application In Life Cycle Assessment**, First International Conference on MOLDAVIAN RISKS - FROM GLOBAL TO LOCAL SCALE, 16-19 mai, 2012 Bacau, Romania

32 **Bârjoveanu G.**, Robu B., Cojocariu C., Ene S.A, Comandaru I.M., Pomeanu E., Dăscălescu I., Teodosiu C., (2011), **New research directions in integrated water resources management**, Conferinţa Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, **ZFIC VIII,** 17-18.11.2011, Iaşi, România.

33 Teodosiu C., Robu B., **Barjoveanu G., (2011)**, Plenary conference: **Bridging disciplinary perspectives in sustainable water resources management in Romania,** International Conference on Environmental Engineering and Management*, ICEEM 06*, Balatonalmadi, Hungary

34 Carmen Teodosiu, **George Barjoveanu**, Simona-Andreea Ene, Claudia Cojocariu, Brindusa Robu, **(2011)**, **Integrated Water Resources Management: Support Tools for Implementation in Romania,** *First International Conference on SUSTAINABLE WATERSHED MANAGEMENT,* Istanbul, Turkey,19-22 September 2011

35 Cojocariu C., **Barjoveanu G.,** Robu B., Teodosiu C., **(2011)**, ***Integrated environmental impact and risk assessment of agricultural and related industries in the Prut river basin, Romania*****,** 1st Danube – Black Sea Young Water Professionals Conference 2011, Bucureşti, Romania.

36 **Bârjoveanu G.,** Dascalescu I., Dorus M., Teodosiu C., **(2011)**, **Institutional capacity assessment for water and wastewater management: a case-study for Iasi County, Romania**, at the 3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, 19-24 June 2011, Skiathos

Greece.

37 Comandaru I.M., Peiu N., **Bârjoveanu G.,** Teodosiu C., **(2011)**, ***Life cycle assessment of wine. Focus on water use impact assessment*"**, International Conference, ICEEM 06, Balatonalmadi, Hungary

38 Teodosiu C., **Barjoveanu G.,** Ene S.A., Cojocariu C., Robu B., (**2011**), ***Integrated water resources management: Support tools for implementation in Romania*****,** 1st International Conference on „Sustainable Watershed Management" (SuWaMa), Istanbul, Turkey.

39 Comandaru I.M, **Barjoveanu G.**, Cojocariu C., Ene S.A, Teodosiu C., (**2010**), ***Life cycle assessment for wastewater treatment systems***, at „The 90th Anniversary Prof. Acad. Cristofor Simionescu" Conference the Faculty of Chemical Engineering and Environmental Protection Science Days, ZFICPM 07, Iasi, Romania.

40 Cojocariu C., Caraene I., **Barjoveanu G**., Teodosiu C., **(2009)**, ***Assessment of water quality evolution in the Prut – Barlad river basin*** , Conferinta ZFICPM 06, 18-20 septembrie 2009, Iasi, Romania.

41 Teodosiu C., Manea L, **Bârjoveanu G**., Bertea A, Musteret C. P., Căilean D., Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment, Le salon international de l'Innovation de la Recherche et des Nouvelles technologies, Brussels, 13-15 nov. 2008.

42 Teodosiu C., Manea L., **Bârjoveanu G**., Bertea A., Musteret C. P., Căilean D., Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment, Festivalul internaţională de inovare în tehnologii noi şi creaţie Teslafest, Novi Sad ,11-15 octombrie 2008

43 Căilean D., Mustereţ C.P., **Bârjoveanu G.**, Teodosiu C., **2008**, ***Ultrafiltration and ultrasonication as combined processes for wastewater treatment in textile industry***, conf. "Materiale şi procese inovative, Iaşi 19-21 nov., ZFIC V, p.160-167.

44 C.Teodosiu, **G. Barjoveanu,** C. Musteret, C. Catrinescu, **2008**, ***Advanced wastewater treatment technologies for recycling industrial wastewater***, Conferinţa internaţională jubiliară de Inventică – INVENTICA 2008, Editia a XII-a, 12 – 24 mai 2008 Iasi

45 **Teodosiu C.,** Teleman D., Lupu L., **Bârjoveanu G**., ***Water management and its challenges in the context of sustainability***, International Conference on Trends in Environmental Education EnvEdu, 18-20 Noiembrie 2006

46 **C. Teodosiu**, Barjoveanu, G., **Oportunities for transnational co-operation in sustainable water management**, Conferinţa Internaţională EnvEdu 2005 *Trends in Environmental Education***,** 8-10 Septembrie 2005, Brasov, Romania, Conference Proceedings, Transilvania University Brasov, 2005

47 C. Teodosiu, M. Gavrilescu, **G. Barjoveanu**, **Romanian perspective on partnerships in sustainable water management and land use,** Lucrare comunicata la International Conference "Advancing Science and Society Interactions", Seville (Spain) 03-05 February, 2005

48 **G.Barjoveanu**, C.Teodosiu, ***Dezvoltarea indicatorilor de durabilitate pentru activităţi industriale***¸ comunicare prezentata la Zilele Facultăţii de Inginerie Chimică din Iaşi, 24-25 noiembrie 2005

4. Proiecte de cercetare-dezvoltare pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională

1 WAste Reduction and Management by implementing circular economy in Western Africa" (acronim WARM), cod ERASMUS-EDU-2024-CBHE-STRAND – 2 și grant agreement number 101179192, care se derulează în perioada 01.12.2024 – 30.11.2027, membru in echipa de implementare TUIASI.

2 TEACH4SD – Transforming Education Area and Competency Hub for Sustainable Development, Project: 101103894 — TEACH4SD — ERASMUS-EDU-2022-PEX-COVE, Valoare totala proiect 15.06.2023 - 14.06.2027: 1398245 lei, membru in echipa de implementare

3 **Grant EnvEdu-OERs,** Environmental Education – Open Educational Resources for Rural Citizens**,** funded by Education, Scholarships, Apprenticeships and Youth Entrepreneurship Programme (ESAYEP), EEA Grants 2014-2021, 2021 – 2023, member of the implementation team., https://envedu.unitbv.ro/en_US/

4 **Grant TRAMS/EU FP6, contract SAS6- 013654,** Training and mentoring of science shops (TRAMS), **2005-2008**, Value - 15500 EURO (30 months) C.Teodosiu*:* director grant TUIasi and Co-ordinator of WP3 TRAMS (E-learning tools), **member of the research team: Barjoveanu, G.**

5 **Grant SOCRATES /MOD- Management and security assesment for sustainable environment –** *MASS*, 51388-IC-2004-RO-ERASMUS-MODUC-6, **2005-2007,** Value 8000 EURO (24 months) , **C.Teodosiu*:* director grant TUIasi, Barjoveanu G, membru**

6 **Grant ISSNET/EU FP5 -** *"Improving science shop networking",* contract nr. HPRP-CT-2002-00011 (Program Cadru 5), **2003-2005,** Value 18000 EURO/30 months, C.Teodosiu*:* director grant TUIasi and Co-ordinator of WP4 ISSNET (Transnational Research Co-operation), **member of the research team: Barjoveanu, G.**

7 **Grant:** *„Knowledge transfer and institutional capacity building for cleaner production in Romania",* **2003- 2005,** Grant financed by Swedish Institute Stockholm, Suedia, 24 000 EURO/3 years, Directors of the programme: Thomas Lidhqvist, IIIEE Lund, Suedia and C. Teodosiu , TUIasi, **member of the research team: Barjoveanu, G.**

8 **Grant MATRA II/NL -** *"Problem based learning through Science shops in Romania"* **2002-2005 -** Contract DZO-UM/1299/2002**,** financed by Ministry of Foreign Affairs of the Netherlands, Value 12645 EURO/36 months, C.Teodosiu: director grant TUIasi, **member of the research team: Barjoveanu, G**

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi commerciale

Director / responsabil de proiect

1 *Proiect centrede excelenta COEX - CERSUS Center of Excellence in water management, materials, by-products and waste valorisation for circular bioeconomy implementation*, proposal number PN-IV-P6-6.1-CoEx-2024-0056, contract 6 CoEx/02.06.2026, within PNCDI IV. Responsabil pachet de lucru **WP6 George Barjoveanu**: Sustainability and risk assessment of materials development, advanced processes, by-products and waste valorisation, 2026 – 2030, Buget total : 85.900.000 RON , Buget TUIASI: 35.648.500 RON

2 Proiect POR-RIS 3, POR/1/1.1/OS 1.2/1, no. 136527, contract no: 7288/2021, "Integrated solutions for chicken manure waste management- Chicken Waste", 2021-2023, Regional Operational Program 2014-2020, **Responsabil de proiect G. Barjoveanu,** buget total: 16.811.461, 26 RON, buget TUIASI: 405.720 RON

3 Proiect PC 5. Evaluarea sustenabilitatii proceselor de tratare/epurare a apei si valorificare a deseurilor prin analiza ciclului de viata, **Responsabil de proiect G. Barjoveanu** in cadrul Grantului PCCDI nr. 26PCCDI/01.03.2018, PNCDI III (Proiecte complexe realizate în consorţii CDI), Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate și valorificare a deșeurilor **SUSTENVPRO**, (01.03.2018 - 30.12.2020), valoare proiect: 758.605 lei, (project code: PN-III-P1-1.2-PCCDI-2017-0245),

4 Studii privind eficientizarea statiei de epurare a SC DELPHI DIESEL SYSTEMS ROMÂNIA S.R.L., 2012, **director de proiect: dr.ing. George Barjoveanu**, 86.850 RON fara TVA,

Membru in echipa de implementare

1 Expert senior **Proiect Digital Innovation Zone**, Contract DIGITAL-2021-EDIH-01, contract nr. 101083392, cod SMIS 323036 , membru in echipa de implemnetare

2 Grant PNCDI III, Innovative and sustainable solutions for priority and emerging pollutants removal through advanced wastewater treatment processes - SUSTINWATER, P4 – PCE, PN-III-P4-ID-PCE-2020-1199, 2021 – 2023, Membru in echipa de implementare: **G. Barjoveanu**, https://sustinwater.icpm.tuiasi.ro/

3 Noi abordări în formarea profesională a specialiştilor din domeniul Ingineria Mediului în vederea dezvoltării durabile regionale şi a corelării la cerinţele actuale ale pieţii muncii (*REGIOSIM*), 2014-2015, Project financed by the European Social Fund (80%) and Romanian Government (20%), POSDRU/156/1.2/G/136423, DMI 1.2, team member, Total value: 706.000 lei, valoare 2014: 47394.35

4 Grant ERA-NET: Sustainable and safe water management in agriculture: increasing the efficiency of water reuse for crop growth while protecting ecosystems, services and citizens' welfare – REWATER, COFUND-WATER WORKS ERANET 2015-REWATER (1) 2017 – 2020, membru in echipa de implementare, https://www2.isep.ipp.pt/rewater/

5 Grant PNII-PCCA- , SISTEM INTEGRAT PENTRU REDUCEREA IMPACTURILOR ŞI RISCURILOR DE MEDIU ŞI ASUPRA SĂNĂTĂŢII UMANE ÎN CICLUL DE UTILIZARE AL APEI (WATUSER), 2012 - 2015, director de proiect: prof.dr.ing. Carmen Teodosiu, \

6 **Grant PNCDI II, Contract no. 32-125/2008, (2008-2011**), **Sistem suport tehnico-decizional pentru managementul durabil al apei** (*Technical and Decision Making Support System for Sustainable Water Management)***,** **STEDIWAT**, Project director C.Teodosiu, **member of the research team: Barjoveanu, G.,** total value, 1.950.000 RON

7 **Grant PN-II-ID-PCE-2008-2, IDEI, Cod 368, Contract no. 739/2009, (2008-2011), Procese combinate de epurare avansată a apelor uzate pentru eliminarea poluanţilor organici persistenţi şi îmbunătăţirea biodegradabilităţii apelor uzate** *(Combined advanced wastewater treatment processes for the removal of persistent organic pollutants and enhancement of wastewater biodegradability)***,** Project director: C. Teodosiu, **member of the research team: Barjoveanu, G.,** Total value (contractare 2008), 961.500 RON

8 **Grant PNCDI II Capacitati PN II CAPACITATI,** Contract no. 94/13.09.2007 (2007-2009), ***Extinderea competenţelor laboratorului de analiză şi control a factorilor de mediu în domeniul estimării, caracterizării şi valorificării resurselor regenerabile şi reciclabile prin procedee chimice şi biotehnologice MEDRESLAB*** *(Increase of the competence of the Laboratory for analysis and control of environmental factors in the field of assessement, characterisation and valorisation of the renewable and recyclable resources through chemical and biotechnological processes)*, Project director I. Volf, **member of the research team : Barjoveanu, G.**, total value 2.000.000 RON

9 **Grant PNCDI II, Contract no. 71-003/2007, (2007-2010)**, **Tehnologii inovative de obtinere a nanofibrelor prin sistem computerizat de electrofilare** *(Innovative technologies for obtaining nanofibres by a computerized system of electrospinning)*; ELECTROSPIN - PN II-71_003; Project director: conf. dr. ing. Manea Liliana Rozemarie; **member of the research team: Barjoveanu, G.,** total value 450112 RON

10 **Grant CEEX Modul I, FILTSOFTUS, Sisteme computerizate de filtrare şi separare activate cu ultrasunete şi controlate cu biosenzori pentru procese textile** *(Computerized ultrasound filtration and separation activated and controlled with biosensors for textile processes)*, **2007-2008**, project director Liliana Manea, **member of the research team: Barjoveanu, G.,** - Contract CEEX MATNANTECH 77/2006, total value 1.340.000 RON

11 **Grant CEEX/MEdC Retea integrata pentru managementul durabil al resurselor de apa SIWMANET** (*Sustainable and Integrated Water Resources Management Network),* **- 2006-2008**, Project director: C.Teodosiu, **member of the research team: Barjoveanu, G.,** value TUIasi: 115.000 RON, Contract no. 115/01.08.2006, code MEdC M3-C3- 12373

12 **Grant CNCSIS tip A**, code CNCSIS 288, **Eco-proiectarea proceselor, produselor si serviciilor in relatie cu componentele managementului de mediu, in contextul dezvoltarii durabile** *(Processes, products and services eco-design in relation to the environmental management components in the context of sustainable development)*, Project director: Matei Macoveanu, **member of the research team Barjoveanu, G.,** Period: 3 years **(2006-2008)**, value 2006: 35000 RON

13 **Grant CEEX/ MEdC Tehnologii de epurare avansata pentru recircularea efluentilor industriali** (*Advanced Treatment Technologies for Recycling Industrial Wastewater)* **- RIWATECH**, **2005-2008**, Project director: C. Teodosiu, **member of the research team : Barjoveanu, G.,** total value TUIasi: 1.234.282 RON, contract no. 62/03.10.2005

14 **Grant CNCSIS type A, Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii** *(Identification and analysis of strategies and technologies for pollution prevention and cleaner production, as instruments of sustainable development, in production and services systems)*, Contract no. 34664/24.06.2005, Code 511, tema 27, Project director: Maria Gavrilescu, **member of the research team: Barjoveanu, G.**, Value UTI 225.000.000 ROL

15 **Grant CNCSIS type A, Soluţii hardware şi software pentru monitorizarea calitaţii apei potabile** *(Hardware and software solutions for drinking water quality monitoring),* Contract CNCSIS no. 27637/2005, code 575, Tema 59, Proiect Director: Florina Ungureanu, **member of the research team: Barjoveanu, G.**, Value UTI 200.000.000 ROL

Alte lucrări de proiectare-cercetare-dezvoltare

Peste 40 de proiecte si contracte de cercetare cu mediul economic.

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Data: 30.09.2026

Dr.ing. George Barjoveanu

Lista de lucrări

Numele şi prenumele: CÂRLESCU IRINA

A. Teza de doctorat.

Instituție: Universitatea Tehnică Gheorghe Asachi din Iași
Perioada: 2000-2005
Coordonator: prof.dr.ing. Dan Scutaru
Titlul tezei: Derivați de ferocen cu proprietăți speciale
Titlul: DOCTOR în CHIMIE diploma seria C nr. 0008049 Ordin .4802/15.08.2005.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. **Carlescu I**.,"Introductory chapter: Nematic Liquid crystals" in "Liquid crystals and Display Technology", **2020**, IntechOpen Publisher, London, Editor Morteza Sasani GhamsariI, Co-editor Irina Carlescu. ISBN 978-1-78985-368-1. Print ISBN: 978-1-78985-367-4. eBook (PDF) ISBN: 978-1-78985-505-0. DOI: 10.5772/intechopen.77795.
2. **Carlescu I**.,"Introductory chapter: Liquid crystals" in "Liquid crystals: self-organized soft functional materials for advanced applications", 1-8, **2018**, IntechOpen Publisher, London, Ed. I. Carlescu, ISBN 978-953-51-6761-7. DOI: 10.5772/intechopen.82296.
3. Scutaru D., **Carlescu I**., Bulai (Cioanca) E. R., Ciobanu C.I., Lisa G. and Hurduc N., "Bent-core liquid crystals: structures and mesomorphic properties" Chapter 1 in "Liquid crystals: self-organized soft functional materials for advanced applications", 1-19, **2018**, IntechOpen Publisher, London, Ed. I. Carlescu, ISBN 978-953-51-6761-7. DOI: 10.5772/intechopen.81704.
4. **Carlescu I**., Apreutesei Wilson D., Lisa G., Hurduc N., Scutaru D., "Monosubstituted ferrocene-containing thermotropic liquid crystals" Chapter 3 in Advanced in Organic Synthesis, 12, 81-116, **2018**, Ed. Atta-ur-Rahman, Bentham Science Publishers, eISBN: 978-1-68108-680-4; ISBN: 978-1-68108-683-5; ISSN: 1574-0870 (Print); ISSN: 2212-408X (Online). DOI:10.2174/97816810868041181201.
5. **Carlescu I**., Popa M., Ch. 4 "Bio-Inspired Glycoconjugate Inhibitors of Influenza Virus" in "Medical Applications of Polymers", American Scientific Publishers, **2011**, USA, pg. 121-145, ISBN 1-58883-195-7

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. **Cârlescu I.**, Cârlescu P. M., Arta prezentării rezultatelor științifice, Ed. Pim, Iași, **2016**, ISBN 9-786061-33225-0.
2. **Cârlescu I.**, *Biochimie*. Aplicații, Ed. Pim, Iași, **2016**, ISBN 978-606-520-870-4.
3. **Cârlescu I.**, Vâţă M., Testarea calitativă a compuşilor biochimici, Ed. Pim, Iaşi, **2010**, ISBN 978-606-13-967-0.

D. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Blaga A.C., Carlescu I., Mamaliga I., Dragoi E.N., Advances in the Biosynthetic Production of Daunomycin: Genetic, Metabolic, and Process Engineering Strategies, Fermentation-Basel, 12(7), 2026, DOI10.3390/fermentation12070304.
2. Berladean I., Epure, EL., Simion G., Simion A., *Carlescu I., Boussoualem Y., Duponchel B., Hurduc N., Daoudi, A., Chiral unsymmetrical bent-shaped dimers exhibiting cholesteric phases: synthesis, characterisation and liquid crystalline properties, Liquid Crystals, 52, 2025, DOI10. 10.1080/02678292.2025.2489434
3. Ciobanu C., Epure EL., Soroaga L., Simion A., Lisa G., *Carlescu, I., Effects of the Central Unit Structure, Lateral Substitution and Symmetry on the Mesomorphic Behavior of Some Bent-Core Azoester Derivatives, ChemistryOpen, 14, 2025, DOI10.1002/open.202400454
4. Berladean I., Epure E.L., Ciobanu C.I., *Carlescu I., Boussoualem Y., Danjou P.E., Bhat V, Duponchel B., Hurduc N., Daoudi A., Novel antiferroelectric materials with resorcinol-based symmetrical fluorinated bent-core mesogens, Journal of Molecular Liquids, 388, 2023, DOI10.1016/j.molliq.2023.122753.
5. Dragoi E.N., Carlescu I., Puf R., Vasiliu T., Epure E.L., Neuro-Evolutive Modeling of Transition Temperatures for Five-Ring Bent-Core Molecules Derived from Resorcinol, Crystals, 13(4), 2023, DOI10.3390/cryst13040583.
6. Epure E.L., Lisa G., Simion G., Simion A., Ciobanu, C.I., *Carlescu I., Thermal behavior, decomposition mechanism by TG/MS/FTIR technique and theoretical study of some symmetric and asymmetric bent-core liquid crystals based on 2,7-dihydroxynaphthalene, Journal of thermal analysis and calorimetry, 147(21), 12033-12045, 2022, DOI10.1007/s10973-022-11378-5.
7. Tripathi A.S.M., Kondratenko K., Duponchel B., Hurduc N., Carlescu I., Boussoualem Y., Daoudi A. Orientation in large-area semiconducting 2-amino-anthracene thin films fabricated by dynamic floating film transfer method, Thin Solid Films, 742, 139044, 2022, DOI: 10.1016/j.tsf.2021.139044.
8. Ciobanu C. I., Berladean I, Epure E.-L., Simion A, Lisa G., Boussoualem Y., *Carlescu I. Mesomorphic and Thermal Behavior of Symmetric Bent-CoreLiquid Crystal Compounds Derived from Resorcinol andIsophthalic Acid, 11, 10, 2-15, 2021, DOI: 10.3390/cryst11101215.
9. Kondratenko K., Carlescu I., Danjou P.-É., Boussoualem Y., Simion Aurel, Duponchel B., Blach J.-F., Legrand C., Hurduc N., Daoudi A. Novel organic semiconductors based on2-amino-anthracene: Synthesis, charge transport andphoto-conductive properties, Physical Chemistry Chemical Physics, 23, 25, 13885-13984, 2021. DOI: 10.1039/d1cp01427g.
10. Carlescu I., Simion A, Epure EL, Lisa G, Scutaru D. Self-assembled star-shaped liquid crystals based on 1,3,5-trihydroxybenzene with pendant alkyloxylated azobenzene arms, Liquid Crystals,47, 12, 1852-1862, 2020. DOI: 10.1080/02678292.2020.1747648.
11. Carlescu I., Simion A, Bele A., Carlescu P. M., Herghiligiu C.M., Scutaru D, Dielectric properties of some bent core liquid crystals, Environmental Engineering and Management Journal, 17, 4, 951-958, 2018. DOI: 10.30638/eemj.2018.095.
12. Simion A., Carlescu I., Lisa G., Scutaru D, Unsymmetrical bent-core liquid crystals based on resorcinol core, Revista de Chimie, 67, 3, 446-450, 2016.

13. Ciobanu C. I., Drochioiu G., Carlescu I., Lisa G., Antoci V., Vasilache V, Scutaru D., Thermal behaviour of some bent-core resorcinol derivatives with azo-type spacers and variable flexible chain, Letters in Organic Chemistry, 13(2), DOI: 10.2174/1570178612666150916010459, 156-161, 2016.
14. Bulai E. R., Carlescu I., Scutaru D., Synthesis and characterisation of liquid crystalline compounds based on symmetric 1, 3, 4 oxadiazole core, Revista de Chimie, 66, 4, 439-443, 2015.
15. Simion A., Huzum C. C., Carlescu I., Lisa G., Balan M., Scutaru D., Unsymmetrical banana-shaped liquid crystalline compounds derived from 2, 7-dihydroxynaphtalene, Journal of the Serbian Chemical Society, DOI: 10.2298/JSC140725126S, 80 (5), 673-683, 2015.
16. Ciobanu C., Carlescu I., Lisa G., Scutaru D., Symmetric bent-core liquid crystals of some schiff bases containing azo linkage, Croatica Chemica Acta, DOI: 10.5562/cca2150, 87 (1), 7-16, 2014.
17. Onofrei R.M., Carlescu I., Epure L., Scutaru D, Synthesis and liquid crystalline properties of some esters of 4-ferrocenyl-4'-hydroxyazobenzene, Acta Chimica Slovenica, 60, 3, 604-616, 2013.
18. Huzum C. C., Carlescu I., Lisa G., Scutaru D., New cholesteryl containing bent core liquid crystals, Journal of the Serbian Chemical Society, DOI: 10.2298/JSC120810114H, 78, 5, 669-680, 2013.
19. Ciobanu C., Carlescu I., Lisa G., Scutaru D., Synthesis and mesomorphic properties of some bent-core schiff bases containing azo linkage, Revista de chimie, 64 (3), 249-253, 2013.
20. Huzum C. C., Carlescu I., Lisa G., Scutaru D., Nonsymmetric liquid crystalline cholesteric dimers derived from resorcinol, Revista de chimie, 64 (1), 60-67, 2013.
21. Simion G., Carlescu I., Lisa G., Scutaru D., Synthesis and characterization of some liquid crystalline compounds based on a 2, 7-dihydroxynaphtalene core, Revista de Chimie 63(4), 407-411, 2012.
22. Onofrei R. M., Carlescu I., Lisa G., Silion M., Hurduc N., Scutaru D., Synthesis and liquid crystalline behavior of some monosubstituted ferrocene containing Schiff bases, Revista de Chimie 63(2), 139-145, 2012.
23. Iuganu D., Carlescu I., Lisa G., Scutaru D., Symetric bent-core liquid crystals based on 1, 3-bis-(4'-hydroxyphenylazo) benzene core, Revista de Chimie 63(5), 501-506, 2012.
24. Simion G., Carlescu I., Lisa G., Scutaru D., Asymetric bent-core liquid crystals based on 2, 7-dihydroxynaphtalene core with an azo and esteric connecting groups, Studia Universitatis Babes-Bolyai Chemia (4), 75-88, 2011.
25. Iuganu D., Carlescu I., Lisa G., Scutaru D., Asymmetric bent-core liquid crystals based on 1, 3-bis-(4'-hydroxyphenylazo)benzene central core, Studia Universitatis Babes-Bolyai Chemia (4), 75-88, 2011.
26. Lisa G., Cioanca E.-R., Tudorachi N., Carlescu I., Scutaru D.. Thermal Degradation of Some [1, 3, 4]Oxadiazole Derivatives with Liquid Crystalline Properties, Thermochimica Acta, DOI: 10.1016/j.tca.2011.07.013, 524 (1-2), 179-185, 2011.
27. Cioanca E.-R., Epure E. L., Carlescu I., Lisa G., Wilson D., Hurduc N., Scutaru D., Hockey Stick Liquid Crystals Baed on a 2, 5-Asymetric Disubstituted [1, 3, 4]Oxadiazole Core,

Molecular Crystals and Liquid Crystals, DOI: 10.1080/15421406.2011.556444, 537, 51-63, 2011.
28. Cioanca E.-R., Carlescu I., Wilson D., Scutaru D., Liquid Crystalline Schiff Bases Containing a 2, 5-(p-aminophenyl)-[1, 3, 4]Oxadiazole Bent Core, Revista de Chimie 61(12), 1158-1163, 2010.
29. Moleavin I., Grama S., Carlescu I., Scutaru D., Hurduc N.. Photosensitive micelles Based on Polysiloxanes Containing Azobenzene Moieties, Polymer Bulletin, DOI: 10.1007/s00289-010-0247-4, 65(1), 69-81, 2010.
30. Carlescu I., Osborn H. M. I., Desbrieres J., Scutaru D., Popa M., Synthesis of poly(aspartimide) based bio-glycoconjugates, Carbohydrate Research, DOI: 10.1016/j.carres.2009.08.034, 345(1), 33-40, 2010.
31. Carlescu I., Scutaru D., Popa M., Uglea C., Synthetic sialic-acid-containing polyvalent antiviral inhibitors, Medicinal Chemistry Research, DOI: 10.1007/s00044-008-9139-7, 18 (6), 477-494, 2009.
32. I. Cârlescu, G. Lisa, D. Scutaru. Thermal stability of some ferrocene containing Schiff bases, Journal of thermal analysis and calorimetry, 91(2), pp. 535-540, 2008, DOI10.1007/s10973-007-8450-8.
33. I. Cârlescu, A.-M. Scutaru, D. Apreutesei, V. Alupei, D. Scutaru. The liquid crystalline behaviour of ferrocene derivatives containing azo and imine linking groups, Liquid Crystals, 34, 7, pp. 775-785, 2007, DOI10.1080/02678290701343190.
34. I. Cârlescu, A.-M. Scutaru, D. Apreutesei, V. Alupei, D. Scutaru. The liquid crystalline properties of some ferrocene containing Schiff bases, Applied Organometallic Chemistry, 21, 8, pp. 661-669, 2007, DOI10.1002/aoc.1242.
35. I. Cârlescu, N. Hurduc, D. Scutaru, O. Cătănescu, L.-C. Chien. Monosubstituted ferrocene-containing liquid crystals, Molecular Crystal and Liquid Crystal, 439, pp. 107-123, 2005, DOI10.1080/15421400590956298.
36. S. Alăzăroaie, V. Toader, I. Cârlescu, K. Kazmierski, D. Scutaru, N. Hurduc, C. I. Simionescu. Synthesis and thermal behavior of some polyethers containing azo- and bis-(azobenzenic) mesogens, European Polymer Journal, 39, pp. 1333-1339, 2003, DOI10.1016/S0014-3057(03)00002-8.

E. Lucrări indexate BDI

1. I. Berladean, I. Cârlescu, Y. Boussoualem, A. Daoudi, N. Hurduc, Influence of fluorine lateral substitution on photoisomerization process of azobenzene bent-core liquid crystal, Bulletin of Romanian Chemical Engineering Society, Vol 11, 2, 2024.
2. I. Berladean, A. Simion, I. Carlescu, N. Hurduc, Synthesis and characterization of azobenzene alkylated medogen with fluorine substituent, Buletinul IPI, Vol 70 (74), 1, 2024, DOI: 10.5281/zenodo.11146121.
3. V. Pricop, E. Sava, A. Cișlaru, C. Măluțan, A. Simion, I. Cârlescu, Synthesis and characterization of intermediate azobenzene derivatives with terminal polar groups, Buletinul IPI, Vol 65 (69), 4, 2019.

4. G. Simion, D. Iuganu, I. Carlescu, D. Scutaru. Synthesis and characterization of some asymetric liquid crystals based on a 2, 7-dihydroxynaphtalene core, Buletinul IPI, Tom LV (LIX), pp 181 – 190, 2011.
5. R.-M. Aioanei, I.Cârlescu, D. Scutaru. Ferrocene Containing Liquid Crystals. Buletinul IPI, Tom LV (LIX), pp 181 – 190, 2009.
6. I. Cârlescu, A.-M. Scutaru, D. Apreutesei, V. Alupei, D. Scutaru. Synthesis of ferrocene derivatives possesing liquid crystalline properties. Buletinul IPI, Tom LI (LV), pp 25 – 40, 2005.
7. E. Ţăran, M. Lăzărescu, B. Donose, I. Cârlescu, N. Hurduc. Atom transfer radical polymerization. 1. Investigation of the catalytic system based on Cu(0) and 2, 2'-bypiridy, Buletinul IPI, Tom 49(3-4), pp. 63-70, 2004.
8. I. Cârlescu, O. Cătănescu, D. Scutaru. Ferrocene-containing liquid crystals, Buletinul IPI, Tom XLIX, (LIII), fascicola 3-4, pp. 21-27, 2003.
9. I. Cârlescu, O. Cătănescu, V. Toader, N. Hurduc, D. Scutaru. Synthesis and characterization of ferrocene containing liquid crystals, Buletinul IPI, Tom XLIX, (LIII), fascicola 5, pp. 137-146, 2003.

F. Lucrări publicate în volume de conferințe cu referenți (neindexate)

1. Carlescu, R. Avram, A.M. Gheorghita, D. Zaharia, A. Simion, I. Berladean. C.I. Ciobanu, G. Lisa, "Influence of lateral substituents and long terminal flexible chains on the mesomorphic properties of seven-ring symmetrical bent-shaped derivatives", 17th European Conference on liquid crystals, Praga, Cehia, 1-6 iunie 2025.
2. I. BeIrladean, EL Epure, G. Simion, A. Simion, I. Carlescu, Y. Boussoualem, B. Duponchel, N. Hurduc, A. Daoudi, "Chiral unsymmetrical bent-shaped derivatives exhibiting nematic cholesteric phases: synthesis, characterization and liquid crystalline properties", 23rd Romanian International Conference on Chemistry and Chemical Engineering, Constanța-Mamaia, Romania 4-7 September, 2024
3. C.I. Ciobanu, E.L. Epure, G. Lisa, I. Carlescu, Influence of position of methyl substituent on the liquid crystalline and photoswitching behaviour in bent-core compound, Materials, Methods&Technologies, 17-20 august, Burgas, Bulgaria, 2023.
4. I. Berladean, I. Carlescu, N. Hurduc, Y. Boussoualem, A. Daoudi, "New ferroelectric material with fluoro-substituted bent shape molecules", 6th International Conference on Chemical Engineering, Innovative Materials and Processes for a Sustainable Development, October 5-7,2022 in Iasi, Romania.
5. Y. Boussoualem, I. Carlescu, K. Kondratenko, N. Hurduc, C.I. Ciobanu, A. Daoudi, Etude d'un nouveau cristal liquide a noyau coude, Colloque Francophone sur les Cristaux Liquides,3-6 Septembre 2019.
6. A. Simion, I. Carlescu, D. Scutaru. Symmetric bent-core liquid crystals based on a phloroglucinol core, International Conference of Applied Sciences, Chemistry and Chemical Engineering 9th Edition, June 04th – 06th 2015, Bacau, Romania.
7. A. Simion, I. Carlescu, D. Scutaru. Asymmetric resorcinol bent-core liquid crystals with terminal alkyloxy even chain: synthesis and characterization, International Conference of

Applied Sciences, Chemistry and Chemical Engineering 8th Edition, May 07th – 09th 2014, Bacau, Romania.

8. A. Simion, I. Carlescu, D. Scutaru. New bent-core liquid crystals based on resorcinol core and azobenzene mesogen unit, International Conference of Applied Sciences, Chemistry and Chemical Engineering 8th Edition, May 07th – 09th 2014, Bacau, Romania.
9. G. Simion, D. Iuganu, I. Carlescu, D. Scutaru. The synthesis and characterization of acid chlorides with liquid crystalline properties, International Conference of Applied Sciences, Chemistry and Chemical Engineering Fifth Edition, April 28th-30th 2011, Bacau, Romania.
9. I. Cârlescu, H.M.I. Osborn, C. Uglea, D. Scutaru, M. Popa. Designing of new bioconjugates antiviral drugs, First International Conference on Multifunctional, Hybrid and Nanomaterials, Tours, France, 15-19 March 2009.
10. S. Grama, A.M. Resmeriță, A. Raicu, I. Cârlescu, N. Hurduc, Association phenomena and photo-cromical study of azopolisiloxanes modified with donor-acceptor groups, International Conference on Materials Science and Engineering, Brașov, România, 26-28 February 2009.
11. I. Cârlescu, H.M.I. Osborn, M. Popa , D. Scutaru, Synthesis of polyaspartimide-sialic acid conjugates with potential antiviral activity, International Conference on Biology and Chemistry of Sialic Acids, ISBN 978-5-91599-009-7, Moscow- St. Petersburg, Russia, 21-26 July 2008.
12. I. Cârlescu, N. Hurduc, D. Scutaru, O. Cătănescu, L.-C. Chien. Monosubstituted ferrocene-containing liquid crystals, 20th International Liquid Crystal Conference, Ljubljana, Slovenia, 4-9 July 2004.
13. I. Cârlescu, D. Apreutesei, G. Lisă, N. Hurduc, D. Scutaru. La stabilite thermique des cristaux liquides qui contient du ferrocene dans la molecule, Troisieme Coloque Franco-Roumain de Chimie Applique, Slănic Moldova, pp. 597-600, 2004, ISBN 973-8392-36-5.
14. L. Petraru, M. Romanic, I. Cârlescu, D. Scutaru, G. Sauvet, N. Hurduc. Azo- group containing polysiloxanes with conformational photocontrol, 6th Austrian Polymer Meeting, Vienna, Austria, 2003.

G. Contracte de cercetare/granturi

1. Noi materiale antiferoelectrice de tip bent-core pe bază de rezorcinol cu potențiale aplicații electro-calorice, Granturi Naționale de Cercetare – ARUST, GnaC2023_280/2024, director de grant conf.dr.ig. Irina Cârlescu
2. Granturi interne – Publicații, GI/P30/2021, director de grant conf.dr.ing. Irina Cârlescu
3. Filme azo-polimerice nanostructurate utilizate drept suport în culturi celulare, PN-III-P4-ID-PCE-2016-0508, director proiect prof.dr.ing. Nicolae Hurduc
4. Cristale lichide de tip bent-core cu potenţială aplicabilitate în microelectronică, Proiect PN II – IDEI_356 / 2009, director proiect prof.dr.ing. Dan Scutaru
5. Noi formulari polimere pentru eliberarea controlată și/sau la țintă a principiilor biologic active – Proiect CEEX 5921/2006, director de proiect prof.dr.ing. Marcel Popa
6. Noi materiale pe bază de hidraţi de carbon – Proiect CEEX PD/2005, director de proiect prof.dr.ing. Lucian Mircea Rusnac
7. Cristale lichide hetero-organice pentru tehnologii avansate, Grant 33371 tema 40/2004, director proiect prof.dr.ing. Dan Scutaru

8. Sinteza şi caracterizarea de noi cristale lichide mic moleculare pe bază de ferocen pentru micro-electronică, Grant 35259 –tema 28/2001, Grant 35479 –tema 31/2002, director proiect prof.dr.ing. Dan Scutaru.

octombrie 2026 **Semnătura:**

LISTA LUCRARI *E.T. Iacob Tudose*

Teza M.Sc.: Tudose E.T. *Experimental investigation of Taylor bubble acceleration mechanism in slug flow*, M.A.Sc. thesis, Department of Chemical Engineering and Applied Chemistry, University of Toronto, 1997.

Teza de doctorat:*„An experimental study of buoyant-thermocapillary convection in a rectangular cavity*", 203pg., 2002, **University of Toronto**, Department of Chemical Engineering, Toronto, Canada
Titlul: DOCTOR in Inginerie Chimică, diploma seria – nr.-, eliberată de Universitatea din Toronto, la data de 21.11.2002, Atestat de Ministerul Educaţiei, cercetării şi Tineretului România, Seria G, Nr.0000456, 22.09.2004.

ISI

1. **Tudose E.T.** , On the modeling of solid materials drying in fixed beds. I. Drying with a thermal gas agent, Revue Roumaine de Chimie, v.40 (7-8), p.791-803, 1995.
2. Petrescu S., **Tudose E.T**., Delibaş C., Mass transfer accompanied by chemical reaction at sublimation, Hungarian Journal of Industrial Chemistry, v.25, p.185-189, 1997.(https://hjic.mk.uni-pannon.hu/PDF_OCR.html#)
3. Kawaji M., DeJesus J.M., **Tudose E.**, Investigation of flow structures in vertical slug flow, Nuclear Engineering and Design, v.175, p.37-48, 1997.
4. **Tudose E.T**., Kawaji M., Experimental investigation of Taylor bubble acceleration mechanism in slug flow, Chemical Engineering Science, v.54, p.5761-5775, 1999.
5. **Tudose E.T**., Slug flow – radial displacement in the Taylor bubble acceleration mechanism, Revue Roumain de Chimie, vol.49, no.3-4, pg. 399-406, 2004.
6. Tudose R., **Iacob Tudose E.T**., Petrescu S., Effective Wood Diffusion Coefficients, Cellulose Chemistry and Technology, vol.40, no. 9-10, p.749-753, 2006.
7. **Iacob Tudose E.T**., Study of Taylor bubble eccentricity on the movement speed in slug biphasic flow, Revista de Chimie, 2007.
8. Ciprian Constantin Negoescu, Nicoleta Bunduc, **E.T. Iacob Tudose**, Ioan Mamaliga, Aspects on polymer-solvent equilibrium and diffusion in polymeric membranes, Environmental Engineering and Management Journal, vol.12, no.8, p.1583-1593, 2013.
9. Ioan Mămăligă, Doru Sidor, C Condurat, **E.Iacob Tudose**-Hydrodynamics and mass transfer coefficients for a modified Raschig ring packed column, Heat and Mass Transfer, vol.50, p.1385-1392, 2014.
10. **E.T. Iacob Tudose**, E.David, M.S. Secula, I. Mamaliga-Adsorption equilibrium and effective diffusivity in cylindrical alumina particles impregnated with calcium chloride, Environmental Engineering and Management Journal, vol. 14, no.3, p.503-508, 2015.
11. M.Popa, I.Mamaliga, S.Petrescu. **E.T.Iacob Tudose** – Axial dispersion study in fixed bed columns, Revista de Chimie, no.3, vol.66, p. 668-672, 2015.
12. M.Popa, **E.T.Iacob Tudose**, I.Mamaliga – Mass transfer in solid-liquid extraction at high solute concentrations, EEMJ,vol. 17, No. 4, 755-1020, 2018

13. **E.T.Iacob Tudose**, C.Zaharia - Textile wastewater treatment on a spinning disc reactor: characteristics, performances and empirical modeling, Applied Sciences, 10(23), 8687-8704, 2020.

14. **E.T. Iacob Tudose** - An experimental study on spinning disc key parameters influencing its performance, Studia UBB Chemia 2021, 66 (4),297-308. DOI:10.24193/subbchem.2021.4.22
15. C.Zaharia, F Leon, S Curteanu, **E.T. Iacob Tudose** - Textile wastewater treatment in a spinning disc reactor: improved performances, modeling and SVM optimization, *Processes* 2021, *9*(11), 2003; https://doi.org/10.3390/pr9112003
16. **E.T. Iacob Tudose**, I. Mamaliga, I., A.V. Iosub - TES Nanoemulsions: A Review of Thermophysical Properties and Their Impact on System Design. *Nanomaterials* 2021, *11*, 3415. https://doi.org/10.3390/nano11123415.
17. **E.T.Iacob Tudose,** C.Zaharia, N.Melniciuc-Puica, Reduction of water color in a spinning disc reactor, Applied Sciences, 12(20), 2022. 10.3390/app122010253
18. **E.T.Iacob Tudose,** Two-phase flow in a Sulzer column, Studia UBB Chemia, LXVIII, 2, 2023, p.169-184. DOI:10.24193/subbchem.2023.2.11
19. I Barabulica, MS Secula, AM Asoltanei, **ET Iacob-Tudose**, G.Lisa, Experimental Study on the Reaction of Magnesium in Carbon Dioxide and Nitrogen Atmosphere, ChemEngineering 8 (2), 41, 2024. 10.3390/chemengineering8020041
20. A.M.Asoltanei, **ET Iacob-Tudose**, MS Secula, I Mamaliga, Mathematical models for estimating diffusion coefficients in concentrated polymer solutions from experimental data, Processes, 12(6), 2024. 10.3390/pr12061266
21. Barabulica I., Secula M.S., Asoltanei A.M., **Iacob Tudose E.T**., Lisa G., Mamaliga I., Experimental Study on the Reaction of Magnesium in Carbon Dioxide and Nitrogen Atmosphere, ChemEngineering 2024, *8*(2), 41; https://doi.org/10.3390/chemengineering8020041
22. Barabulica I., Secula M.S., **Iacob Tudose E.T**., Mamaliga I.Experimental Study on the Influence of Magnesium on the Separation of Carbon Dioxide from Gas Mixtures with Nitrogen by Combustion Processes, Processes 2025, 13(7), 2054. https://doi.org/10.3390/pr13072054

BDI

1. L.Horoba, I.Ibănescu, E.T. Tudose - Uscarea materialelor fibroase în curenţi de înaltă frecvenţă. I. Variaţia presiunii totale a fazei gazoase din material, Celuloză şi hârtie, anul 46, nr.1, p.18-24, 1997.
2. M. Popa, E. T. Iacob-Tudose, I.Mămăligă, Solid-liquid extraction – an old but still future promising method- Buletinul Institutului Politehnic Iaşi, Secţia Chimie si Inginerie Chimică, vol.60 (63), nr. 1, 2013.

3. M. Popa, E. T. Iacob-Tudose, I. Mămăligă,Leaching kinetics of a fluidized bed with high salt concentration- Buletinul Institutului Politehnic Iaşi, Secţia Chimie Şi Inginerie Chimică, Vol. 63 (67), Nr. 1, 2017.
4. I.O. Forţu, R. Sereteanu, E. T. Iacob Tudose, I. Mămăligă, Diffusion coefficients from sorption experimental data- Buletinul Institutului Politehnic Iaşi, Secţia Chimie Şi Inginerie Chimică, Vol. 63 (67), Nr. 2, 2017.
5. M.Popa, E.Iacob Tudose, I.Mamaliga, Mass transfer at the extraction from porous slabs Bulletin of Romanian Chemical Engineering Society, vol.4, nr.2, 2017, pg.63-78.ISSN 2360-4697.
6. Iacob Tudose E.T., Observations on the Spinning Disc Micromixing Characteristics, Bulletin of Romanian Chemical Engineering Society, vol. 67(71), nr.2, 2021.
7. Zaharia C., Iacob Tudose E.T., Spinning disc technology for textile wastewater treatment – characteristics, modeling and optimization study, Bulletin of Romanian Chemical Engineering Society, vol. 68(72), nr.3, 2022
8. E.T. Iacob Tudose - Modeling of noncatalytic gas-solid reactions. The reaction zone thickness, Bulletin of Romanian Chemical Engineering Society, vol. 68(72), nr.4, 2022.
9. E.T. Iacob Tudose, M.Kawaji - Bubble shape influence on slug flow acceleration mechanism Bulletin of Romanian Chemical Engineering Society, vol. 69(73), nr.1, 2023.

Lucrări publicate în volumele conferinţelor
ISI

1. Hasanein H.A.,**Tudose GT+.**, Wong S., Malik M., Esaki S., Kawaji M., *Slug flow experiments and computer simulation of slug length distribution in vertical pipes*, AIChE Symposium Series, no.310, v.92, p.211-219, Heat Transfer-Houston, 1996.

2. **Tudose E.T.,** Kawaji M., *An experimental investigation of the onset of oscillations in thermocapillary-buoyant flows in a rectangular cavity*, Proc. of the 34th National Heat Transfer Conference, August 20-22, 2000, Pittsburgh, Pennsylvania, 2000.

3. **Tudose E.T.,** Kawaji M., *Surface temperature patterns in thermocapillary convection in a rectangular cavity – an experimental study*, Proc. of the 35th National Heat Transfer Conference, June 10-12, Anaheim, California, 2001.

4. **Tudose E.T.,** Kawaji M. Free surface deformation in oscillatory thermocapillary convection in a rectangular cavity, Proc. of the 12th International Heat Transfer Conference, Nice, France, p.471- 476, 2002.

5. **E T Iacob Tudose** and C Zaharia-Spinning Disc Technology – Residence Time Distribution and Efficiency in Textile Wastewater Treatment Application, IOP Conference Series: Materials Science and Engineering,Vol 374, Euroinvent ICIR 2018, 17–18 May 2018, Iasi, Romania

6. D. C. Condurat, D. Sidor, **E. Iacob Tudose**, I. Mămăligă, Hydrodynamic characteristics and mass transfer coefficients for a modified packing used in absorption columns. International Conference Chimia 2012 "New Trends In Applied Chemistry" May 24 – 26, 2012, Constanta, Romania

7. Marcela Popa, **Eugenia Teodora Iacob Tudose**, Ioan Mămăligă, Doina Liliana Horoba, Stelian Petrescu , Solid-liquid extraction in fixed bed, Zilele facultăţii de inginerie chimică şi protecţia mediului, Iaşi, 17-19 noiembrie 2010.

8. **E T Iacob Tudose -** Stability of emulsions obtained by vapor condensation–IOP Conference Series: Materials Science and Engineering, Volume 877, International Conference on Innovative Research - ICIR EUROINVENT 2020 21-23 May 2020, Iasi, Romania, 10.1088/1757-899X/877/1/012006

Neindexate

1. **E.T.Iacob Tudose**, MS Secula , Methylene Blue Adsorption in a Rotating Bed Reactor, Bulletin of Romanian Chemical Engineering Society, 2024, ISSN2360-4697
2. **Tudose E.T.**, Kawaji M., *An experimental study of thermocapillary convection in a thin horizontal liquid layer in a rectangular cavity under normal gravity with and without controlled vibration*, 50th International Astronautical Congress, Amsterdam, section J4 – Scientific results from ground-based experiments, Session 08. (http://www.iafastro.com/archives/pap99/iaf-p99/99_pIAF-J.htm)
3. **Tudose E.T.**, Kawaji M., *An experimental study of oscillatory, thermocapillary convection in a rectangular cavity*, Spacebound 2000, May 14-17 2000, Vancouver, B.C., Canada.
4. S.Petraru, **E.T.Iacob Tudose,** Nanoemulsions: methods of preparation and characteristics, Al 13-lea Simpozion Internațional de Produse Cosmetice și Aromatizante ”COSMETOLOGIA – ESENȚĂ DE FRUMOS ȘI SĂNĂTATE”, IAȘI, 4 – 7 iunie 2019, volumul conferintei

4. **E.T. IacobTudose** – Dispersion in a two-phase flow Sulzer column, prezentare orală ICCE2020, 5th International Conference on Chemical Engineering, Innovative Materials and Processes, 28-30 October 2020, Iasi

Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS (necotate ISI buletine, anale etc.).

1. **Tudose E.T.,** Two-phase flow – Hydrodynamics of the slug flow regime, Memoriile Sectiilor Stiintifice, Seria IV, Tomul XXVI, Editura Academiei Romane, Bucuresti, 2004.
2. **E.T.Iacob Tudose,** Flow visualization techniques applied in thermocapillary convection:photochromic dye activation and particle image velocimetry, Caiete iesene.Revista de informare si dezbatere tehnico-stiintifica,nr.1, ian.2009
3. I. Munteanu**, ET Iacob Tudose –** laboratory configurations for PCM-TES materials- a review Journal of Advanced Thermal Science Research, acceptata spre publicare.

Conferinţe invitate/ lucrări de sinteză prezentate la manifestări organizate sub egide ştiinţifice recunoscute, lucrări communicate

1. **ET Tudose** , Kawaji M. – Buoyant thermocapillary convection in a rectangular cavity – oscillatory multicellular instability, International Marangoni Association Congress, IMA2004, 14-17 July 2004, Brussels, Belgium.
2. **ET Tudose** , Kawaji M. – Liquid temperature frequency analysis in buoyant thermocapillary convection in a rectangular cavity, International Marangoni Association Congress, IMA200414-17 July 2004, Brussels, Belgium.
3. **ET Iacob Tudose-** Modeling of noncatalytic gas-solid reactions. The reaction zone thickness, 18 th International Congress of Chemical and Process Engineering, CHISA 2008, 24th-28th August 2008, Prague, Czech Republic.
4. V.D.Diaconescu, M.Ferariu, E.T. Iacob Tudose – Analiza spectral[a aliajelor din pompe ;Injectoare cu sistemul HITACHI S3400, Z.F.I.C.P.M., Ed.VIII, "MATERIALE ȘI PROCESE INOVATIVE", Iasi, 2011.
5. **E.T.Iacob Tudose**, C.Zaharia- Spinning disc technology – residence time distribution and efficiency in textile wastewater treatment application, EuroINVENT2018, Iasi, 17-18 mai 2018.
6. M.Popa, I.Mamaliga, **E.T.Iacob Tudose-**Mass transfer in solid-liquid extraction at high solute concentrations- 3rd International Conference on Chemical Engineering/Innovative Materials and Processes/ICCE2016

7. **E.Iacob Tudose**-Hydrodynamics on a spinning disc reactor- 4th International Conference on Chemical Engineering/Innovative Materials and Processes/ICCE2018 – oral presentation

8. C.Zaharia, **E.Iacob Tudose** – Spinning disc technology for textile wastewater treatment – characteristics, modeling and optimization study, ICCEM2019.

9. S.Petraru, **E.T.Iacob Tudose,** Nanoemulsions: methods of preparation and characteristics, Al 13-lea Simpozion Internațional de Produse Cosmetice și Aromatizante "COSMETOLOGIA – ESENȚĂ DE FRUMOS ȘI SĂNĂTATE", IAȘI, 4 – 7 iunie 2019.
10. **E.T. Iacob Tudose -** Stability of emulsions prepared by vapor condensation – Euroinvent 2020.
11. E.T. IacobTudose – Observations on the spinning disc micromixing characteristics, poster ICCE2020, 5th International Conference on Chemical Engineering, Innovative Materials and Processes, 28-30 October 2020, Iasi
12. E.T. IacobTudose – Non-intrusive visualization techniques for flow, temperature and concentration fields, poster ICCE2020, 5th International Conference on Chemical Engineering, Innovative Materials and Processes, 28-30 October 2020, Iasi
13. E.T. Iacob Tudose, S. Petraru - A new method to obtain W/O and O/W emulsions,poster ICCE2020, 5th International Conference on Chemical Engineering, Innovative Materials and Processes, 28-30 October 2020, Iasi

Elaborare carti/monografii/tratate (capitol carte)

1. LD. Horoba, I. Mămăligă, **ET Iacob Tudose**, A.I. Moise, C. Lisă, M.T. Nechita- Fenomene de transfer și operații unitare – Îndrumar de proiectare , Editura Universității tehnice "GheorgheAsachi" din Iași, 2023.

2. Fenomene de transfer şi operaţii de difuziune –S.Petrescu, I.Mămăligă, L.Horoba, A.Moise, **E.Iacob Tudose**, Editura Ecozone, Iaşi, 2011, p.505, ISBN 978-973-7645-78-4.
3. E.T.Iacob-Tudose, *Spinning disc reactor technology for environmental chemical processing: design and environmental applications* (chapter 4), in: C.Zaharia (Ed.), Current topics, concepts and research priorities in environmental chemistry (III), 65-82, Editura Universității „Alexandru Ioan Cuza" Iasi, 2014, ISBN 978-973-703-797-8. 'Al.I.Cuza' Universitary Publishing House, Iasi, Romania

Brevete invenţii

1. Tudose R.Z., Delibaş C., Tudose E.T., Asandei D.A., Romanescu C., Bercu E., Rusu D., Uscător cu regimuri termice diferenţiate, Brevet 110661 din 03.01.1996.
2. Tudose E.T., Asandei D.A., Rusu D., Tudose R.Z., Delibaş C., Romanescu C., Coloană pentru extracţie lichid-lichid, Brevet 110401 din 30.01.1996.
3. Asandei D.A., Tudose R.Z., Delibaş C., Rusu D., Romanescu C., Tudose E.T., Coloană de separare prin extracţie lichid-lichid, brevet 110402 din 30.01.1996.
4. Tudose E.T., Tudose R.Z., Rusu D., Delibaş C., Romanescu C., Asandei D.A., Coloană mecanică pentru extracţie lichid-lichid, Brevet 110403 din 30.01.1996.
5. Asandei D.A., Romanescu C., Tudose R.Z., Tudose E.T., Rusu D., Delibaş C., Extractor mecanic cu contact diferenţial, Brevet 110404 din 30.01.1996.
6. Tudose R.Z., Lisă C., Delibaş C., Tudose E.T., Agitator pentru amestecarea intensivă a mediilor lichide, Dosar OSIM nr. 95-00413 din 24.02.1995.

Contracte de cercetare.

1. Grant NSERC (CONSILIUL NATIONAL DE CERCETARE CANADA)-membru, 1995-1996, *Studiul experimental al mecanismului de accelerare a bulelor Taylor in curgerea slug*, M.Sc. thesis, Universitatea din Toronto, Canada
2. Grant CSA (AGENTIA SPATIALA CANADIANA)-membru 1999-2001, *Studiul experimental al instabilitatilor in curgerea termocapilara*, Ph.D. thesis, Universitatea din Toronto, Canada
3. Grant CNCSIS 2006-2007-**director**, *Caracterizarea hidrodinamica a curgerii bifazice de tip slug (piston)-studiu analitic si experimental*
4. Grant CNCSIS nr.27637/14.03.2005 cod 422, tema 10 – membru.
5. Proiect intern UTI, TUIASI PI/GI33- **director.**

Premii, distincţii

– Premiu special de excelenţă la conferinţa Spacebound 2000 organizată de Agenţia Spaţială Canadiană, Vancouver, Canada, 2000.

9.09.2026 Eugenia T. Iacob Tudose

LISTA DE LUCRĂRI

Conf. Univ. Dr. Fiz. Ing. CAZACU MARIUS MIHAI

I. Teza de doctorat

Titlul tezei de doctorat: *Contribuţii la implementarea primei reţele LIDAR la scară naţională pentru caracterizarea optică a aerosolilor atmosferici*, Universitatea "Alexandru Ioan Cuza" din Iasi, Data susținerii: 17.12.2010, Conducătorul de doctorat: Prof. Dr. DOROHOI Dana-Ortansa. Teza susținută pentru obținerea Titlului științific de Doctor in Fizică în baza ordinului MECTS nr. 4387/06.06.2011

II. Lista de lucrări publicate în jurnale ISI (cu factor de impact)

1. Nicolae, D., Vasilescu, J., Talianu, C., Dandocsi, A. M., Belegante, L., Nemuc, A., Ţoancă, F., Nicolae, V., Adam, M., Andrei, S., Cârstea, E., Radu, C., Ilie, A., Dandocsi, A. V., Ciocan, G., Nicolae, S., Ţîrlea, M., Ţilea, A., **Cazacu, M.-M.**, & Binietoglou, I. (2026). Multi-Instrumental Evidence of the 2025 Absorbing Aerosol Perturbation at the RADO-Bucharest Observatory. *Remote Sensing 2026, Vol. 18, Page 3143*, *18*(18), 3143. https://doi.org/10.3390/RS18183143
2. Nicolae, D., Ciocan, G.-A., Nemuc, A., Nicolae, V., Talianu, C., Vasilescu, J., Dandocsi, A., Radu, C., **Cazacu, M.-M.**, Vulturescu, V., & Belegante, L. (2026). Examining the characteristics of aerosols: a statistical analysis based on a decade of lidar and photometer observations at the Eastern border of ACTRIS. Atmos. Meas. Tech., 19, 1179–1199. https://doi.org/https://doi.org/10.5194/amt-19-1179-2026
3. Dragoi (Oniu), L., Ichim, P., & **Cazacu, M.-M.** (2026). Comparative evaluation of CHIMERE and ENSEMBLE model estimates versus in-situ measurements of particulate matter in the Iasi urban area, Romania. *Present Environment and Sustainable Development*, *20*(1), 1. https://doi.org/10.47743/pesd2026201023

4. Timofte, A., Bostan, D. C., Apetroaie, C., Miclăuș, I. M., & **Cazacu, M. M.** (2025). The 50-Year Evolution of the Planetary Boundary Layer in the Southern Part of Romania: Comparison Between the Determinations by the Stull Method and the Reanalysis Data from ERA5. Atmosphere 2025, Vol. 16, Page 1247, 16(11), 1247. https://doi.org/10.3390/ATMOS16111247

5. Ciocan, G., Nemuc, A., Belegante, L., & **Cazacu, M. M.** (2025). Mineral dust intrusions in Southeastern Romania: insights from seventeen years of sun photometer data. Journal of Optoelectronics and Advanced Materials, 27(July-August 2025), 354–367

6. Tanasa, I., **Cazacu, M.**, Botan, D., Atkinson, J. D., Sebestyen, V., & Sluser, B. (2025). From Aerosol Optical Depth to Risk Assessment: A Novel Framework for Environmental Impact Statistics of Air Quality Using AERONET. Environments 2025, Vol. 12, Page 285, 12(8), 285. https://doi.org/10.3390/ENVIRONMENTS12080285

7. Drăgoi, L., **Cazacu, M.-M.**, & Breabăn, I.-G. (2025). Evaluation of Scenarios for the Application of the Future PM2.5 and PM10 Standards: A Case Study of Three Urban Areas in Romania and Implications for Public Policies. Environments 2025, Vol. 12, Page 373, 12(10), 373. https://doi.org/10.3390/ENVIRONMENTS12100373

8. Drăgoi, L., **Cazacu, M. M.**, & Breabăn, I. G. (2025). Analysis of the PM2.5/PM10 Ratio in Three Urban Areas of Northeastern Romania. Atmosphere, 16(6), 720. https://doi.org/10.3390/atmos16060720

9. Ababei, R. V., Garofalide, S., Bulai, G., Dimitriu, G. D., Gurlui, S., & Cazacu, M. M. (2025). Unveiling the Correlation between Lyapunov Coefficients and Deep Learning Performance Using Ceilometer Data. IEEE Geoscience and Remote Sensing Letters, 22, 1–5. https://doi.org/10.1109/LGRS.2025.3557150

10. **Cazacu, M. M.**, Roșu, A. I., Ababei, R. V., Roșu, A., Vasincu, D., Nica, D. C., Rusu, O., Bruma, A. B., & Agop, M. (2024). Investigating Nonlinear Dynamics in Atmospheric Aerosols during the Transition from Laminar to Turbulent Flow. Atmosphere, 15(3).

11. Roman, A.-M., Cimpoeșu, R., Pricop, B., **Cazacu, M. M.**, Zegan, G., Istrate, B., Cocean, A., Chelariu, R., Moscu, M., Bădărău, G., Cimpoeșu, N., & Ivănescu, M. C. (2024). Investigations on the Degradation Behavior of Processed FeMnSi-xCu Shape Memory Alloys. Nanomaterials 2024, Vol. 14, Page 330, 14(4), 330.

12. Roman, A. M., Cimpoeșu, R., Pricop, B., Lohan, N. M., **Cazacu, M. M.**, Bujoreanu, L. G., Panaghie, C., Zegan, G., Cimpoeșu, N., & Murariu, A. M. (2023). Influence of Dynamic Strain Sweep on the Degradation Behavior of FeMnSi–Ag Shape Memory Alloys. Journal of Functional Biomaterials, 14(7), 377.

13. Dragoi (Oniu), L., Breabăn, I. G., & **Cazacu, M. M.** (2023). 2017 – 2020 trends of particulate matter PM10 concentrations in the cities of Suceava and Botoșani. Present Environment and Sustainable Development, 17(1), 335–349.

14. Bostan, D., Miclăuș, I., Apetroaie, C., Voiculescu, M., Timofte, A., & **Cazacu, M.-M.** (2023). Long-Range Transport Analysis Based on Eastern Atmospheric Circulation and Its Impact on the Dust Event over Moldavia , Romania in August 2022 Circulation and Its Impact on the Dust Event over Moldavia ,. Atmosphere, 14(August), 1366.

15. Tanasa, I., **Cazacu, M.**, & Sluser, B. (2023). Air Quality Integrated Assessment: Environmental Impacts, Risks and Human Health Hazards. Applied Sciences (Switzerland), 13(2). https://doi.org/10.3390/app13021222

16. Roman, A. M., Chelariu, R., Cimpoesu, R., Stirbu, I., Ionita, I., **Cazacu, M. M.**, Prisecariu, B. A., Cimpoesu, N., Pietrusiewicz, P., & Sodor, A. (2022). Analysis of the corrosion rate of FeMn-Si biodegradable material. Archives of Metallurgy and Materials, 67(4), 1243–1250. https://doi.org/10.24425/amm.2022.141048

17. Luțcanu, M., Coteață, M., Bernevig, M. A., Nechifor, C. D., **Cazacu, M. M.**, Paraschiv, P., Istrate, B., Bădărău, G., Sandu, I. G., & Cimpoeșu, N. (2022). Obtaining and Analyzing the Al2O3-ZrO2 Ceramic Layers on Metallic Substrate. Archives of Metallurgy and Materials, 67(2), 479–485.

18. Panaghie, C., Cimpoesu, N., Benchea, M., Roman, A., Manole, V., Alexandru, A., Cimpoesu, R., **Cazacu, M. M.**, Wnuk, I., & Zegan, G. (2022). "In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY. Archives of Metallurgy and Materials, 67(2), 587–594.

19. **Cazacu, M. M.**, Roșu, I. A., Bibire, L., Vasincu, D., Rotundu, A. M., & Agop, M. (2022). Theoretical and Experimental Designs of the Planetary Boundary Layer Dynamics through a Multifractal Theory of Motion. Fractal and Fractional, 6(12). https://doi.org/10.3390/fractalfract6120747

20. Radinschi, I., Grammenos, T., Spanou, A., Chattopadhyay, S., & **Cazacu, M. M.** (2022). Landau-Lifshitz and Weinberg Energy Distributions for the Static Regular Simpson-Visser Space-Time Geometry. Symmetry 2022, Vol. 14, Page 900, 14(5), 900. https://doi.org/10.3390/SYM14050900

21. Nica, D.-C., **Cazacu, M.-M.**, Constantin, D.-E., Nedeff, V., Nedeff, F., Vasincu, D., Roșu, I.-A., & Agop, M. (2022). Boundary Layer via Multifractal Mass Conductivity through Remote Sensing Data in Atmospheric Dynamics. Fractal and Fractional, Vol. 6, Page 250, 6(5), 250. https://doi.org/10.3390/FRACTALFRACT6050250

22. Roșu, I. A., Nica, D. C., **Cazacu, M. M.**, & Agop, M. (2022). Cellular Self-Structuring and Turbulent Behaviors in Atmospheric Laminar Channels. Frontiers in Earth Science, 9, 1344. https://doi.org/10.3389/FEART.2021.801020

23. Roșu, I., Nica, D., **Cazacu, M. M.**, & Agop, M. (2021). Towards Possible Laminar Channels through Turbulent Atmospheres in a Multifractal Paradigm. Atmosphere, 12(8), Article 1038. https://doi.org/10.3390/atmos12081038

24. Roșu, I. A., **Cazacu, M. M.**, & Agop, M. (2021). Multifractal model of atmospheric turbulence applied to elastic lidar data. Atmosphere, 12(2), 1–25. https://doi.org/10.3390/atmos12020226

25. Radinschi, I., Grammenos, T., Chakraborty, G., Chattopadhyay, S., & **Cazacu, M. M.** (2021). Einstein and Møller Energy-Momentum Distributions for the Static Regular Simpson–Visser Space-Time. Symmetry, 13(9), Article 1622. https://doi.org/10.3390/sym13091622

26. Radinschi, I., Grammenos, T., Sahoo, P. K., Chattopadhyay, S., & **Cazacu, M. M.** (2021). Einstein and Møller energies of a particular asymptotically Reissner–Nordström non-singular black hole solution. Astronomische Nachrichten. https://doi.org/10.1002/asna.202113917

27. Radinschi, I., Sahoo, P. K., Grammenos, T., Chattopadhyay, S., & **Cazacu, M.M.** (2020). Localization of Energy and Momentum in an Asymptotically Reissner-Nordström Non-Singular Black Hole Space-Time Geometry. Universe, 6(5), Article 69. https://doi.org/10.3390/universe6050069

28. Radinschi, I., Grammenos, T., Rahaman, F., **Cazacu, M. M.**, Spanou, A., & Chakraborty, J. (2020). On the energy of a non-singular black hole solution satisfying the weak energy condition. Universe, 6(10), Article 169. https://doi.org/10.3390/universe6100169

29. Roșu, A. I., **Cazacu, M. M.**, Ghenadi, S. A., Bibere, L., & Agop, M. (2020). On a multifractal approach of turbulent atmosphere dynamics. Frontiers in Earth Science, 8, Article 216. https://doi.org/10.3389/feart.2020.00216

30. Țîmpu, S., Sfîcă, L., Dobri, R.V., **Cazacu, M.M.**, Nita, A.I., & Birsan, M.V. (2020). Tropospheric Dust and Associated Atmospheric Circulations over the Mediterranean Region with Focus on Romania's Territory. Atmosphere, 11(4), Article 349. https://doi.org/10.3390/atmos11040349

31. **Cazacu, M. M.**, Pelin, V., Radinschi, I., Sandu, I., Ciocan, V., Sandu, I. G., & Gurlui, S. (2020). Effects of meteorological factors on the hydrophobization of specific calcareous geomaterials from Repedea - Iasi area, under the urban ambiental air exposure. International Journal of Conservation Science, 11(4), 1019–1030.

32. **Cazacu, M. M.**, Pelin, V., Radinschi, I., Sandu, I., Ciocan, V., Sandu, I. G., & Gurlui, S. (2020). Effects of meteorological factors on the hydrophobization of specific calcareous geomaterials from Repedea - Iasi area, under the urban ambiental air exposure. International Journal of Conservation Science, 11(4), 1019–1030.

33. Rosu, I.A., Ferrarese, S., Radinschi, I., Ciocan, V., & **Cazacu, M. M.** (2019). Evaluation of Different WRF Parametrizations over the Region of Iasi with Remote Sensing Techniques. Atmosphere, 10(9), Article 559. https://doi.org/doi:10.3390/atmos10090559

34. Rosu, I.-A., **Cazacu, M.-M.**, Prelipceanu, O., & Agop, M. (2019). A Turbulence-Oriented Approach to Retrieve Various Atmospheric Parameters Using Advanced Lidar Data Processing Techniques. Atmosphere, 10(1), Article 38. https://doi.org/10.3390/atmos10010038

35. Radinschi, I., Grammenos, T., Rahaman, F., Spanou, A., **Cazacu, M. M.**, Chattopadhyay, S., & Pasqua, A. (2018). Localization of Energy-Momentum for a Black Hole Spacetime Geometry with Constant Topological Euler Density. Advances in High Energy Physics, 2018, Article 5212696. https://doi.org/10.1155/2018/5212696

36. Bulai, G., Rusu, O., **Cazacu, M. M.**, Tudorache, F., Chazallon, B., Focsa, C., & Gurlui, S. (2018). Structural, magnetic and humidity sensing properties of rare earth doped cobalt ferrite thin films synthesized by pulsed laser deposition. Journal of Ovonic Research, 14(2), 119–128.

37. Cocean, A., Cocean, I., **Cazacu, M. M.**, Bulai, G., Iacomi, F., & Gurlui, S. (2018). Atmosphere self-cleaning under humidity conditions and influence of the snowflakes and artificial light interaction for water dissociation simulated by the means of COMSOL. Applied Surface Science, 443, 83–90.

38. Cocean, A., Pelin, V., **Cazacu, M. M.**, Cocean, I., Sandu, I., Gurlui, S., & Iacomi, F. (2017). Thermal effects induced by laser ablation in non-homogeneous limestone covered by an impurity layer. Applied Surface Science, 424(3), 324–329. https://doi.org/10.1016/j.apsusc.2017.03.172

39. Radinschi, I., Fratiman, V., Ciocan, V., & **Cazacu, M. M.** (2017). Interactive computer simulations for standing waves. Computer Applications in Engineering Education, 25(3), 521–529. https://doi.org/10.1002/cae.21818

40. Banica, A., Bobric, E. D., **Cazacu, M. M.**, Timofte, A., Gurlui, S., & Breaban, I. G. G. (2017). Integrated assessment of exposure to traffic-related air pollution in Iasi city, Romania. Environmental Engineering and Management Journal, 16(9), 2147–2163.

41. **Cazacu, M. M.**, Tudose, O., Boscornea, A., Buzdugan, L., Timofte, A., & Nicolae, D. (2017). Vertical and temporal variation of aerosol mass concentration at Magurele – Romania during EMEP / PEGASOS campaign. Romanian Reports in Physics, 69(2), 1–15.

42. **Cazacu, M. M.**, Tudose, O. G., Timofte, A., Rusu, O., Apostol, L., Leontie, L., & Gurlui, S. (2016). A case study of the behavior of aerosol optical properties under the incidence of a Saharan dust intrusion event. Applied Ecology and Environmental Research, 14(3), 183–194. http://dx.doi.org/10.15666/aeer/1403_183194

43. Timofte, A., Belegante, L., **Cazacu, M. M.**, Albina, B., Talianu, C., & Gurlui, S. (2015). Study of planetary boundary layer height from LIDAR measurements and ALARO model. Journal of Optoelectronics and Advanced Materials, 17(7–8), 911–917.

44. Belegante, L., **Cazacu, M. M.**, Timofte, A., Toanca, F., Vasilescu, J., Rusu, M. I., Ajtai, N., Stefanie, H. I., Vetres, I., Ozunu, A., & Gurlui, S. (2015). Case study of the first volcanic ash exercise in Romania using remote sensing techniques. Environmental Engineering and Management Journal, 14(11), 2503–2514.

45. **Cazacu, M. M.**, Timofte, A., Unga, F., Albina, B., & Gurlui, S. (2015). AERONET data investigation of the aerosol mixtures over Iasi area, One-year time scale overview. Journal of Quantitative Spectroscopy and Radiative Transfer, 153, 57–64. https://doi.org/10.1016/j.jqsrt.2014.09.004

46. Papayannis, A., Nicolae, D., Kokkalis, P., Binietoglou, I., Talianu, C., Belegante, L., Tsaknakis, G., **Cazacu, M. M.**, Vetres, I., & Ilic, L. (2014). Optical, size and mass properties of mixed type aerosols in Greece and Romania as observed by synergy of lidar and sunphotometers in combination with model simulations: A case study. Science of the Total Environment, 500–501, 277–294. https://doi.org/10.1016/j.scitotenv.2014.08.101

47. Unga, F., **Cazacu, M. M.**, Timofte, A., Bostan, D., Mortier, A., Dimitriu, D. G., Gurlui, S., & Goloub, P. (2013). Study of tropospheric aerosol types over Iasi , Romania , during summer of 2012. Environmental Engineering and Management Journal, 12(2), 297–303.

48. **Cazacu, M. M.**, Timofte, A., Talianu, C., Nicolae, D., Danila, M. N., Unga, F., Dimitriu, D. G., & Gurlui, S. (2012). Grimsvotn Volcano: atmospheric volcanic ash cloud investigations, modelling-forecast and experimental environmental approach upon the Romanian area. Journal of Optoelectronics and Advanced Materials, 14(5–6), 517–522.

49. Vetres, I., Ionel, I., **Cazacu, M. M.**, & Balin, I. (2012). Necessity of complementary vertically-resolved lidar observation for ground air pollution analysis in Western Romania. Journal of Environmental Protection and Ecology, 13(2), 409–419.

50. Timofte, A., **Cazacu, M. M.**, Radulescu, R., Belegante, L., Dimitriu, D. G., & Gurlui, S. (2011). Romanian lidar investigation of the Eyjafjallajokull volcanic ash. Environmental Engineering and Management Journal, 10(1), 91–97.

51. **Cazacu, M. M.**, Timofte, A., Balin, I., Dimitriu, D. G., & Gurlui, S. (2011). Complementary atmospheric urban pollution studies in the North-East region of Romania, Iasi county. Environmental Engineering and Management Journal, 10(1), 139–145.

52. Covasnianu, A., **Cazacu, M.M.**, Libralesso, N., Galisson, L., Memier, M., & Balin, I. (2007). Digital Terrain Model by airborne LIDAR technique: an essential tool for hydrologic risks assessment. Journal of Optoelectronics and Advanced Materials, 9(11), 3529–3532.

53. Iacomi, F., Apetroaei, N., Calin, G., Zodieriu, Gh., **Cazacu, M. M.**, Scarlat, C., Goian, V., Menzel, D., Jursic, I., & Schoenes, J. (2007). Structure and surface morphology of Mn-implanted TiO2. Thin Solid Films, 515(16 SPEC. ISS.), 6402–6406. https://doi.org/10.1016/j.tsf.2006.11.188

III. Lista de lucrări publicate în jurnale ISI (fară factor de impact). Proceedings-uri indexate ISI

54. Pelin, V., Rusu, O., **Cazacu, M. M.**, Gurlui, S., Sandu, A. V., Radinschi, I., Ciocan, V., & Sandu, I. (2018). Assessment of Hydrophobic Coating on Porous Calcareous Rocks Surface Exposed in Urban Ambient Air Pollution. IOP Conference Series: Materials Science and Engineering, 374(1), 012091. https://doi.org/10.1088/1757-899X/374/1/012091

55. Radinschi, I., Fratiman, V., **Cazacu, M. M.**, Ciocan, V., & Covatariu, G. (2018). Javascript computer simulation for damped oscillations in a series RLC circuit, a tool to improve students' learning. Proceedings of EDULEARN18 Conference, (pp. 6015–6024). https://doi.org/10.21125/edulearn.2018.1438

56. Radinschi, I., **Cazacu, M. M.**, Covatariu, G., Ciocan, V., Verdes, M., & Helepciuc (Gradinaru), C. M. (2018). The effect of the use of computer simulations and virtual physics laboratory in gender performance of physics learning. ICERI Proceedings (pp. 0549–0555). https://doi.org/10.21125/iceri.2018.1112

57. Gurlui, S., **Cazacu, M. M.**, Timofte, A., Rusu, O., Bulai, G., & Dimitriu, D. (2018). Space- and time-resolved Raman and breakdown spectroscopy: Advanced lidar techniques. EPJ Web of Conferences, 176, Article no. 01028, (pp. 1–4). https://doi.org/10.1051/epjconf/201817601028

58. **Cazacu, M. M.**, Tudose, O., Balanici, D., & Balin, I. (2018). Research and development of commercial lidar systems in Romania: Critical review of the ESYRO lidar systems developed by SC Enviroscopy SRL (ESYRO). EPJ Web of Conferences, Vol. 176, Article no. 11005, (pp. 1–4). https://doi.org/10.1051/epjconf/201817611005

59. Pelin, V., Rusu, O., Sandu, I. G., Vasilache, V., Gurlui, S., Sandu, A. V., **Cazacu, M. M.** & Sandu, I. G. G. (2017). Approaching on Colorimetric Change of Porous Calcareous Rocks Exposed in Urban Environmental Conditions from Iasi - Romania. IOP Conference Series-Materials Science and Engineering, Vol. 209, Issue 1, Article no. 012080 (pp.:1 - 8). https://doi.org/10.1088/1757-899X/209/1/012080

60. Covatariu, G., **Cazacu, M. M.**, Radinschi, I., Ciocan, V., Fratiman, V., & Turcanu, F. E. (2017). Statistical survey of the outcome of effective use of computer simulations in students learning. EDULEARN Proceedings: 9th International Conference on Education and New Learning Technologies (EDULEARN17), (pp. 887–893). ISBN 978-84-697-3777-4.

61. Albina, B., **Cazacu, M. M.**, Timofte, A., Dimitriu, D. G., & Gurlui, S. O. (2014). Studies of planetary boundary layer by infrared thermal imagery. AIP Conference Proceedings, 1634(174), (pp. 174–179). https://doi.org/10.1063/1.4903034

IV. Lista de lucrări publicate în jurnale indexate in baze de date internaţionale (BDI)

62. Luţcanu, M., Munteanu, C., Kicsi, G., Roman, A. M., Croitoru, C. G., Prisecariu, B. A., **Cazacu, M. M**., Ştirbu, I., Chicet, D. L., & Cimpoeşu, N. (2023). Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique. Materials Today: Proceedings, 72, 550–553. https://doi.org/10.1016/j.matpr.2022.10.037

63. Apetroaie, C., Bostan, D.-C., Timofte, A., Bostan, S., & **Cazacu, M. M.** (2022). Usage of Atmospheric Sounding to Characterize the Meteorological Events on the Night of 23/24 August, 2022. Bulletin of the Polytechnic Institute from Iaşi: Chemistry and Chemical Engineering Section, 68(2), 33–62. https://doi.org/10.2478/bipmf-2022-0008

64. Apetroaie, C., Timofte, A., Bostan, D.-C., Bostan, S., & **Cazacu, M. M.** (2022). The description of important historical moments in terms of meteorological aspects. Bulletin of the Polytechnic Institute from Iaşi: Chemistry and Chemical Engineering Section, 68(3), 53–69. https://doi.org/10.2478/bipmf

65. Chiruţă C., Tănasă I.M., Roșu I.A., Tudose O.G., Sluşer B., **Cazacu M.M.**, (2022). Case study of the evidence of PM1& PM2.5 contribution on PM10 from Podul de Piatra– Iasi city, Bulletin of the Polytechnic Institute of Iasi, Section Mathematics. Theoretical Mechanics, Physics, Volume 68(72), No. 1, doi:10.2478/bipmf-2022-0004

66. Rosu, A.I., Voiculescu, M., Constantin, D., Rosu, A., Timofte, A., **Cazacu, M.M.**, (2022). Quantifying atmospheric dynamics predictions through atmospheric laminar channels, Report series in aerosol science, Nr. 250, Abstract Book - 1st ACTRIS Science Conference 2022, ISBN 978-952-7276-80-8

67. Roșu A. I., Cazacu A., Bodale I., **Cazacu M. M.** (2020), Developing a concrete inequality condition for Taylor's hypothesis in common turbulent atmospheric flows, Bulletin of the Polytechnic Institute of Iasi, Section Mathematics. Theoretical Mechanics, Physics, vol. 66(70), No.4, pag. 49–55.

68. Roșu A. I., **Cazacu M. M.** (2020), Further developments of a multifractal model of atmospheric turbulence, Bulletin of the Polytechnic Institute of Iasi, Section Mathematics. Theoretical Mechanics, Physics, vol. 66(70), No. 3, pag. 77–91.

69. Pelin, V., Radinschi, I., Ciocan, V., Sandu, I., Coman, T. B., & **Cazacu, M. M.** (2020). Preliminary Evaluation of Coating Hydrophobization of Natural Stone from Repedea - Iasi area (Romania). Revista de Chimie, 71(1), 273–282. https://doi.org/10.37358/RC.20.1.7845

70. Branişte M.V., Ștefan I., Ana M., Unga F., **Cazacu M.M.**, (2020), Particle air pollution (PM10) monitoring and public opinion on air quality. a case study in Northeastern Romania, Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section, vol. 66(70), No. 4, pag. 56–67.

71. Covatariu G., Radinschi I., Ciocan V., Verdeș M., Frățiman V., **Cazacu M. M.**, Coman T. B. (2019), Analysis on the use of Javascript and Adobe Flash programs for teaching physics in civil engineering, Bulletin of the Polytechnic Institute of Iasi, Section Mathematics. Theoretical Mechanics, Physics, vol. 65(69), no. 4, pag. 69–78.

72. Prelipceanu O.S., Havriliuc Ș, , Rusu I. D., **Cazacu M. M.**, Roșu I. A., Prelipceanu M., (2019) New experimental approach of atmospheric pollutant compounds detection, Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section, vol. 65(69), No. 1, pag. 56–67.

73. Hușanu F. G., **Cazacu M. M.**, Bulai G., Gurlui S., Pettinelli E. (2018), Laboratory measurements for the characterization of the physical parameters of geomaterials and planetary analogues, Bulletin of the Polytechnic Institute of Jassy, Section Mathematics. Theoretical Mechanics, Physics, vol. 64(68), no. 1, pag. 17–23.

74. Amarandi L.-M., Unga F., Popovici I.-E., Goloub P., **Cazacu M.-M.**, Gurlui S.-O., Blarel L., Choël M. (2018), Investigation of atmospheric particulate matter (PM) mass concentration spatial variability by means of on-foot mobile measurements in Lille, Northern France, Bulletin of the Polytechnic Institute of Jassy, Section Mathematics. Theoretical Mechanics, Physics, vol. 64(68), no. 1, pag. 25–36.

75. Sfîcă, L., Iordache, I., Ichim, P., Leahu, A., **Cazacu, M.M.**, Gurlui, S., & Trif, C.-R. (2018). The Influence of Weather Conditions and Local Climate on Particulate Matter (PM10) Concentration in Metropolitan Area of Iasi, Romania. Present Environment and Sustainable Development, 12(2), 47–69. https://doi.org/10.2478/pesd-2018-0029

76. Prelipceanu O. S., **Cazacu M. M.**, Roșu I. A., Prelipceanu M. (2018), Wireless system for monitoring and control of environmental parameters, Bulletin of the Polytechnic Institute of Jassy, Section Mathematics. Theoretical Mechanics, Physics, vol. 64(68), no. 4, pag. 77–89.

77. **Cazacu M. M.**, Tudose O. G., Rusu O., Scripa A. E., Radinschi I. (2017), An overview of remote sensing techniques for the tropospheric aerosols monitoring. A case study, Bulletin of the Polytechnic Institute of Jassy, Section Mathematics. Theoretical Mechanics, Physics, vol. 63(67), no. 2, pag. 43–60.

78. **Cazacu M. M.**, Covatariu G., Radinschi I. (2017), Statistical study of impact of the use of computer simulations on the improvement of students' marks, Bulletin of the Polytechnic Institute of Iasi, Section Mathematics. Theoretical Mechanics, Physics, vol. 63(67), no. 1, pag. 35–42.

79. E.V. Gafton, Haque F., Huşanu F., **Cazacu M. M.**, Bulai G., Gurlui S. (2017), Hydrogen passivation effect on ZnO powder, Bulletin of the Polytechnic Institute of Jassy, Section Mathematics. Theoretical Mechanics, Physics, vol. 63(67), no. 2, pag. 61–70.

80. Radinschi, I., Fratiman, V., **Cazacu, M.-M.**, Covatariu, G. , (2016): A Computer Aided Study of Two Perpendicular Harmonic Oscillations of the Same Frequency. Bull. Polytech. Inst. Jassy, Sect. Math. Theor. Mech. Phys. 62(66) (1), S. 55–66;

81. Radinschi, I., Covatariu, G., **Cazacu, M.** , (2016): Maple Program for Studying Physics Phenomena with Applications in Civil Engineering. Intersections. 13 (2), S. 107–118;

82. Stratulat, S.I., **Cazacu, M.M.** & Timofte, A. (2015) Ambient Air-Quality Impact as a Determinant External Factor of the Exposome in Cacica Area, Romania. Journal of Environmental Science and Engineering A. 4 (11), 567–577;

83. Albina, B., **Cazacu, M.M.**, Timofte, A., Dimitriu, D.G., Gurlui, S., (2014): Studies of planetary boundary layer by infrared thermal imagery. AIP Conf. Proc. 174 S. 174–179;

84. O. Niculescu, **M.M. Cazacu**, M. Danila, D. Dimitriu, S. Gurlui, M. Agop, Magnetosphere double layers and aurora borealis. Acceleration Mechanisms and Instabilities, STUDIA UBB AMBIENTUM, LVII, 1-2, 2012, pp. 123-128

85. Danila, M.N., Unga, F., **Cazacu, M.M.**, Timofte, A., Strat, M., Dimitriu, D.G., Gurlui, S. , 2012: Lidar measurements comparison of two volcanic eruptions: environmental influences upon the Romanian territory. Analele Univ. Vest din Timişoara. LVI S. 68–75;

86. Danila, M.N., **Cazacu, M.M.**, Gurlui, S., 2012: Python utility: Laser-atmosphere interaction extended to network data management. 5th Romania TIER 2 federation grid, cloud & high performance computing science (RO-LCG). IEEE. S. 90–92;

87. Tudose, O.-G., **Cazacu, M.-M.**, Timofte, A., Balin, I. , 2011: ESYROLIDAR system developments for troposphere monitoring of aerosols and clouds properties. Proc. SPIE. 8177 S. 817716-817716–10;

88. Grimberg, R., Savin, A., Steigmann, R., Andreescu, A., Iftimie, N., **Cazacu, M.M.**, Tamburrino, A., Melikhov, Y., Chen, Z., Udpa, L. , 2008: Lifetime Prediction of Pressure Tubes in PHWR Nuclear Power Plants using Eddy Current Data. Electromagn. Nondestruct. Eval. 31 S. 257–262;

89. Grimberg R., Barsanescu P., Savin A., Steigmann R., **Cazacu M.M.**, Evaluation of carbon epoxy composites delaminations using Lamb waves, Buletinul Institutului Politehnic Iasi, tom LIII(LVII), Fasc.2, pp. 53-60, 2007;

90. Grimberg R., Curtu I., Szava I., Savin A., Steigmann R., Iftimie N., **Cazacu M.M.**, Nondestructive evaluation with ultrasound of sandwich ligno-cellulose composites using noncontact transducers, Buletinul Institutului Politehnic Iasi, tom LIII(LVII), Fasc.2, pp.61-68, 2007.

V. Cărți și capitole în cărți

91. **Cazacu M. M.**, Şchiopu C.E., Rădulescu C.M., Falotă D., Bodnariu A.I., *Politică publică alternativă pentru măsurarea, îmbunătățirea şi păstrarea calității aerului ambiental: Propunere de politică publică dezvoltată în cadrul proiectului „Politici publice alternative în domeniul calității aerului”,* StudIS, Iasi, 2024, ISBN: 978-606-48-1175-2

92. Radinschi I., **Cazacu M. M.**, *Physics 1 Quizzes* - Performantica, Iasi, 2023, ISBN: 9786303280615

93. Coman, T. B., **Cazacu, M. M.**, Apreotesei, G., Prelipceanu, M., & Radinschi, I. (2021). *In-person versus virtual activities: Assessing the usefulness and impact of simulated experiments, a case study*. Biomedical Engineering Tools for Management for Patients with COVID-19, 73–86, Capitolul 4, https://doi.org/10.1016/B978-0-12-824473-9.00004-5

94. Buzea, C. G., Eva, L., Prelipceanu, M., **Cazacu, M. M.**, Garofalide, S., & Agop, M. (2021). *Coronavirus disease COVID-19 tracking the global outbreak. SEIR compartmental model applied to SARS-CoV-2 epidemic in Romania*. Biomedical Engineering Tools for Management for Patients with COVID-19, 87–102, Capitolul 5, https://doi.org/10.1016/B978-0-12-824473-9.00002-1

95. Mireștean, C. C., Agop, M., Buzea, C. G., **Cazacu, M. M.**, Prelipceanu, M., Iancu, R. I., & Iancu, D. T. (2021). *Radiotherapy challenges in COVID era*. Biomedical Engineering Tools for Management for Patients with COVID-19, 41–72, Capitolul 3, https://doi.org/10.1016/B978-0-12-824473-9.00009-4

96. M. Voiculescu, S. Condurache-Bota, L. Sfîcă, **M.M. Cazacu**, (2020), *Teste și întrebări de fizica atmosferei, meteorologie și climatologie*, Editura: Ars Longa, ISBN 978-973-148-354-9

97. **M. M. Cazacu**, *Studiul proprietăților elastice. Studiul oscilațiilor*. Capitol din "Îndrumar de lucrări practice pentru disciplina Fizică", Ed. Performantica, 2023, ISBN: 978-630-328-060-8

98. **M. M. Cazacu**, I. Radinschi*, Oscilații amortizate. Oscilații forțate. Pendulul lui Pohl*. Capitol din "Îndrumar de lucrări practice pentru disciplina Fizică", Ed. Performantica, 2023, ISBN: 978-630-328-060-8

99. **M. M. Cazacu**, I. Radinschi, *Studiul fenomenelor specifice undelor electromagnetice. Microundele*. Capitol din "Îndrumar de lucrări practice pentru disciplina Fizică", Ed. Performantica, 2023, ISBN: 978-630-328-060-8

100. **M. M. Cazacu**, *Experimentul Franck și Hertz. Determinarea primului potențial de excitare la atomii de neon*. Capitol din "Îndrumar de lucrări practice pentru disciplina Fizică", Ed. Performantica, 2023, ISBN: 978-630-328-060-8:

101. A. Ionce, I.S. Stratulat, A. Timofte, **M.M Cazacu**, *Analiza unui areal natural de balneoclimatoterapie: Cacica, Județul Suceava*, Capitol din Partea III-a al cărții: Balneclimatologia în România și Republica Moldova, coordonator I.S. Stratulat, Editura Academiei Române, ISBN 978-973-27-3005-8, 2018

102. A. Ionce, I.S. Stratulat, **M.M Cazacu**, A. Timofte, (2016), *Analiza unui areal natural de balneoclimatoterapie: Cacica, Județul Suceava*, Capitol din Partea III al cartii: Balneclimatologia Românească. Istoric și perspective europene, coordonator I.S. Stratulat, Editura Academiei Române, ISBN 978-973-27-2704-1

103. **M.M. Cazacu**, A. Timofte, G. Bulai, S. Gurlui, D. Nicolae, A. Nemuc, L. Belegante, C. Radu, (2016), *Advanced optical remote sensors for airborne and spaceborne platforms (DARLIOES)*, Capitol din cartea: Romanian projects and initiatives in support of Earth Observation, p. 37 - 40, Editura Tehnopress, ISBN: 978-606-687-281-2

L I S T A D E L U C R Ă R I

Conf. dr. ing. **Marius Gavrilescu**

1. Teza de doctorat (T1):

T1. Vizualizarea și prelucrarea grafică a datelor volumetrice *(Visualization and Graphical Processing of Volume Data)*, teză de doctorat, Universitatea Tehnică "Gheorghe Asachi" din Iași, în cotutelă cu Vienna University of Technology, Austria, 2008-2011.

2. Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate
Ca1 M. Gavrilescu, Metode de învățare automată – Noțiuni elementare și implementări în limbajul Python, Ecozone, 2024, ISBN 978-606-8625-42-3.
Ca2 M. O. Pogăcean, **M. Gavrilescu**, P. Cozma, I. M. Simion, M Roșca, Raluca-Maria Hlihor, Maria Gavrilescu, Modelarea dimanicii pesticidelor în produse vegetale și estimarea riscurilor asupra sănătății, Politehnium, 2018, ISBN 978-973-621-477-6.
Ca3 M. Gavrilescu, Volume Rendering, Classification and Analysis Techniques on Modern GPUs, Ecozone, 2012, ISBN 978-973-7645-97-5.

	Articole publicate în reviste cotate ISI cu factor de impact (în JCRs - Clarivate)
R	**R1 M. Gavrilescu**, F. Leon, and A.-A. Minea, “Techniques for Transversal Skill Classification and Relevant Keyword Extraction from Job Advertisements,” Information, vol.16, no. 3, p. 167, http://doi.org/10.3390/info16030167, 2025.
	R2 I. Bîrgăuanu, **M. Gavrilescu***, F. Leon, S. Curteanu, and G. Lisa, “Thermodynamic properties of binary, ternary and quaternary mixtures: N-butyl acetate- n-hexanol - n,n-dimethylacetamide-water. Modeling using regression algorithms and optimization using socially-inspired evolutionary algorithms,” *Journal of the Taiwan Institute of Chemical Engineers*, vol. 165, 105796, http://doi.org/10.1016/j.jtice.2024.105796, 2024.

	R3 F. Leon, **M. Gavrilescu**, S A. Floria, and A.A. Minea, "Hierarchical classification of transversal skills in job advertisements based on sentence embeddings," *Information*, vol. 15 (3), 151, 10.3390/info15030151, 2024.
	R4 S.A. Floria, **M. Gavrilescu**, F. Leon, and S. Curteanu, "Ensembles of biologically inspired optimization algorithms for training multilayer perceptron neural networks," *Applied Sciences*, vol. 12 (19) 9997, http://doi.org/10.3390/app12199997, 2022.
	R5 M. Gavrilescu*, S.A. Floria, F. Leon, and S. Curteanu, "A hybrid competitive evolutionary neural network optimization algorithm for a regression problem in chemical engineering," *Mathematics*, vol. 10 (19), 3581, http://doi.org/10.3390/math10193581, 2022.
	R6 C. Anton, F. Leon, **M. Gavrilescu**, E.N. Drăgoi, S.A. Floria, S. Curteanu, and C. Lisa, "Obtaining bricks using silicon-based materials: Experiments, modeling and optimization with artificial intelligence tools," *Mathematics*, vol. 10 (11), 1891, http://doi.org/10.3390/math10111891, 2022.
	R7 F. Leon and **M. Gavrilescu***, "A review of tracking and trajectory prediction methods for autonomous driving," *Mathematics*, vol. 9, (6), 660, http://doi.org/10.3390/math9060660, 2021.
	R8 P. Cozma, **M. Gavrilescu**, M. Roșca, L. C. Apostol, R. M. Hlihor, and M. Gavrilescu, "Evaluation of human health risks associated with pesticide dietary intake - An overview on quantitative uncertainty analysis," *Environmental Engineering and Management Journal (EEMJ)*, vol. 17 (9), http://doi.org/10.30638/eemj.2018.224 2018.
	R9 C. Ghinea, E. N. Drăgoi, E. D. Comăniţă, **M. Gavrilescu**, T. Câmpean, S. Curteanu, and M. Gavrilescu, "Forecasting municipal solid waste generation using prognostic tools and regression analysis," *Journal of Environmental Management*, vol. 182, pp. 80-93, http://doi.org/10.1016/j.jenvman.2016.07.026, 2016.
	R10 M. Gavrilescu*, "Representation of 3D atmospheric data using a multi-stage visualization pipeline," *Environmental Engineering and Management Journal*, vol. 12, (6), http://doi.org/10.30638/eemj.2013.147, pp. 1193-1198, 2013.
	R11 M. Gavrilescu*, "Visual analysis of the human body through volume classification," *European Journal of Science and Theology*, vol. 8, no. 4, pp. 159-170, 2012.
	R12 P. Herghelegiu, **M. Gavrilescu**, and V. Manta, "Visualization of segmented structures in 3D multimodal medical data sets," *Advances in Electrical and Computer Engineering*, vol. 11 (3), pp. 99-104, http://doi.org/10.4316/AECE.2011.03016, 2011.
	R13 M. Gavrilescu* and V. Manta, "Advances in the visualization of three-dimensional seismic volume data," *Environmental Engineering and Management Journal*, vol. 10, (4), http://doi.org/10.30638/eemj.2011.079, 2011.
	***Autor principal
R	**Articole publicate în reviste indexate BDI**

	R14 M. Gavrilescu, M.M. Malik, E. Groller, Enhanced interfaces for parameter adjustment in volume rendering applications, *Bulletin of the Polytechnic Institute of Iasi,* LVI (LX), 4, 163-174, 2010.
	R15 M. Gavrilescu, V. Manta, W. Purgathofer, Post-rendering enhancement of volumes, *Bulletin of the Polytechnic Institute of Iasi*, LV(LIX), 3, 43-54, 2009.
	R16 M. Gavrilescu, V. Manta, Volume visualization applied in medical imaging, *Bulletin of the Polytechnic Institute of Iasi,* LIV (LVIII), 3-4, 43-52, 2008.

	Brevete de invenţie acordate în ţară
B	**B1** S. Curteanu, F. Leon, **M. Gavrilescu**, S.-A. Floria, C. Anton, C. Lisa, Utilizarea unor algoritmi de inspirație biologică la minimizarea noxelor în procesul de obținere a cărămizilor, RGII/INT/4670/15.11.2023.
	B2 S. Curteanu, F. Leon, **M. Gavrilescu**, S.-A. Floria, C. Anton, C. Lisa, Modelarea procesului de fabricație a cărămizilor folosind ansambluri de metode evolutive de inspirație biologică și socială, RGII/INT/4805/23.11.2023.
	B3 M. Gavrilescu, F. Leon, S. Curteanu, Platformă software pentru rezolvarea problemelor de regresie folosind algoritmi individuali și combinați în ansambluri, RGII/INT/4813/24.11.2023.
	B4 S. Curteanu, F. Leon, **M. Gavrilescu**, N. Anton, C. Lisa, F. Tarcoveanu, Rețele neuronale proiectate în Pytorch pentru predicția evoluției glaucomului, RGII/INT/4867/29.11.2023.
	Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in Web of Science (ISI Proceedings, Clarivate)
V	**V1 M. Gavrilescu**, Evaluation of Vaccination Strategies in an Agent-Based SEIRV Epidemic Model, 13th IEEE International Conference on E-Health and Bioengineering, Iasi, Romania, 2025.
	V2 M. Gavrilescu,Improved Exploration of Volume Data Using Transition Transfer Functions, 29th International Conference on System Theory, Control and Computing (ICSTCC), Cluj, Romania, pp. 770-775, 2025.
	V3 M. Gavrilescu,G-.A Scînteie, D-.E Bărbuță, F. Leon, Improving Maze Exploration and Evacuation with Reactive Agents through Directional Weighting, 29th International Conference on System Theory, Control and Computing (ICSTCC), Cluj, Romania, pp. 385-390, 2025.
	V4 M. Gavrilescu*, F.Leon, L.-E. Ferariu, and C.-N. Buțincu, "A Review of Evolutionary Optimization Methods for Information Visualization and Feature Space Exploration", in *18th International Conference On Innovations In Intelligent Systems and Applications (INISTA)*, http://doi.org/10.1109/INISTA62901.2024.10683825, 2024.
	V5 M. Gavrilescu and F. Leon, "Using Knowledge Transfer for Neural Network Architecture Optimization with Improved Training Efficiency," in *2022 26th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 271-276, http://doi.org/10.1109/ICSTCC55426.2022.9931898**,** 2022.

	V6 D.D. Vecliuc, F. Leon, E. Achirei, Ş. Muraru, and **M. Gavrilescu**, "An Experimental Study of Collaborative Behaviors in Emergency Evacuation Scenarios," in 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), pp. 695-700, http://doi.org/10.1109/ICSTCC52150.2021.9607170, 2021.
	V7 M. Gavrilescu, "Shape Variance-Based Feature Extraction for Biometric Fingerprint Analysis," in 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), pp. 515-518, http://doi.org/10.1109/ICSTCC52150.2021.96073102021.
	V8 M. Gavrilescu, "A supervised generative model for efficient rendering of medical volume data," in 2020 International Conference on e-Health and Bioengineering (EHB), pp. 1-4, 2020.
	V9 M. Gavrilescu, "Efficient Exploration of 3D Medical Images Using Projected Isocontours," in 2019 E-Health and Bioengineering Conference (EHB), pp. 1-4, http://doi.org/ 10.1109/ehb47216.2019.8969969, 2019.
	V10 M. Gavrilescu, "Representation of Partially-Occluded Structures in Regular Point Clouds from 3D Scanner Data using Vision-Based Modulation," in 2017 E-Health and Bioengineering Conference (EHB), pp. 539-542, 2017.
	V11 M. Gavrilescu and F. Ungureanu, "Enhanced three-dimensional visualization of EEG signals," in 2015 E-Health and Bioengineering Conference (EHB), pp. 1-4, 2015.
	V12 M. Gavrilescu, "Analysis of CT Data Using Parallel GPU architectures," in 2012 International Conference and Exposition on Electrical and Power Engineering, pp. 766-770, Oct. 2012.
	Articol/studiu publicat în volumul unei manifestari științifice indexate în BDI
	V13 C.-N. Buțincu, **M. Gavrilescu**, “CPU-GPU Parallelism Applied to Quality-Diversity Volume Rendering”, *2024 28th International Conference on System Theory, Control and Computing (ICSTCC)*, pp. 576-581, 2024; http://doi.org/10.1109/ICSTCC62912.2024.10744686. (IEEE Xplore)
	V14 M. Gavrilescu, “Improved Perceptual Representation of Isosurfaces from Volume Data Using Curvature-based Features“, *2024 28th International Conference on System Theory, Control and Computing (ICSTCC)*, 2024. http://doi.org/10.1109/ICSTCC62912.2024.10744636 (IEEE Xplore)
	V15 M. Gavrilescu, "Visual Identification of Volumetric Structures from 3D Medical CT Data Using Density and Visibility-based Quality Criteria", **2023** International Conference on e-Health and Bioengineering (EHB), pp. 359–367, In : *Advances in Digital Health and Medical Bioengineering*, Costin, H.N., Magjarević, R., Petroiu, G.G. (eds.), IFMBE Proceedings, vol 111. Springer, Cham, Switzerland, https://doi.org/10.1007/978-3-031-62523-7_402023. (IEEE Xplore)
	V16 M. Gavrilescu, F. Leon and S. -A. Floria, "Representation of Coherent Structures from Volume Data Using Quality-oriented Features and Genetic optimization," *2023 27th International Conference on System Theory, Control and Computing (ICSTCC)*, Timisoara, Romania, **2023**, pp. 161-166, http://doi.org/10.1109/ICSTCC59206.2023.10308486. (IEEE Xplore)
	V17 M. Gavrilescu, V. Manta, and E. Gröller, "Gradient-based classification and representation of features from volume data," in 15th International Conference on System Theory, Control and Computing, pp. 243-248, Oct. **2011**. (IEEE Xplore)

	V18 M. Gavrilescu, M. M. Malik, and M. E. Gröller, "Custom interface elements for improved parameter control in volume rendering," in 14th Int. Conf. on System Theory and Control, pp. 219-224, 2010. (IEEE Xplore)
N	**Lucrări susținute în cadrul unor manifestări științifice naționale/internaționale**
	N1 M. Gavrilescu, Neural Network-based Classifier for the Recognition and Rough Segmentation of Solid Waste from Images, 13PPthPPInternational Conference on Environmental Engineering and Management (ICEEM), Iasi, Romania, 2025.
	N2 M. Gavrilescu, F. Leon, Automatic Generation of Images from Hurricane Volume Data Through Evolutionary Optimization, 12th International Conference on Environmental Engineering and Management, Iasi, Romania, 2023.
	N3 C. Anton, C. Lisă, F. Leon, **M. Gavrilescu**, S.-A.Floria, S. Curteanu, Minimizing Nox Emissions in a Brick Manufacturing Process, 12th International Conference on Environmental Engineering and Management, Iasi, Romania, 2023.
	N4 M. Gavrilescu, S.-A. Floria, F. Leon, S. Curteanu, C. Anton, A Hybrid-Evolutionary Optimizer for Modelling the Process of Obtaining Bricks, International Conference on Machine Intelligence and Soft Computing Technologies, July 2023, Stockholm, Sweden 2023.
	N5 S.-A. Floria, **M. Gavrilescu**, F. Leon, S. Curteanu, C. Anton, Neuroevolution Based on Adaptive Ensembles of Biologically Inspired Optimization Algorithms Applied for Modeling a Chemical Engineering Process, International Conference on Computational Engineering and Applications, October 2023, Istanbul, Turkey, 2023.
	N6 M. Gavrilescu, D. Gavrilescu, Augmented Regression of Municipal Solid Waste Generation Rate Based on Economic and Social Data, 2nd International Conference on Sustainable Chemical and Environmental Engineering, Limassol, Cyprus, 2023.
	N7 M. Gavrilescu, Analysis of erosion patterns caused by atmospheric phenomena in high-resolution scans of limestone-based exterior walls, 10th International Conference on Environmental Engineering and Management, Iasi, Romania, 2019.
	N8 M. Gavrilescu, Representation of Dynamic Parameters from Multivariate Climate Data and Potential Applications in Pollutant Transport and Dispersion, 9th International Conference on Environmental Engineering and Management, Bologna, Italy, pp. 108-112, 2017.
	N9 M. Gavrilescu, Real-time visualization of four-dimensional multivariate meteorological phenomena, 7th International Conference on Environmental Engineering and Management, Vienna, Austria, pp. 207-212, 2013.
	N10 M. Gavrilescu, V. Manta, Processing of 3D medical data using volume visualization techniques, Proceedings of BringItOn 2012, Iasi, Romania, pp. 26, 2012.
	N11 M. Gavrilescu, V. Manta, Computation and representation of left-ventricular parameters from multidimensional MR cardiac data, Proceedings of Computer Graphics and Imaging 2010, Innsbruck, Austria, pp. 128-135, 2010.

3. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională/internaţională
P	**P1** Tangrama Medvolution, contract nr 730/10.07.2025, cod SMIS 338516
	P2 Blockchain-based decentralized and self-sovereign identities (DIDSSI), Horizon Europe – Research and Innovation Programme, NGI Sargasso, grant nr. 101092887
	P3 Contract tip PRNE-P1-CDI, nr. 737/ 24.07.2025, etapa 1, cod SMIS 338593
	P4 DIGITAL-2021-EDIH-01, eDIH-DIZ, cod SMIS 323036.
	P5 HRIA –Hub Român de Inteligență Artificială, Contract PCIDIF nr. G 2025 -22801/390012, codSMIS 351416.
	P6 VolEvol, Generation of Meaningful Representations of Volume Data Through Evolutionary Learning, H2020-EU.2.1.1., nr. 951911, 2023-2024. **(Director proiect)**.
	P7 Transforming Europe through doctoral talent and skills recognition – DocTalent4EU, HORIZON-WIDERA-2022- ERA-01-ID 101095292, 2022-2024.
	P8 taRgeted thErapy for adVanced colorEctal canceR patients, REVERT - H2020-BHC-2019 Project ID 848098, 2020-2024.
	P9 Natural sense of vision through acoustics and haptics-Sound of Vision-, H2020-P5-PHC-2014 ID 643636, 2015-2017.
	P10 Recovered paper sorting with innovative technologies - SORT-IT, FP7-ENV-2007-1, 2008-2011.
	P11 HAVOC – De la om la virus. Algoritmi de optimizare cu aplicatii in ingineria chimica. PN-III-P4-ID-PCE-2020-0551, no. 91/2021, 2021 - 2023.
	P12 DigitAll: Innovation Center for Artificial Intelligence, GI-TD-DigitAll-03/2022, 2022-2023.
	P13 Proreta 5 - AI in Motion, 10118 / 16.05.2019, Continental Automotive Romania, 2019-2021.
	P14 Modelarea dinamicii pesticidelor in produse vegetale si estimarea riscurilor asupra sanatatii umane(MODPEST), PN-III-P2-2.1-PED-2016-1662, 2017-2018.
	P15 Ecuatii neliniare de evolutie-aspecte teoretice si aplicatii la stiintele vietii si ale mediului, PNII IDEI, nr. 447/2009, 2009-2011.
	P16 Modelare si conducere automata utilizand instrumente ale inteligentei artificiale pentru aplicatii in chimie si inginerie de proces, PNII parteneriate, nr.71006/2007, 2007-2010.
	P17 Tehnici ale inteligentei artificiale aplicate proceselor de sinteza si complexare ale polisiloxanilor functionalizati, Grant CNCSIS, cod 225, 2006-2008.
	P18 Noi aplicatii ale instrumentelor inteligentei artificiale in modelarea si estimarea unor proprietati fizico-chimice, PN II IDEI nr.64/2007, 2007-2010

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B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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1. **Paula Cojocaru**, *Tehnologia depoluării solurilor prin fitoremediere*, Ed. Performantica, Iași, 140 pg., ISBN: 978-630-328-098-1, 2024.
2. Alina Agafiței, Vasile Lucian Pavel, **Paula Cojocaru**, *Tehnologii de depoluare a acviferelor. Îndrumător practic*, Ed. Politehnium, Iași, 124 pg., ISBN: 978-973-621-500-1, 2021.
3. **Cojocaru Paula**, *Surse, procese și produse de poluare. Lucrări de laborator,* Editura Matrix Rom, 129 pagini, ISBN: 978-606-25-0399-4, București, 2018.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI

1. **Cojocaru Paula**, Maria-Cătălina Pastia, Gabriela Biali, Cristian Cojocaru, *Heavy metal toxicity on Daphnia magna*. Environments, vol.12(3) 70, 2025. https://doi.org/10.3390/environments12030070.
2. Gabriela Biali, Maria Catalina Pastia, **Paula Cojocaru**, Carmen Elena Maftei, *The applicability of GIS technology in the study of riverbed dynamics and morphology*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. XIV, pp. 794-801, ISSN 2285-6072, 2025.

3. C. Cojocaru, **P. Cojocaru**, R.M. Barbu, F. Pinzaru, E. Cojocaru, *Health risks in association with indoor radon exposure in Northeastern Romania*, International Journal of Environmental Science and Technology, vol. 20, no.6, pag. 5937-5944, ISSN: 1735-1472, PRINT ISSN 1735-1472, publicat online 2022 si in volum 20 iunie 2023. DOI: 10.1007/s13762-022-04398-z
https://link.springer.com/article/10.1007/s13762-022-04398-z
4. **Paula Cojocaru**, Gabriela Biali, *Management of manure*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XII, pp. 118-123, ISSN 2285-6072, 2023. WOS:001112288100059
https://www.landreclamationjournal.usamv.ro/pdf/2023/Art15.pdf
5. **Paula Cojocaru**, Gabriela Biali,*Toxicity of copper on the Sinapis alba and Triticum aestivum plants*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XI, pp. 69-75, ISSN 2285-6064, 2022. WOS:000931961700008
https://landreclamationjournal.usamv.ro/pdf/2022/Art8.pdf
6. Gabriela Biali, **Paula Cojocaru**, *GIS hydrological modeling in an agricultural river basin with high potential for water erosion*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.XI, pp. 406-413, ISSN 2285-6064, 2022. WOS:000931961700050
https://landreclamationjournal.usamv.ro/pdf/2022/Art52.pdf
7. **Paula Cojocaru**, Florian Stătescu, Gabriela Biali, *Contributions on the centralized collection of manure*, Environmental Engineering and Management Journal EEMJ, vol. 20, No.3, "Gh. Asachi" Technical University of Iasi, pp. 371-375, ISSN: 1582-9596, 2021
http://www.eemj.icpm.tuiasi.ro/pdfs/vol20/no3/Full/5_288_Cojocaru_20.pdf
8. Gabriela Biali, **Paula Cojocaru**, Petra Schneider, *GIS – Based water erosion modelling: the case of high slope water catchment area, Romania,* Environmental Engineering and Management Journal EEMJ, vol. 20, No.4, "Gh. Asachi" Technical University of Iasi, pp. 613-624, ISSN: 1582-9596, 2021
http://www.eemj.icpm.tuiasi.ro/pdfs/vol20/no4/Full/13_301_Biali_20.pdf
9. Gabriela Biali, **Paula Cojocaru**, *The influence of GIS technology in reclamation solutions for sloping land affected by erosion*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol.X, pp. 293-300, ISSN 2285-6064, 2021. WOS:000704605600040
https://landreclamationjournal.usamv.ro/pdf/2021/Art40.pdf
10. **Paula Cojocaru**, Gabriela Biali, *Effects of soil pollution with heavy metals on plant seeds of Brassica Napus, Pisum sativum and Secale Cereale*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. IX, pp. 59-64, ISSN 2285-6064, 2020. WOS:000574608100008
https://landreclamationjournal.usamv.ro/pdf/2020/Art8.pdf
11. Gabriela Biali, **Paula Cojocaru,** *Comparison of simulation models of water erosion using GIS,* Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. IX, pp. 161-168, ISSN 2285-6064, 2020. https://landreclamationjournal.usamv.ro/pdf/2020/Art24.pdf
12. **Paula Cojocaru,** Florian Stătescu, Gabriela Biali, *Quantification of effects produced by the extraction of mineral aggregates towards water bodies,* Environmental Engineering and Management Journal, vol. 16, no.4, pp. 897-903, ISSN: 1843-3707, 2017.
http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no4/14_663_Cojocaru_16.pdf

13. Florian Stătescu, Dorin Cotiușcă Zauca, Gabriela Biali, **Paula Cojocaru,** Vasile Lucian Pavel, *Influence of soil matrix on soil-water retention curve and hydraulic characteristics,* Environmental Engineering and Management Journal, vol. 16, no. 4, pp. 869-877, ISSN: 1843-3707, 2017.
http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no4/11_653_Statescu_16.pdf
14. Gabriela Biali, **Paula Cojocaru**, *Importance of topology in a GIS project of monitoring the soils in agricultural land*, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.VI, pag. 147 – 154, Print ISSN 2285-6064, 2017. WOS:000413693400026
https://landreclamationjournal.usamv.ro/index.php/scientific-papers/current?id=335
15. **Paula Cojocaru**, Zygmunt Mariusz Gusiatin, Igor Cretescu, *Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (Brassica napus),* Environmental Science and Pollution Research, vol. 23, no. 11, pp. 10693-10701, ISSN: 0944-1344,2016. DOI: 10.1007/s11356-016-6176-5
https://link.springer.com/article/10.1007/s11356-016-6176-5
16. **Paula Cojocaru**, Cotiuşcă Zăuca D., Biali Gabriela, *Decontamination of soils polluted with mineral oils by bioremediation*, Environmental Engineering and Management Journal, vol. 15, no. 6, "Gh. Asachi" Technical University of Iasi, pp.1419-1425, ISSN: 1582-9596, 2016. DOI:10.30638/eemj.2016.152
http://www.eemj.icpm.tuiasi.ro/pdfs/vol15/no6/24_912_Cojocaru_14.pdf
17. Gabriela Biali, **Paula Cojocaru**, *Database search in a GIS application intended for mapping the use categories and anti-erosion systems in Antohesti water catchment area*, Bacau county, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.V, pag. 115 – 122, Print ISSN 2285-6064, 2016. WOS:000413693100019
https://landreclamationjournal.usamv.ro/pdf/2016/Art19.pdf
18. **Paula Cojocaru**, Gabriela Biali, *Assessment of the drinking water demand for water supply of the villages located in the area of Barlad hydrografic basin*, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.V, pag. 67 – 72, Print ISSN 2285-6064, 2016. WOS:000413693100011
https://landreclamationjournal.usamv.ro/pdf/2016/Art11.pdf
19. Gabriela Biali, **Paula Cojocaru**, *Database role in a GIS project for agricultural management on soils subject to erosion*, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.IV, pag. 154 – 157, Print ISSN 2285-6064, 2015. WOS:000416377000025
https://landreclamationjournal.usamv.ro/pdf/2015/vol.IV/Art25.pdf
20. Florian Statescu, Dorin Cotiușcă Zaucă, Vasile Lucian Pavel, **Paula Cojocaru**, Maria Pastia, *Modern techniques for investigation of some of the soil physical properties*, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.IV, pag. 41 – 54, Print ISSN 2285-6064, 2015. WOS:000416377000008
https://landreclamationjournal.usamv.ro/pdf/2015/vol.IV/Art8.pdf
21. **Paula Cojocaru**, Florian Statescu, Gabriela Biali, *Drip irrigation system for Hippophae Rhamnoides on a slope terrain from Central Moldavian Plateau*, Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Series E, vol.IV, pag. 29 – 34, Print ISSN 2285-6064, 2015. WOS:000416377000006
https://landreclamationjournal.usamv.ro/pdf/2015/vol.IV/Art6.pdf
22. Ioan Cojocaru, **Paula Cojocaru**, Dragoş Cojocaru, *Calculation of distance between drains in multilayer (inhomogeneous)ground in permanent flow regime*, Environmental Engineering and Management Journal, vol. 12, no. 4, "Gh. Asachi"

Technical University of Iasi, pp.665-669, ISSN: 1582-9596, 2013. DOI:10.30638/eemj.2013.081
http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no4/8_951_Cojocaru_12.pdf
23. **Paula Caraiman (Cojocaru)**, Corneliu Pohontu, Gabriela Soreanu, Matei Macoveanu, Igor Cretescu, *Optimization process of cadmium and zink removal from soil by phytoremediation using Brassica napus and Triticales sp.*, Environmental Engineering and Management Journal, vol. 11, no.2, "Gh. Asachi" Technical University of Iasi, pp. 271-278, ISSN: 1582-9596, 2012. WOS:000303276000006
http://www.eemj.icpm.tuiasi.ro/pdfs/vol11/no2/5_710_Caraiman_11.pdf
24. **Paula Caraiman Cojocaru**, Matei Macoveanu, *Decontamination of polluted soil with Cadmium and Zinc using greenhouse phytoremediation*, Environmental Engineering and Management Journal, vol. 10, no. 3, "Gh. Asachi" Technical University of Iasi, pp.349-355, ISSN: 1582-9596, 2011. DOI:10.30638/eemj.2011.051
https://www.eemj.eu/index.php/EEMJ/article/view/760

- Articole publicate în volume indexate ISI Proceedings

25. **Paula Cojocaru**, Florian Statescu, Gabriela Biali, *Toxicity of soil pollution with petroleum on plant seeds*, The 19th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.575-582, vol. 19, Water Resources. Forest. Marine and Ocean Ecosystems, issue 3.2, ISBN 978-619-7408-82-9, 2019. DOI: 10.5593/sgem2019/3.2/S13.075
https://www.proquest.com/openview/b22a744ccd6dcfd5df5a0b7e178739ce/1?pq-origsite=gscholar&cbl=1536338
26. Gabriela Biali, **Paula Cojocaru,** Petra Schneider, *Research concerning the improvement of the characteristics of soils affected by landslide,* The 19th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.341-348, vol. 19, Water Resources. Forest. Marine and Ocean Ecosystems, issue 3.2, ISBN 978-619-7408-82-9, 2019. DOI: 10.5593/sgem2019/3.2/S13.045
https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=5738
27. Gabriela Biali, **Paula Cojocaru**, *Use of GIS technique for hydrological modeling of sheet erosion,* The 18th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 2 July – 8 July, Conference Proceedings, pag.705-712, vol. 18, Informatics, Geoinformatics and Remote Sensing, issue 2.3, ISBN 978-619-7408-41-6, 2018.
28. **Paula Cojocaru**, Gabriela Biali, *Dimensional calculations for the sanitary protection zones of a water catchment,* The 17th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 29 June – 5 July, Conference Proceedings, pag.199-207, ISBN 978-619-7408-04-1, 2017. DOI: 10.5593/sgem2017/31/S12.025
https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=3304
29. Gabriela Biali, **Paula Cojocaru**, *Monitoring the evolution of gullies in a water catchment by GIS techniques,* The 17th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 29 June – 5 July, Conference Proceedings, pag.611-618, ISBN 978-619-7408-03-4, 2017. DOI: 10.5593/sgem2017/2.3/S11.07
https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=3246

30. **Paula Cojocaru**, Gabriela Biali, *Method of calculation of the drip irrigation water requirement of an orchards in the Moldavian Central Plateau,* The 16th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.211-218, ISBN 978-619-7105-62-9, 2016.
DOI: 10.5593/sgem2016/B32/S13.028
https://www.proquest.com/docview/2014894888?pq-origsite=gscholar&fromopenview=true&sourcetype=Conference%20Papers%20&%20Proceedings
31. Gabriela Biali, **Paula Cojocaru**, *Use of GIS technique to design landslide risk assessment maps for agricultural land,* The 16th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.579-590, ISBN 978-619-7105-60-5, 2016 DOI: 10.5593/sgem2016/B23/S11.074
https://www.proquest.com/docview/2014473057?pq-origsite=primo&sourcetype=Conference%20Papers%20&%20Proceedings
32. Gabriela Biali, **Paula Cojocaru**, *GIS Applied in assessing water erosion,* The 15th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 18 – 24, Conference Proceedings, pag.871-882, ISBN 978-619-7105-35-3, 2015. DOI: 10.5593/sgem2015/B22/S11.110
http://www.scopus.com/inward/record.url?eid=2-s2.0-84946411348&partnerID=MN8TOARS
33. Gabriela Biali, Petra Schneider, **Paula Cojocaru**, *Use of GIS in surface water monitoring for targeted policy intervention in a mountainous catchment in Romania,* The 15th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 18 – 24, Conference Proceedings, pag.1191-1198, ISBN 978-619-7105-35-3, 2015. DOI: 10.5593/sgem2015/B22/S11.148
https://www.elibrary.ru/item.asp?id=43020314
34. **Paula Cojocaru**, Florian Statescu, *Calculus method of the flushing out dynamics through flooding of the industrial polluted soils,* The 14th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 17 – 26, Conference Proceedings, pag.113-120, ISBN 978-619-7105-17-9, 2014. DOI: 10.5593/sgem2014/B51/S20.016
http://www.scopus.com/inward/record.url?eid=2-s2.0-84946708036&partnerID=MN8TOARS
35. **Paula Cojocaru**, Florian Statescu, *Ecological rehabilitation of a terrain occupied by a waste deposit from manufacturing of the sugar,* The 14th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 17 – 26, Conference Proceedings, pag.229-236, ISBN 978-619-7105-17-9, 2014. DOI: 10.5593/sgem2014/B51/S20.032
http://www.scopus.com/inward/record.url?eid=2-s2.0-84946733370&partnerID=MN8TOARS
36. **Paula Cojocaru**, *Phytotoxicity of cadmium and zinc on Brassica napus, sinapsis alba and spinacia oleracea using two soil types,* The 13th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 16 – 22, Conference Proceedings, pag.619-626, ISBN 978-619-7105-02-5, 2013. DOI: 10.5593/sgem2013/BC3/S13.019
http://www.scopus.com/inward/record.url?eid=2-s2.0-84892590242&partnerID=MN8TOARS
37. Iuliana Breaban, Madalina Paiu, **Paula Cojocaru**, Igor Creţescu, *Studies upon the groundwater quality index of the aquifer from Barlad middle basin",* The 13th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 16 –

22, Conference Proceedings, pag.317-324, ISBN 978-619-7105-02-5, 2013. DOI: 10.5593/sgem2013/BC3/S12.040
https://www.scopus.com/record/display.uri?eid=2-s2.0-84892618999&origin=inward&txGid=6e88a10537b3ef3f63aede24a2cd9846

- Articole indexate în baze de date internaţionale

38. Alina Agafiței, Vasile Lucian Pavel, **Paula Cojocaru**, *Impact of sugar beet manufacturing activity within SC AGRANA ROMÂNIA SA-Roman, Neamț County on the environment*, Buletinul Institutului Politehnic din Iași, secția Chimie și Inginerie Chimică, vol.67(71), no.3, pag.21-27, ISSN:2537-2947, 2021.
http://bipcic.icpm.tuiasi.ro/pdf/2021/3/bipi_cic_2021_3_02.pdf
39. Gabriela Biali, **Paula Cojocaru**, Valentin Boboc, *Agricultural land management and results of land reform in Romania,* Lucrări Științifice, Seria Agronomie, vol. 59, nr.2, pag. 17 – 22, Print ISSN 1454-7414, 2016.
https://repository.iuls.ro/xmlui/bitstream/handle/20.500.12811/1269/LSA_v.59_nr.2_Agricultural.pdf?sequence=1
40. Esmeralda Chiorescu, **Paula Cojocaru**, *Hydrological and hydraulic research for Re-equipping and irrigated plot with pressurized pipelines*, Lucrări Științifice, Seria Agronomie, vol. 58, nr.2, pag. 55 – 60, ISSN-L 1454-7414, 2015.
https://www.uaiasi.ro/revagrois/PDF/2015-2/paper/2015-58(2)_09-en.pdf
41. Gabriela Biali, **Paula Cojocaru**, Astrid Roberta Martinaș, *Studies on expansion of degradation processes in agricultural land plots in Iași, Bacău and Vaslui counties,* Lucrări Științifice, Seria Agronomie, vol. 58, nr.2, pag. 99 – 103, ISSN-L 1454-7414, 2015.
https://repository.iuls.ro/xmlui/bitstream/handle/20.500.12811/1824/LSA_v.58_nr.2_Studies%20on....pdf?sequence=1
42. **Paula Cojocaru**, Gabriela Biali, *Chemical statement of water from deep boreholes from the hydrographic basin Bârlad*, Lucrări Științifice, Seria Horticultură, vol. 58, nr.2, pag. 273 – 278, ISSN-L 1454-7376, 2015.
https://www.uaiasi.ro/revista_horti/files/Nr2_2015/Vol%2058_2_2015(45).pdf
43. Dorin Cotiușcă Zaucă, Raluca-Catrinel Giurma-Handley, Amedeo Mitroi, **Paula Cojocaru,** *Verifying the operational safety of some earth dams using own coded computer programs",* Buletinul Institutului Politehnic din Iaşi, secţia Constructii. Arhitectură, LX(LXIV), fascicol 4, pag. 39-47, ISSN: 1224-3884, 2014.
https://www.bipcons.ce.tuiasi.ro/Archive/482.pdf
44. **Paula Cojocaru**, Florian Stătescu, *Studies upon the quality status of a terrain occupied by a sugar manufacturing waste deposit*, Revista Lucrări Științifice, vol.57, nr.1, pag.289-294, ISSN 1454-7376, 2014.
https://www.uaiasi.ro/revista_horti/files/Nr1_2014/Vol%2057_1_2014(47).pdf
45. Dragos Cojocaru, Mihai Branzila, **Paula Cojocaru**, *Contributions to hydrogeological protection perimeter size calculation under severe and restraining regime*", Buletinul Institutului Politehnic din Iaşi, secţia Constructii. Arhitectură, LX(LXIV), fascicol 4, pag. 39-47, ISSN: 1224-3884, 2014.
https://www.bipcons.ce.tuiasi.ro/Archive/379.pdf
46. **Paula Caraiman (Cojocaru)**, Andrzej Bialowiec, Matei Macoveanu, *Studies upon the seeds germination and roots elongation under coditions of soil pollution with heavy metals*, Buletinul Institutului Politehnic din Iaşi, secţiunea Chimie şi inginerie chimică, LVII(LXI), fascicol 2, pag. 51-58, ISSN: 0254-7104, 2011.
http://www.bipcic.icpm.tuiasi.ro/2010-2015.html#2011_2

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. **Paula Cojocaru**, *Phytotoxkit a Method to Determining Lead Toxicity on Plant Seed of Rye*, Bulletin of the Polytechnic Institute of Iasi, Section Hydrotechnics, Vol. 65 (69), nr. 3-4, pag. 69-75, ISSN 1224-3892, 2019.
2. **Paula Cojocaru,** Ioan Cojocaru, *Research on the influence of climate and of the Danube hydrological regime levels on the groundwater in an area from Big Island to Brăila*, Bulletin of the Polytechnic Institute of Iasi, Section Hydrotechnics, Tomul LXI (LXV), Fasc. 1-2, pag. 55-60, ISSN 1224-3892, 2015.
3. **Paula Cojocaru**, Florian Statescu, *Studies upon the quality status of a terrain occupied by a sugar manufacturing waste deposit*, International Scientific Congress – Life sciences, a challenge for the future, Iaşi, România, 23 – 25 Octombrie, Revista Lucrari Stiintifice vol.57, nr.1, pag. 289 – 294, ISSN 1454-7376, 2014.
4. Ioan Cojocaru, **Paula Cojocaru,** *Study regarding the functional efficiency of drains situated in Danube´s dyke zone*", Buletinul Institutului Politehnic din Iaşi, secţiunea Hidrotehnică, LI (LV), fascicol 1-4, pag. 103 -112, ISSN: 1224-3892, 2005.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

- Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

1. **Paula Cojocaru**, Florian Statescu, Gabriela Biali, *Toxicity of soil pollution with petroleum on plant seeds*, The 19th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.575-582, vol. 19, Water Resources. Forest. Marine and Ocean Ecosystems, issue 3.2, ISBN 978-619-7408-82-9, 2019.
2. Gabriela Biali, **Paula Cojocaru,** Petra Schneider, *Research concerning the improvement of the characteristics of soils affected by landslide,* The 19th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.341-348, vol. 19, Water Resources. Forest. Marine and Ocean Ecosystems, issue 3.2, ISBN 978-619-7408-82-9, 2019.
3. Gabriela Biali, **Paula Cojocaru**, *Use of GIS technique for hydrological modeling of sheet erosion,* The 18th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 2 July – 8 July, Conference Proceedings, pag.705-712, vol. 18, Informatics, Geoinformatics and Remote Sensing, issue 2.3, ISBN 978-619-7408-41-6, 2018.
4. **Paula Cojocaru**, Gabriela Biali, *Dimensional calculations for the sanitary protection zones of a water catchment,* The 17th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 29 June – 5 July, Conference Proceedings, pag.199-207, ISBN 978-619-7408-04-1, 2017.
5. Gabriela Biali, **Paula Cojocaru**, *Monitoring the evolution of gullies in a water catchment by GIS techniques,* The 17th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 29 June – 5 July, Conference Proceedings, pag.611-618, ISBN 978-619-7408-03-4, 2017
6. **Paula Cojocaru**, Gabriela Biali, *Method of calculation of the drip irrigation water requirement of an orchards in the Moldavian Central Plateau,* The 16th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.211-218, ISBN 978-619-7105-62-9, 2016

7. Gabriela Biali, **Paula Cojocaru**, *Use of GIS technique to design landslide risk assessment maps for agricultural land,* The 16th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, 30 June – 6 July, Conference Proceedings, pag.579-590, ISBN 978-619-7105-60-5, 2016
8. Gabriela Biali, **Paula Cojocaru**, *GIS Applied in assessing water erosion,* The 15th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 18 – 24, Conference Proceedings, pag.871-882, ISBN 978-619-7105-35-3, 2015.
9. Gabriela Biali, Petra Schneider, **Paula Cojocaru**, *Use of GIS in surface water monitoring for targeted policy intervention in a mountainous catchment in Romania,* The 15th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 18 – 24, Conference Proceedings, pag.1191-1198, ISBN 978-619-7105-35-3, 2015.
10. **Paula Cojocaru**, Florian Statescu, *Calculus method of the flushing out dynamics through flooding of the industrial polluted soils,* The 14th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 17 – 26, Conference Proceedings, pag.113-120, ISBN 978-619-7105-17-9, 2014.
11. **Paula Cojocaru**, Florian Statescu, *Ecological rehabilitation of a terrain occupied by a waste deposit from manufacturing of the sugar,* The 14th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 17 – 26, Conference Proceedings, pag.229-236, ISBN 978-619-7105-17-9, 2014.
12. **Paula Cojocaru**, *Phytotoxicity of cadmium and zinc on Brassica napus, sinapsis alba and spinacia oleracea using two soil types,* The 13th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 16 – 22, Conference Proceedings, pag.619-626, ISBN 978-619-7105-02-5, 2013.
13. Iuliana Breaban, Madalina Paiu, **Paula Cojocaru**, Igor Creţescu, *Studies upon the groundwater quality index of the aquifer from Barlad middle basin",* The 13th International Multidisciplinary Scientific Geoconference, Albena, Bulgaria, June 16 – 22, Conference Proceedings, pag.317-324, ISBN 978-619-7105-02-5, 2013.

- Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date

1. **Paula Cojocaru**, *The influence of the nutrients and the soil pH on Cadmium and Zinc uptake by the Brassica napus",* Lucrările seminarului geografic internaţional „Dimitrie Cantemir", Iaşi, România, 18 – 20 Octombrie, Proceeding nr.36, pag. 65-71, ISSN 1222-989X, 2013.
2. **Paula Caraiman (Cojocaru)**, Matei Macoveanu, Ioan Cojocaru, *Studies towards the determination of the contamination level with heavy metals of a situ located in Iasi*", The 53rd International Scientific Conference Durable Agriculture - present and perspectives, Iaşi, România, 21 – 23 Octombrie, Conference Proceedings, pag. 77 – 81, ISSN 1454-7414, 2010.

J. Invenţii.

K. Contracte de cercetare

Participare la următoarele proiecte:
1. Proiect ROSE AG 260/25.11.2019, Proiectează-ti viitorul la Hidrotehnică, Geodezie și Ingineria Mediului - BE SMART, Proiectul privind Învățământul Secundar (ROSE), funcția: expert tutorat, contract nr.21724/30.09.2021.

2. Proiect POCU/626/6/13/130661 Stagii de PRACTICĂ performante pentru studenţii Universităţii Tehnice Gheorghe Asachi Iaşi – PRACTIC, funcția Expert grup ţintă şi angajabilitate, contract 22371/09.03.2022.
3. Acord de grant nr. AG 325/SGU/PV/III din data de 18.06.2020, Școala de vară – Alege să fii inginer la HIDRO! – InginerIS, funcția: expert activități didactice, contract nr.21429/02.07.2021.

L. Premii, distincţii.

1. Premiul de excelenta 2018, medalia Gh. Asachi la categoria cercetatorul cu cele mai bune performante in cercetarea stiintifica – Manifestarea: Premii de excelență în cercetarea științifică din Universitatea Tehnică "Gheorghe Asachi" din Iași (TUIasi) / noiembrie 2018.
2. Premiere articol: *Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (Brassica napus)*, **Paula Cojocaru**, Zygmunt Mariusz Gusiatin, Igor Cretescu, Environmental Science and Pollution Research, vol. 23, no.11, pag. 10693-10701, ISSN: 0944-1344, June 2016, Manifestarea: P1 – Dezvoltarea sistemului national de cercetare –dezvoltare, Subprogram 1.1 - Resurse umane - Premierea rezultatelor cercetarii - Articole - Competitia 2016/decembrie 2016.

M. Alte realizări semnificative.

- membru al Consiliului Departamentului de Hidroameliorații şi Protecţia Mediului din anul 2021.
- membru în subcomisia de Evaluarea și Asigurarea Calității din cadrul facultății (CEAC), din anul 2020.
- coordonator al programului de studii Ingineria și Protecția Mediului în Agricultură din anul 2024.
- membru în comisia de licență la specializarea IPMA și comisia de disertație specializarea IMFM din anul 2024.
- membru AGIR (Asociatia Generala a inginerilor din Romania) din anul 2018, legitimatie nr. 63061.

Specializări în domeniul disciplinelor susținute şi alte specializări:

- Curs "EMpowering Educators through EMI (English as Medium of Instruction)", perioada:03.09.-27.09.2024 – obținere Certificat de competențe lingvistice
- Curs de instruire privind redactarea lucrărilor științifice cu respectarea normelor de etică și integritate academică derulat în cadrul proiectului CNFIS-FDI-2023-F-0039 cu titlul: "Creșterea calității procesului didactic prin revizuirea planurilor de învățământ și introducerea unor ghiduri de scriere a programelor pe baza rezultatelor învățării-PROG-RESS", 2023
- Curs specializare "Calitate, etica si integritate academică" în cadrul proiectului:„Reţea de laboratoare metodice pentru testarea şi aplicarea mecanismelor de succes de predare și evaluare, identificate sau dobândite în procesul de perfecţionare continuă a personalului didactic- REMET-LAB", perioada: 03 noiembrie - 28 noiembrie 2020.
- Curs specializare Competențe cheie comune mai multor ocupații. Comunicare în limba engleza, in perioada 18 octombrie 2019 – 9 noiembrie 2019.
- Curs perfectionare perioada octombrie – decembrie 2017 cu titlul: „Perfectionarea personalului didactic din universitate prin aprofundarea metodelor postmoderne de predare – invatare – evaluare"

- Participare mobilitate prin programul Erasmus+ la Pulse of Mind International Staff Week 2026 organizat de Pulse of Mind în Palermo, perioada: 12-16 Octombrie 2026.
- Participare mobilitate prin programul Erasmus+ la NOVA International Staff Week – Nova ISW 2025 organizat de ”The International Mobility Unit of NOVA University Lisbon, perioada: 12-16 Mai 2025.
- Participarea la un stagiu de cercetare in perioada 01.03.2011-01.06.2011 la Universitatea Warmia and Mazury, Facultatea de Protectia mediului si pescuit din Olsztyn, Polonia.

Data,
05.10.2026

Semnătura,
Conf.univ.dr.ing. Paula Cojocaru

Lista de lucrări în domeniul de studii universitare de licență
Ecodesign si Tehnologii Sustenabile

Numele şi prenumele: **Dîrțu Evagrina**

A. Teza de doctorat.

Instituție: Universitatea „Alexandru Ioan Cuza" din Iași
Perioadă: 2010-2013
Îndrumător: Prof. univ. dr. Alexandru Călinescu
Titlul tezei: *Le Réalisme magique dans le roman français d'après 1900*
Titlul: Doctor în domeniul Filologie, Diploma seria H, nr. 0018526, Ordin MECTS 5581MD din 03.12.2013

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Dîrțu, E., „Nostalgie et résistance à la nostalgie dans la fictionnalisation du communisme", in Patrizia Gasparini et Estelle Zunino (dir.), *Nostalgie. Conceptualisation d'une émotion*, PUN – Éditions Universitaires de Lorraine, Nancy, Franța, 2021, ISBN – 978-2-8143-0600-4, p.257-275 - **capitol**

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Dîrțu, E., *Le Réalisme magique et le roman français*, ed. Institutul European, Iași, 2023, ISBN 978-606-24-0369-0, [editură clasificată A în Filologie, CNCS]
2. Dîrțu, E., *Rire et poésie (quelques réflexions sur la poésie de Raymond Queneau, Henri Michaux, Jacques Prévert*), ed. RISOPRINT, Cluj, 2023, ISBN 978-973-53-3079-8 [editură clasificată C în Filologie, CNCS]
3. Dîrțu, E., *Le français pour les filières architecture*, ed. Performantica, Iasi, 2023, ISBN – 978-630-328-012-7
4. Dîrțu, E., *English Practice for Technical Students*, ed. Performantica, Iasi, 2017, ISBN: 978-606-685-560-0, 90 p.
5. Dîrțu, E., „Le Temps des premières rencontres. La littérature de jeunesse – discours privilégié de la découverte du monde", in D.M. Popa (coord.), *La Rencontre ou le moment zéro du narratif*, Editura Stef, Iași, 2016, ISBN 978-606-575-592-5, p. 141-152 (**capitol**)
6. Dîrțu, E., „Revrăjirea lumii. Realismul magic între postcolonialism şi postmodernism", in A. Mihalache şi A. Cioflâncă (coord.), *Istoria recentă altfel: perspective culturale*, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, mai 2013, ISBN 978-973-703-883-8, p. 1009-1016 (**capitol**)

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Dîrțu, E., 2023, *Suport seminar_Limba franceză*, limbistraine.tuiasi.ro/Resurse.html
2. Dîrțu, E., suport de curs, 2019, *Limba engleză*, limbistraine.tuiasi.ro/Resurse.html
3. Dîrțu, E., 2019, *Support de cours – Français scientifique et technique*, limbistraine.tuiasi.ro/Resurse.html

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Ó Laoire, M., Baciu, I., Braund, H., Brogan, K., Dîrțu, E., Hurley, M., Walsh, S., *Internationalisation and Interculturalism in Three European Contexts: A Brief Review of*

Literature, in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Universității Tehnice „Gheorghe Asachi", Iași, 71/2025, ISSN 1224-5860, p. 9-22; indexare CEEOL (https://www.ceeol.com/search/journal-detail?id=1505)

2. Dîrțu, E., *Nature and Culture in the American Gothic (Ioana Baciu),* in *Les Cahiers Linguatek*, 2601-0313, vol. 7 (no.13/14), 2023, p. 287-289, indexare CEEOL, Fabula
3. Dîrțu, E., „Temps traumatique, temps impossible. Une lecture magico-réaliste du *Livre des Nuits* de Sylvie Germain", *Les Cahiers Linguatek*, Iași, editura Performantica, 7-8/2020, p.184-195; indexare Fabula, CEEOL (https://www.ceeol.com/search/article-detail?id=914646)
4. Dîrțu, E., „Quelques aspects de l'ambiguïté proustienne", in *Les Cahiers Linguatek*, Iași, editura Performantica, 3-4/2018, ISSN 2559-7752, p.188-194; indexare Fabula (https://www.fabula.org/actualites/les-cahiers-linguatek-no-3-4-l-ambiguite_88232.php)
5. Dîrțu, E., „Rire et Poésie", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Politehnium, 64/1-2/2018, ISSN 1224-5860, p. 55-59; indexare CEEOL (https://www.ceeol.com/search/journal-detail?id=1505)
6. Dîrțu, E., „Métamorphose et fiabilité narrative", in *Les Cahiers Linguatek*, Iași, editura Performantica, 1-2/2017, ISSN 2559-7752, p. 69-73, indexare Fabula (https://www.fabula.org/actualites/les-cahiers-linguatek_81731.php)
7. Dîrțu, E., „Terminology Teaching Strategies in the English Specific Purposes Class", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Politehnium, 62/2016, ISSN 1224-5860, p. 9-14; indexare CEEOL (https://www.ceeol.com/search/article-detail?id=539561)
8. Dîrțu, E., „La chambre (im)mobile des *Enfants terribles*" in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LXII (LXVI), editura Politehnium, 2016, ISSN 1224-5860, p. 27-31 (https://www.ceeol.com/search/article-detail?id=1168721)
9. Dîrțu, E., „Possibility and Certainty. The Rhetoric of Magical Realism in *Sleep* by Haruki Murakami", in *Buletinul Ştiinţific al Universităţii "Mihail Kogălniceanu"*, vol. 23, nr. 1, Cugetarea, Iaşi, 2014, p.51-60; indexare CEEOL, Copernicus (https://www.ceeol.com/search/article-detail?id=48822; http://journals.indexcopernicus.com/issue.php?id=9358&id_issue=877809)

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. Dîrțu, E., „Stratégies syntaxiques, narratives et thématiques de la (dé)construction identitaire dans *Amour bilingue*", in *Interculturel Francophonie* no.34, ***„Abdelkébir Khatibi: le penser-écrire d'un intellectuel perspectiviste"***, ed. Alliance Française Lecce, Italia, nov.-dec. 2018, ISBN 978-88-95343-32-7 ; ISSN 2240-6263; indexare EBSCO (https://openurl.ebsco.com/EPDB%3Agcd%3A11%3A24938267/detailv2?sid=ebsco%3Aplink%3Acrawler&id=ebsco%3Agcd%3A134589379&link_origin=www.google.com), Fabula (https://www.fabula.org/actualites/interculturel-francophonies-n-34-novdec-2018-abdelkebir-khatibi-le-penser-ecrire-d-un_88343.php)

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Dîrțu, E., „La littérature et l'imaginaire", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LXI (LXV), editura Politehnium, 2015, ISSN 1224-5860, p. 33-40
2. Dîrțu, E., „Spatialité et temporalité dans *Le Rivage des Syrtes* de Julien Gracq. De l'extérieur, à travers, vers l'intérieur", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LX (LXIV), editura Politehnium, 2014, ISSN 1224-5860, p. 63-69

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Dîrțu, E., „Entre temps cyclique et temps linéaire – temps, littérature, théologie", in Evagrina Dîrțu, Ioana Baciu (eds.), *Autour et à travers/În jurul și de-a lungul*, (Lucrările Simpozionului CRU TUIASI), Politehnium, 2022, ISBN 978-973-621-508-7, p.167-180, indexare fabula.org, CEEOL
2. Dîrțu, E., „Ironie ou sérieux du rire chez Michel Tournier dans *Le Roi des Aulnes*", in *Petit éloge de l'ironie. Actes du colloque international Journées de la Francophonie XXIVe édition*,

textes réunis par Felicia Dumas, Junimea, Iași, 2019, ISBN 978-973-37-2315-8, p. 122-131, indexare CEEOL

3. Dîrțu, E., **„**L'Altérité aimantée et la guerre. Quelques considérations sur *Le Rivage des Syrtes*" in *Francophonie et curiosité(s)*. Actes du colloque international Journées de la Francophonie XXIe édition, Iasi, 25-26 mars 2016, textes réunis par Felicia Dumas, éditions Junimea, Iaşi, 2017, ISBN 978-973-37-2016, p. 181-190, indexat Fabula.org
4. Dîrțu, E., „But Can We Do It Without Grammar?" Possible Answers in Foreign Languages Classs", in N.M. Iftimie și O.C. Rusu (coord.), *Discourse and Communicative Interaction*, Editura Politehnium, 2016, ISBN 978-973-621-455-4, p. 129-140
5. Dîrțu, E., „Magical Realism and Recipes of Cultural and Literary Anti-Hegemony. Theoretical Considerations", in D.M. Popa și N.M. Iftimie (coord.), *Relația identitate-alteritate și stereotipurile socio-culturale*, editura Performantica, 2015, ISBN 978-606-685-278-4, p. 94-99
6. Dîrțu, E., „Technical Academic Writing. Some Observations in an Applied Analysis", in *Limbaje aplicate in mediul academic*, editura Performantica, 2014, ISBN 978-606-685-235-7, p. 77-92
7. Dîrțu, E., „Le vraisemblable mis à jour. Une étude sur *Le Livre des Nuits* (Sylvie Germain)" in *Le recyclage culturel entre parasitisme, atrophie de l'imaginiare et invention seconde*. Actes du colloque international Journées de la Francophonie XVIIIe édition, Iasi, 29-30 mars 2013, textes réunis par Felicia Dumas, Editura Junimea, Iaşi, 2014, ISBN 978-973-37-1738-6, p. 50-60, indexat Fabula.org
8. Popescu (Dîrțu), E., „Réalisme magique et la démocratie du sacré. *La Sorcière* de Marie NDiaye", in *Text şi discurs religios*, Nr. 4/2012, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, ISSN 2066-4818, p. 367-375, indexare Index Copernicus
9. Dîrțu, E., „Le Réalisme magique - un discours du monde réenchanté. Une étude sur Michel Tournier", in *Critical discourse and linguistic variation. New investigation perspectives: receptions, analyses, openings*, Nr. I, Editura Universităţii „Ştefan cel Mare", Suceava, 2011, ISBN 978-973-666-372-7, p. 99-102, indexat Fabula.org

J. Invenţii.

K.Contracte de cercetare/granturi.

1. Membru in proiectul "Achieving Internationalisation through best practice in Modern Foreign Language and Intercultural Communication pedagogies", proiect câștigat și finanțat în cadrul Alianței universitare INGENIUM în urma apelului de constituire de grupuri de cercetare interuniversitare, 20.000 euro, coordonator proiect MTU, parteneri TUIASI, URN, HIS, 2024-2025
2. Titular, co-responsabil proiect - « Le Français mon atout. Employabilité et plurilinguisme » dans le cadre de l'Appel à manifestation d'intérêt dédié au 30ème anniversaire de l'AUF-ECO, Convention AUF-ECO-2024 DRECO-8394 / 23.04.2024, 900 euro
3. Titular, co-responsabil proiect - « Transversal(ité) dans l'Univers(ité). Développement et renforcement des compétences transversales chez les étudiants et les enseignants des filières techniques et d'architecture : communication, transdisciplinarité, autonomie », Convention AUF-ECO-535/18.05.2021, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi", 3.000 euro, 2021-2022
4. Titular, co-responsabil proiect - « SCIPO_UNIV : Le Pendule de Foucault -Science et Poésie dans l'Univers(ité) » în cadrul apelului AUF-ECO *Renforcement des capacités transversales des enseignants-chercheurs et la coopération interuniversitaire sur des projets synergiques* Convention AUF-ECO-535/29.05.2017, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi" Iasi), 5.000 euro, ian. 2019-iulie 2020
5. Titular, co-responsabil proiect - « Communication plurilingue et attitude entrepreneuriale chez les étudiants des sections techniques et d'architecture : compétences linguistiques et employabilité », Convention AUF-ECO-535/29.05.2017, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi", 5.000 euro, 2017-2018
6. Membru în proiectele - CNFIS-FDI-2025-F-0103, „Sinergii pentru Internaționalizarea Sustenabilă a TUIASI la nivel European și Mondial (SISTEM)", CNFIS-FDI-2024-F-0016, „Rethinking Skills for Internationalisation - iSKILLS"; ERASMUS-EDU-2022-EUR-UNIV, Id

101090042-INGENIUM, „INGENIUM Alliance of European Universities, INGENIUM, ca expert din partea TUIASI în pachetul de lucru 9 „INGENIUM for Non-discriminatory and Socially Engaged Higher Education", axa 3- „A multilingual and intercultural Alliance"; membru în proiectul SMILE 621433-EPP-1-2020-1-BE-EPPKA3-IPI-SOC-IN /2023; membru în proiectul ROSE, AG 348/SGU/SS/III - Susținerea tinerilor ingineri-manageri STIM@DIMA, 2023; membru în proiectele de internaționalizare CNFIS-FDI-2023-F-0457, „Noi convergențe de internaționalizare la TUIASI – iAGILE"; „Internaționalizare prin cunoaștere transferabilă și vizibilitate (iTRANSFER)", CNFIS-FDI-2022-0021, „Internaționalizare prin Multiculturalism și Oportunități de Valorizare a Experiențelor (I-Move)"–CNFIS-FDI-2021-0426 ; „Internaționalizare creativă la TUIASI – INTER-BUZZ"–CNFIS-FDI-2020-0157; ERASMUS+ K103 – 2019-1-RO01-KA103-061457; „Internaționalizarea educației la TUIASI – INTERES TUIASI"–CNFIS-FDI-2019-0021; „Acces direct prin internaționalizare digital – DIGITALinTUIASI" – CNFIS-FDI-2018-0006; „Internațional la puterea t"–CNFIS-FDI-2017-0206

7. Membru în proiectul *Massive open online courses with videos for palliative clinical field and intercultural and multilingual medical communication* – 2014-1-RO01-KA203-002940, finanțat de Comisia Europeană prin programul KA2, membru în echipa științifică de dezvoltare și traducere a materialelor didactice și a cursului online, UMF Iasi, 2017

L. Premii, distincţii.

M. Alte realizări semnificative.

Traduceri de carte publicate la edituri CNCSIS sau internaționale:

1. A.V. Nesteruk, *Lumina de la Răsărit. Teologie, ştiinţă şi tradiţie ortodoxă răsăriteană*, Editura Patriarhiei, Editura Universității București, Editura Universității Iași, Bucureşti, 2017, co-traducător (traducere din lb. engleză)
2. *Teaching Contemporary Southeast European History*. Vol. I *The Cold War.* Vol. II *Wars, Divisions, Integration*, Neven Budak si Alexei Kalionski (eds.), Center for Democracy and Reconciliation in Southeast Europe, cu asistența Uniunii Europene, Thessaloniki 2016, membru în echipa de traducere (trad. din lb română)
3. Luce Irigaray: *Între Orient şi Occident*, Institutul European, Iaşi, 2010 (trad. din lb. franceză)
4. M. Pinçon, M. Pinçon-Charlot: *Sociologia burgheziei*, Institutul European, Iaşi, 2010 (trad. din lb. franceză)
5. P. Breton: *Convinge fără să manipulezi*, Institutul European, 2009 (trad. din lb. franceză)
6. Jean-Marie Secca, *Reprezentările sociale*, Institutul European, Iaşi, 2008 (trad. din lb. franceză)
7. Tanja Borzel, *Politicile europene de mediu, între succes şi eşec*, Institutul European, Iaşi, 2007 (trad. din lb. engleză)
8. J. Bremmer, H. Roodenburg, *O istorie culturală a umorului*, Institutul European, Iaşi, 2006 (trad. din lb. engleză)
9. I. Solcanu, *Romanian Art and Society*, traducere în colaborare cu Irina Scurtu, Editura Enciclopedică, Bucureşti, 2004 (trad. din lb. română)

Data: 19.10.2026

Nume, prenume
Dîrțu, Evagrina

Semnătura .....

Lista de lucrări în domeniul de studii universitare de licenţă în matematică

Numele şi prenumele: Romaniuc Simona-Luiza

A. Teza de doctorat.

Instituţie: Universitatea "Alexandru-Ioan Cuza" din Iasi
Perioada: 1noiembrie 2004-30 octombrie 2008, sustinere publica: 30 ianuarie 2009
Coordonator: Peof. dr. Vasile Oproiu
Titlul tezei: *Structuri de tip lift natural pe fibratele tangent si cotangent*
Titlul: Doctor in Matematica

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS):

1. Negoescu, N., Bejan, C.L., **Druţă-Romaniuc, S.L.***, Special Types of Metrics*, 201 pg, Editura Stef, Iași, 2014, ISBN 978-606-575-431-7.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale:

1. **Druţă-Romaniuc, S. L.**, (α, ε)-structures of general natural lift type on cotangent bundles, Recent Topics in Differential Geometry and its Related Fields: Proceedings, 2020
2. **Druţă - Romaniuc, S. L.,** On cotangent bundles, Recent Topics In Differential Geometry And Its Related Fields-Proceedings, 2019
3. **Druţă - Romaniuc, S. L.,** General natural *(α,ε)*−structures, Mediterr. J. Math. 15 (2018), 228, 13 pp., ISI.
4. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *Almost paracontact structures on Kaluza-Klein spaces,* J. Geom. 108 (2017), 663–673,

baza de date Scopus.

4. **Druţă-Romaniuc, S. L.**, Inoguchi, J. I., Munteanu, M. I., Nistor, A. I*., Magnetic curves in cosymplectic manifolds*, Reports on Mathematical Physics, 78 (2016), 33 – 48, ISI.
5. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *H-projectively Euclidean Kahler tangent bundles of natural diagonal type,* Publ. Math. Debrecen, 89, 4 (2016), 499 – 511, ISI.
6. Bejan, C. L., Druţă - Romaniuc, S. L., *Harmonic functions and quadratic harmonic morphisms on Walker spaces,* Turk. J. Math, 40 (2016), 1004-1019, ISI.
7. **Druţă-Romaniuc, S. L.**, Inoguchi, J. I., Munteanu, M. I., Nistor, A. I*., Magnetic curves in Sasakian manifolds*, Journal of Nonlinear Mathematical Physics, 22 (2015), 3, 428 – 447, ISI.
7. Bejan, C. L., **Druţă - Romaniuc**, S. L., *F-geodezics on manifolds*, Filomat, 29 (2015), 10, 2367–2379, ISI.
8. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *The projective curvature of the tangent bundle with natural diagonal metric*, Filomat, 29 (2015), 3, 401- 410, ISI.
9**. Druţă - Romaniuc, S. L.,** *A Study on the Para-Holomorphic Sectional Curvature of Para-Kähler Cotangent Bundles*, An. Stiint. Univ. “Al. I. Cuza” Iasi, Mat. (N.S.), 61 (2015), 1, 253-262.
9. Bejan, C. L., **Druţă - Romaniuc, S. L***., Structures Which are Harmonic with Respect to Walker Metrics,* Mediterr. J. Math., 12 (2015), 481–496, ISI.

10. Bejan, C. L., **Druţă - Romaniuc, S. L.**, *Harmonic almost complex structures with respect to general natural metrics,* Mediterr. J. Math., 12 (2014), 123-136, ISI.
12. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *Walker manifolds and Killing magnetic curves*, Diff.Geom.Appl., 35(2014),106-116, ISI.
13. **Druţă-Romaniuc, S. L.**, *Riemannian almost product and para-hermitian cotangent bundles of general natural lift type,* Acta Math. Hung., 139 (2013), 3, 228-244, ISI.
14. **Druţă -Romaniuc, S. L.**, Munteanu, M. I., *Killing magnetic curves in a Minkowski 3-space*, Nonlinear Analysis: Real World Applications, 14 (2013), 1, 383-396, ISI.
15. **Druţă-Romaniuc, S. L.**, *Para-Kahler tangent bundles of constant para-holomorphic sectional curvature,* B. Iran. Math. Soc., (2012), 955-972, ISI.
16. Bejan, C. L., **Druţă - Romaniuc, S. L.**, *Connections which are harmonic with respect to general natural metrics*, Diff. Geom. Appl., 30 (2012), 4, 306-317, ISI.
17. **Druţă-Romaniuc, S. L.**, *General natural Riemannian almost product and para-Hermitian structures on tangent bundles,* Taiwanese J. Math., 16 (2012), 2, 497-510, ISI.
18. **Druţă-Romaniuc, S. L.**, *Natural diagonal Riemannian almost product and para-Hermitian cotangent bundles,* Czechoslovak Mathematical Journal, 62, 4 (2012), 937-949, ISI.
19. **Druţă S. L.**, *Quasi-Constant Holomorphic Sectional Curvatures of Tangent Bundles with General Natural Kahler Structures,* An. Ştiint. Univ. Al. I. Cuza Iaşi. Mat. (N.S.), 58(2012), 181-193, ISI.
20. **Druţă, S. L.**, Piu, P., *Geodesicity and isoclinity properties for the tangent bundle of the Heisenberg manifold with Sasaki metric*, Turk. J. Math, 36 (2012), 2, 331-343, ISI.
21. **Druţă-Romaniuc, S. L.**, Oproiu, V., *Tangent Sphere Bundles which are η−Einstein,* Balkan. J. Geom. Appl., 16 (2011), 2, 48-61, ISI.
22. **Druţă-Romaniuc, S. L.**, Oproiu, V., T*he holomorphic φ-sectional curvature of tangent sphere bundles with Sasakian structures,* An. Ştiinţ. Univ. Al. I. Cuza Iaşi, Mat., 57 (2011), Suppl., 75-86, ISI.
23. **Druţă S.L.**, *Classes of general natural almost anti-Hermitian structures on the cotangent bundles,* Mediterranean J. Math, 8 (2011), 161-179, ISI.
24. **Druţă-Romaniuc, S. L.**, Munteanu M. I., *Magnetic curves corresponding to Killing magnetic fields in E^3,* Journal of Mathematical Physics 52, 113506 (2011), Doi:10.1063/1.3659498:1-11, ISI.
25. **Druţă, S. L.**, *The Holomorphic Sectional Curvature of General Natural Kahler Structures on Cotangent Bundles,* An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.), 56 (2010), 1, 113-130, ISI.
26. **Druţă S. L.**, Oproiu V., *Tangent Sphere Bundles of Natural Diagonal Lift Type,* Balkan. J. Geom. Appl., 15 (2010), 53-67, ISI.
27. **Druţă, S. L.**, *Cotangent Bundles with General Natural Kahler Structures,* Rev. Rou. Math. Pures Appl., 54 (2009), 13-23, baza de date Scopus.
28. **Druţă, S. L.**, *Kaehler-Einstein Structures of General Natural Lifted Type on the Cotangent Bundles,* Balkan J. Geom. Appl., 14 (2009), 30-39, baza de date Scopus.
29. **Druţă, S. L.**, Oproiu, V., *General Natural Kahler Structures of Constant Holomorphic Sectional Curvature on Tangent Bundles*, An. Ştiinţ. Univ. Al. I. Cuza Iaşi, Mat., 53 (2007), 1, 149-166, baza de date Scopus.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **Druţă-Romaniuc S. L.**, *(α,ε)−structures of general natural lift type on cotangent bundles,* Recent Topics in Differential Geometry and its Related Fields, Proceedings of the 6th International Colloquium on Differential Geometry and its Related Fields, Veliko Trnovo, Bulgaria, 4-8 September 2018, Toshiaki Adachi and Hideya Hashimoto, Editors, World Scientific, 2019, 63-81, ISBN 978-981-120-668-9.
2. **Druţă S. L.**, *Other classes of tangent bundles with general natural almost anti-Hermitian structures,* Proceedings of the International Conference of Differential Geometry and

Dynamical Systems, October 8-11, 2009, Bucharest, Romania, Geometry Balkan Press 2010, 84-98, ISSN 1843-2654.

3. **Druţă, S. L.**, *Cotangent Bundles with General Natural Kahler Structures of Quasi - Constant Holomorphic SectionalCurvatures,* Differential Geometry : Proceedings of the VIII International Colloquium, Santiago de Compostela, Spain, 7-11 July 2008, World Scientific, 2009, 311-315, ISBN 13978-981-4261-16-6.
4. **Druţă, S. L.**, *The Sectional Curvature of the Tangent Bundles with General Natural Lifted Metrics,* Geometry, Integrability and Quantisation, June 8-13, 2007, Varna, Bulgaria, Ivailo M. Mladenov, Editor, Softex, Sofia 2008, 198-209, ISBN 954-8495-42-2.
5. **Druţă, S. L.**, *Conformally Flat Tangent Bundles with General Natural Lifted Metrics,* Contemporary Geometry and Topology and Related Topics, Cluj-Napoca, August 19-25, 2007, Dorin Andrica, Sergiu Moroianu Editors, Cluj University Press 2008, 153-166, ISSN: 1844-5403.
6. **Druţă, S. L.**, *The Projective Curvature of the Complete Lift of a Symmetric Linear Connection,* Scientific Annals of the U.S.A.M.V Ion Ionescu de la Brad- Iaşi, 48 (2005), 289-302, ISSN 1454-7376.

J. Invenţii.

K. Contracte de cercetare/granturi.

- POSDRU/89/1.5/S/49944, *Dezvoltarea capacităţii de inovare şi creşterea impactului cercetării prin programe post-doctorale*, Universitatea “Alexandru Ioan Cuza” Iaşi 2010, membru al grupului țintă, 1 iulie 2010 - 31martie 2013 (director al proiectului cu titlul *Structuri de tip lift natural pe fibratele tangent, cotangent*, *tangent in sfere si aplicatii in magnetostatica*).

-CNCSIS TD-158/2007, *Structuri de tip lift natural pe fibratele tangent şi cotangent*, 1.10.2007-30.10.2008, director;

- CNCSIS Grant A Nr. 1463/2005, *Noi structuri geometrice pe varietăţi riemanniene şi complexe,* 2005-2007, membru;

- CEEX Grant ET Nr.5871/2006, *F-structuri pe varietăţi diferentiabile şi proprietăţi de Biarmonicitate,* 2006-2007, membru;

- CNCSIS Grant AT Nr.191/2006, *Conditia Palais-Smale si tehnici de reducere pentru aplicatii biarmonice,*2006-2007, membru.

L. Premii, distincţii: Premii CNCSIS în cadrul competițiilor de Premierea rezultatelor cercetării, pentru lucrările:

1. **Druţă - Romaniuc, S. L.,** General natural (α,ε)-structures, Mediterr. J. Math 15 (2018), 228: 13pp.
2. Bejan, C. L., **Druţă - Romaniuc, S. L***., Structures which are Harmonic with Respect to Walker Metrics,* Mediterr. J. Math., 12 (2015), 481–496.
3. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *The projective curvature of the tangent bundle with natural diagonal metric*, Filomat, 29 (2015), 3, 401-410.
4. Bejan, C. L., **Druţă - Romaniuc, S. L.,** *F-geodesics on manifolds*, Filomat, 29 (2015), 10, 2367–2379.
5. Bejan, C. L., **Druţă - Romaniuc, S. L.**, *Harmonic almost complex structures with respect to general natural metrics,* Mediterr. J. Math., 11(2014), 123-136.
6. Bejan, C. L., **Druţă - Romaniuc, S. L**., Walker manifolds and Killing magnetic curves, Diff. Geom. Appl., 35 (2014), 106-116.
7. **Druţă -Romaniuc, S. L.**, Munteanu, M. I., *Killing magnetic curves in a Minkowski 3-space*, Nonlinear Analysis: Real World Applications, 14 (2013), 1, 383-396.
8. **Druţă, S.L.**, Oproiu, V., *Tangent Sphere Bundles of Natural Diagonal Lift Type,* Balkan. J. Geom. Appl., 15 (2010), 53-67.

M. Alte realizări semnificative: *Prelegeri invitate la universități de prestigiu:.*

1. Cercetător invitat la “Universita degli studi di Cagliari”, Italia (în lista ARWU 2014): **20 Februarie - 20 Martie 2009,** cu prelegerile:
   “Geometric strucutres of general natural lifted type on the tangent and cotangent bundles”,
   “On some classes of geodesics on the tangent bundle of the Heisenberg group with Sasaki metric”;

   Septembrie 2012, cu prelegerea: *“Killing magnetic curves on tridimensional spaces”.*

2. *Organizare workshop ”*Geometry Days -TUIASI 2018” - Joint workshop between Nagoya Institute of Technology, Japan, and "Gh. Asachi" Technical University of Iasi, Romania. (Local organisers: Marcel Roman and Simona Druta-Romaniuc).

Data,
10.09.2026

Lista de lucrări în domeniul de studii universitare de licenţă

Numele şi prenumele: Prună Liviu

A. Teza de doctorat

Grafica asistată de calculator în studiul mecanismelor, conducător: prof.dr.ing. Vasile Merticaru

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Andrei Slonovschi, Liviu Prună, Irina Ignătescu-Manea, Ioana-Roxana Baciu, „Infografică.Autocad", Editura PIM, 2024, pg.215, ISBN 978-606-13-8168-5.
2. Liviu PRUNĂ, Alina Angelica ANGHEL, Vanda Ligia DĂNĂILĂ, Andrei SLONOVSCHI, „Bazele desenului tehnic industrial", Editura Performantica, Iași, 2022, ISBN -978-606-685-913-4, pg.219
3. Slonovschi, A., Prună L., „Infografică Autocad - Comenzi ce permit selectarea și editarea obiectelor", Editura PIM, Iași, 2019, ISBN 978-606-13-5285-2, pg. 208.
4. Slonovschi, A., Prună L., „Infografică AutoCAD – Comenzi de desenare", Editura PIM, Iași, 2016, ISBN 978-606-13-3423-0,229 pg.
5. Slonovschi, A., Prună L., „Infografică. AdvanceCAD", Editura PIM, Iași, 2015, ISBN 978-606-13-2247-3, 233 pg.
6. Slonovschi, A., Prună, L., "Infografică. Noţiuni introductive", Editura PIM, Iaşi, 2014, ISBN 978-606-13-2086-8, 212 pg
7. Prună, L., Slonovschi, A., „Infografică", Editura PIM, Iași, 2014, ISBN 978-606-13-1883-4, 341 pg.
8. Slonovschi, A., Prună, L., Antonescu, I., „Desen Tehnic pentru Construcţii" Editura PIM, Iași, 2010, ISBN 978-606-13-0021-1, 310 pg
9. Prună, L., Anghel, A., Antonescu, I., Romanescu C., Slonovschi, A., „Sistem Expert Pentru Stabilirea Tipului de Ajustaj, Alegere a Câmpului de Toleranţe şi Determinarea Valorilor Abaterilor Limită în Proiectarea Asistată de Calculator, Editura Politehnium, Iaşi,2009, ISBN 978-973-621-253-6, 197 pg.
10. Slonovschi, A., Anghel, A., Antonescu, I., Prună, L., Romanescu C., „Poliedre", Editura PIM, Iaşi, 2009, ISBN 978-606-520-466-9, 141 pg.;
11. Dănăilă, W., Anghel, A., Antonescu, I., Prună, L., Romanescu, C., Slonovschi, A., „Infografică. Aplicaţii în Desenul Tehnic Industrial", Editura PIM, Iaşi, 2008, ISBN 978-973-716-945-7, 255 pg.;
12. Andrei Slonovschi, Alina Anghel, Ion Antonescu, Wanda Dănăilă, Liviu Prună, Camelia Romanescu, Infografică. Îndrumar de laborator, 2007, Editura PIM, ISBN 978-973-716-718-7, 150 pg;
13. Prună L., Slonovschi A., Antonescu I., „Geometrie descriptivă", Editura Societăţii Academice „Matei-Teiu Botez", Iaşi, 2006, (ISBN (10) 973-7962-95-8; ISBN (13) 978-973-7962-95-9), 177 pg.;
14. Slonovschi A., Prună L., Antonescu I., „Geometrie descriptivă. Aplicaţii", Ed. Tehnopress, Iaşi, 2006, (ISBN 10 973-702-331-5, ISBN 13 978-973-702-331-5), 257 pg.;
15. Anghel A. A., Prună L. „Desen tehnic cu AutoCAD", Ed. Tehnopress, Iaşi, 2005 (ISBN 973-702-149-5) 150 pg.
16. Prună Liviu, Slonovschi Andrei, Antonescu Ion, Popescu Felicia „Geometrie Descriptivă", Ed. Cermi, Iaşi, 2002 (ISBN 973-8188-25-3), 220 pg.

17. Popa C-tin., Strobel Gh., Anghel A., Prună L., Onofrei L., Romanescu C., Dănăilă W., Antonescu I., "Desen tehnic. Desen industrial. Elemente pentru desen de instalaţii. Elemente de grafică asistată de calculator.", Ed. Gh. Asachi, Iaşi, 1996 (ISBN 973-9178-36-7) 512 pg.
18. Popescu F., Prună L. Antonescu I. "Elemente de grafică tehnică asistată de calculator. Îndrumar de lucrări pentru studenţii facultăţii de Textile-Pielărie"., Ed. Junimea, Iaşi, 1997 (ISBN 973-37-0276-5) 41 pg.
19. Prună L., Merticaru V. „ Aplicaţii ale graficii asistate de calculator în studiul mecanismelor", Editura VIE, Iaşi, 1999 (ISBN 973-99048-1-5) 391 pg.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Palamaru M., Rusu I., Prună L., and Ciobanu C. "A comparative study by thermal analysis of polyurethanes interacted with metallic ions", Termochimica Acta, 230 (1993) 235-242, Elsevier Science Publishers Bv., Amsterdam. SSDI 0040-6031(93)01154-U;

2. Palamaru M., Rusu I., Prună L., and Ciobanu C. "A thermal degradation comparative study of polyesterurethane based on 4,4'- diphenylmethane di-isocianate interacted with „d-block metallic cations" Termochimica Acta, 235 (1994) 217-223, Elsevier Science Publishers Bv., Amsterdam. SSDI 0040-6031(93)01556-I;

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Popa Constatin, Antonescu Ion, Prună Liviu „Résolution des problèmes de sections planes dans des polyèdres et des corps cylindro-coniques a l'aide des systèmes de dessin assistes par l'ordinateur", Buletinul I.P.Iasi, Tomul XLIV(XLVIII), Fasc.3-4, 1998;
2. Prună Liviu, Antonescu Ion "O metodă grafică de sinteză dimensională a mecanismelor bielă-manivelă", Analele Universităţii "Aurel Vlaicu", Arad, Seria Mecanică, Fascicola Mecanică, Mecanisme, Organe de Maşini, Tehnologii de Prelucrare Convenţionale şi Neconvenţionale, 2000 (ISSN 1582-3393);
3. Prună Liviu, Antonescu Ion "O metodă grafică de sinteză dimensională a mecanismelor plane patrulatere articulate", Analele Universităţii "Aurel Vlaicu", Arad, Seria Mecanică, Fascicola Mecanică, Mecanisme, Organe de Maşini, Tehnologii de Prelucrare Convenţionale şi Neconvenţionale, 2000 (ISSN 1582-3393);
4. Antonescu Ion, Prună Liviu, Zugrăvel Mircea „Computer code for modeling of 3D subsonic compressible flows in CAD environment", Buletinul I. P. Iaşi, Tomul XLVI (L), Supliment Mecanica Fluidelor, Secţia Construcţii de Maşini, 2000 (ISSN 1011-2855);
5. Prună Liviu, Antonescu Ion , Zugrăvel Mircea „Modeling of potenţial subsonic compressible flows by finite element analysis", Buletinul I. P. Iaşi, Tomul XLVI (L), Supliment Mecanica Fluidelor, Secţia Construcţii de Maşini, 2000 (ISSN 1011-2855).
6. Prună Liviu, Antonescu Ion, Slonovschi Andrei "Contribuţii privind folosirea unor locuri geometrice în sinteza dimensională a mecanismelor plane patrulatere", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de Nord, Baia Mare, 2001 (ISSN 1224-3264);
7. Prună Liviu, Antonescu Ion, Slonovschi Andrei "O nouă metodă grafică de sinteză

dimensională a mecanismelor cu culisă rotativă", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de Nord, Baia Mare, 2001 (ISSN 1224-3264);
8. Antonescu Ion, Slonovschi Andrei, Prună Liviu "Grafica computerizată, conceptul de vizualizare, structurală şi problema intersecţiilor de poliedre", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de Nord, Baia Mare, 2001 (ISSN 1224-3264);
9. Prună Liviu, Antonescu Ion, Slonovschi Andrei „3D Complex bodies for CAD Systems Using Constructive Geometry", Buletinul I.P. Iaşi, Tomul XLVII (LI), Fascicola 3-4, Secţia Construcţii şi Arhitectură, 2001;
10. Prună Liviu, Antonescu Ion, Slonovschi Andrei „Hiperboloid of Revolution for Constructive Geometry", Buletinul I.P. Iaşi, Tomul XLVIII (LII), Fascicola 1-2, Secţia Construcţii şi Arhitectură, 2002.
11. Antonescu Ion, Roşca Radu, Prună Liviu, Slonovschi Andrei "Complex characteristics of pressure variation in the admission manifold and burning chamber of an experimental mono cylinder engine", Buletinul I.P. Iaşi, Tomul L(LIV), Fasc. 6D, 2004, Secţia Construcţii de Maşini.
12. Alina Anghel, Liviu Prună, Cercetări privind un sistem integrat pentru alegere automată a stării suprafeţei, toleranţelor şi ajustajelor în proiectarea asistată de calculator I, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
13. Alina Anghel, Liviu Prună, Cercetări privind un sistem integrat pentru alegere automată a stării suprafeţei, toleranţelor şi ajustajelor în proiectarea asistată de calculator II, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
14. Ion Antonescu, Alina Anghel, Liviu Prună, Camelia Romanescu şi Andrei Slonovschi, Contribuţii la achiziţia şi reprezentarea cunoştinţelor în cadrul unui sistem expert pentru alegerea toleranţelor ajustajelor în proiectarea asistată de calculator I, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
15. Ion Antonescu, Alina Anghel, Liviu Prună, Camelia Romanescu şi Andrei Slonovschi, Contribuţii la achiziţia şi reprezentarea cunoştinţelor în cadrul unui sistem expert pentru alegerea toleranţelor ajustajelor în proiectarea asistată de calculator II, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
16. Liviu Prună, Andrei Slonovschi, Ion Antonescu, A Comparative Study Concerning The Possibilities To Measure The Angle Between Two Cross Straight Lin, Acta Technica Napocensis, Series Applied Mathematics and Mechanics, 52, Vol I a, ISSN 1221 – 5872, pg. 337-340
17. Andrei Slonvschi, Liviu Prună, Ion Antonescu The 3d Modeling Of The Longitudinal Reinforcements From A Reinforced Concrete Beam, Acta Technica Napocensis, Series Applied Mathematics and Mechanics, 52, Vol I a, pg. 365 – 368
18. Slonovschi, A., Prună, L., Antonescu, I., Comparative Study Of 2D, 2.5D and 3D Computer Graphics Representation Of A Civil Engineering Structure, U.S.A.M.V. "Ion Ionescu De La Brad" Iaşi Lucrări Ştiinţifice Seria Horticultură Vol. 53,Nr. 1 Ed "Ion Ionescu De La Brad", Iaşi, ISSN–L=1454-7376, 2010
19. Antonescu I., Prună L., Slonovschi A., Alecu I., Cucoş I., Generation Of 3d Geometrical Solid Model Of Micro Water Turbine Rotor Blades, An Ecodesign Challenge, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011
20. Prună L., Barreau M., Slonovschi A., Antonescu I., The Method Of Revolution Difficulties And Solutions, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011

21. Slonovschi A., Prună L., Antonescu I., Comparative Study On The Graphical Representation Of The Intersection Between Two Surfaces, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011
22. Slonovschi A., Prună L., Antonescu I., Computer Aided Representation Of The Revolution Of A Line, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Secţia Construcţii de Maşini, 2011
23. Prună L., Slonovschi A., ChoosePanels a computer program for panels design in civil engineering, Scientific Bulletin of the "POLITEHNICA" University of Timişoara, TRANSACTIONS on HYDROTECHNICS, Romania, ISSN 1224-6042, Tom 58 (72), Fascicola 1, 2013, pg. 27-30.
24. Slonovschi A, Prună L. Determination of Some Dimensioning Characteristics in the Computer Assisted Drawings Case in the Civil Engineering Buletinul Ştiinţific al Universităţii „POLITEHNICA“ din Timişoara, Tom 58(72), Fascicola 1, 2013, TRANSACTIONS on HYDROTECHNICS
25. Prună L., Slonovschi A., PowerPoint use in building self assessment tests for geometry descriptive discipline, Scientific Bulletin of the "POLITEHNICA" University of Timişoara, TRANSACTIONS on HYDROTECHNICS, Romania, pg. 229 – 232, ISSN 1224-6042, Tom 58 (72), Fascicola suplimentară, 2013 (Nu-i BDI această lucrare).
26. Slonovschi Andrei, Prună Liviu, Techniques For Establish Optimal Values Of Dimensioning Variables Used In Correct Printing Of The Technical Drawing, Universitatea De Stiinłe Agricole Si Medicină Veterinară “Ion Ionescu De La Brad” Iasi Lucrări Stiinłifice, Seria Horticultură, Nr.1, Vol 57, pg 31-36, 2014, ISSN–L=1454-7376 (Print)-ISSN 1454-7376 (Online)=ISSN 2069-8275
27. Slonovschi Andrei, Prună Liviu, E-Line, A Computer Program Used In E-Learning, Universitatea De Stiinłe Agricole Si Medicină Veterinară “Ion Ionescu De La Brad” Iasi Lucrări Stiinłifice, Seria Horticultură, Nr.2, Vol 57, pg 29-34, 2014
28. Prună Liviu, Slonovschi Andrei, Parametric Drawings vs. AutoLISP, Revista JIDEG, Vol.10, Special Issue, fascicle 3, pg.47-50, 2015
29. Slonovschi Andrei, Prună Liviu, Study On The Level Of Assimilation By The Students Of The Fundamental Knowledge From The Technical Drawing, Revista JIDEG, Vol.10, Special Issue, fascicle 5, pg.21-24, 2015
30. Slonovschi, A. Prună, L. Determining the intersection line of two planes by comuter help, Lucrări ştiinţifice vol. 59, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2016, Iaşi, Romania, ISSN 1454-7376, pag. 23 - 28
31. Liviu Prună, Slonovschi Andrei, Building A Pergola In Cad Systems, Revista JIDEG, No 12, Issue 1, 2017, pg 137-140
32. Slonovschi Andrei, Liviu Prună, Computer Graphical Representation, In Treble Orthogonal Projection, Of A Point, Revista JIDEG, No 12, Issue 1, 2017, pg 241-246
33. Prună Liviu, Slonovschi Andrei, Automatic Graphical Simulation of How to Determine the True Size Segment by Changing Projection Plan, Lucrări ştiinţifice vol. 61, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2018, Iaşi, Romania, ISSN 1454-7376
34. Prună Liviu, Slonovschi Andrei, Workflows Used in Design of the Decorative Elements from a Garden, Lucrări ştiinţifice vol. 61, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2018, Iaşi, Romania, ISSN 1454-7376
35. Liviu PRUNA, Andrei SLONOVSCHI, Specifying A Plane By Using Of The Dihedral Angle, Revista JIDEG, Vol.14, No 1, Issue 1, 2019, pg 41-44.
36. Andrei SLONOVSCHI, Liviu PRUNA, Computer Program Which Provides Automatic Determination Of Some Characteristic Necessary For Correct Dimensioning And Printing Of The Technical Drawing For Construction, Revista JIDEG, Vol.14, No 1, Issue 1, 2019, pg 175-178.
37. Slonovschi Andrei, Prună Liviu, Metric problems for determining distances: Descriptive

Geometry vs. AutoCaD, Lucrări Ştiinţifice Seria Horticultură, Vol. 63 (1) / 2020, USAMV Iaşi, ISSN 1454-7376, 2020, pag.137 – 142.
38. Slonovschi Andrei, Prună Liviu, The use of the mathematical curves in the obtaining process of the specific ornaments of the decorative elements from a garden, Lucrări Ştiinţifice Seria Horticultură, Vol. 63 (1) / 2020, USAMV Iaşi, ISSN 1454-7376, 2020, pag.143 – 148.
39. Prună Liviu, Slonovschi Andrei, The building process' automatization of the furniture for rest from a garden, Lucrări Ştiinţifice Seria Horticultură, Vol.64 / 2021, USAMV Iași, ISSN 1454 – 7376, 2021, pag. ?.
40. Prună Liviu, Slonovschi Andrei, Common mistake in the representation in triple orthogonal projection of cylindrical-conical and methods for their elimination, Lucrări Ştiinţifice Seria Horticultură, Vol.64 / 2021, USAMV Iași, ISSN 1454 – 7376, 2021, pag. ?.
41. I-R Baciu, D N Isopescu, M L Lupu, S G Maxineasa, L Pruna and S Dan, Ventilated façade solutions, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
42. M L Lupu, D N Isopescu, I-R Baciu, S G Maxineasa, L Pruna and R Gheorghiu, Hempcrete - modern solutions for green buildings, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
43. S G Maxineasa, D N Isopescu, M L Lupu, I-R Baciu, L Pruna and C Somacescu, The use of perlite in civil engineering applications, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
44. Andrei Slonovschi, Liviu Prună, Computer-Assisted Determination Of The Developments Of Polyhedra And Intersection Polygons Determined By The Intersection Of Two Or More Polyhedra, Revista JIDEG, Vol. 17, No. 2, pg. 51 – 54, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022
45. Liviu Prună, Andrei Slonovschi, Visualisation Of Intersection Curves Resulting From The Intersection Of Two Cylindrical-Conical Surfaces, Vol. 17 No. 1, 2022, pg 43 – 46, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022
46. Liviu Prună, Andrei Slonovschi, Using Free Contours To Obtain Specific Ornaments For Decorative Elements In A Garden, JIDEG Vol. 18, pg 9 – 12, ISSUE 1, Online ISSN 2344-4681, Print ISSN 1843-3766, 2023
47. Prună L., Slonovschi A., The Automatic Plotting Of The Arcs Of Circle In The Chamfered Hexagonal Prism Case Representation, JIDEG, Vol 19 ISSUe 1, pg. 27-30, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024
48. Baciu, I.R., Prună L., Slonovschi A., Maxineasa, S., G., The Transformative Impact Of Advanced Graphics Technologies And Computer-Generated Imagery In Civil Engineering, JIDEG, Vol 19 ISSUe 1, pg. 77-82, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

a. *Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale din România:*

1. Popa Constantin, Anghel Alina, Romanescu Camelia, Prună Liviu, Antonescu Ion, Segal Liviu, "Metodologia de abordare a proiectării asistate de calculator cu aplicaţii în geometrie descriptivă şi desen", Al III-lea Seminar Naţional de Geometrie Descriptivă şi Desen, 2-3 octombrie 1992, Cluj-Napoca;
2. Popa Constantin, Antonescu Ion, Prună Liviu, Romanescu Camelia, Anghel Alina, "Standarde internaţionale pentru desenare şi proiectare asistată ", Al III-lea Seminar Naţional de Geometrie Descriptivă şi Desen, 2-3 octombrie 1992, Cluj-Napoca;
3. Romanescu Camelia, Anghel Alina, Prună Liviu, "Proiectarea asistată de calculator a

formei constructiv-tehnologice a pieselor obţinute prin turnare în construcţia de maşini", Al III-lea Seminar Naţional de Geometrie Descriptivă şi Desen, 2-3 octombrie 1992, Cluj-Napoca;
4. Anghel Alina, Romanescu Camelia, Prună Liviu, "Reprezentarea pe calculator a secţiunii în tor cu un plan bitangent", Al III-lea Seminar Naţional de Geometrie Descriptivă şi Desen, 2-3 octombrie 1992, Cluj-Napoca;
5. Popa Constantin, Antonescu Ion, Prună Liviu, "Rezolvarea problemelor de secţiuni plane în poliedre şi cilindro-conice cu ajutorul sistemelor de desenare asistată de calculator", Sesiunea Jubiliară – „45 de Ani de Învăţământ Superior la Galaţi", octombrie, 1993;
6. Popa Constantin, Prună Liviu, Antonescu Ion, "Rezolvarea problemelor de construcţii geometrice întâlnite în desenul tehnic utilizând sistemele de desenare asistată de calculator", Sesiunea Jubiliară – „45 de Ani de Învăţământ Superior la Galaţi", octombrie, 1993;
7. Popa Constantin, Prună Liviu, Antonescu Ion, "Optimizarea sistemului AutoCAD prin crearea de noi comenzi", Al IV-lea Seminar Naţional de Geometrie Descriptivă şi Desen, Iaşi, iunie 1994;
8. Popa Constantin, Prună Liviu, Antonescu Ion, "Grafica asistată de calculator, o necesitate", Al IV-lea Seminar Naţional de Geometrie Descriptivă şi Desen, Iaşi, iunie 1994;
9. Popa Constantin, Antonescu Ion, Prună Liviu, "Posibilităţi de automatizare a execuţiei desenelor prin utilizarea facilităţilor de proiectare parametrică ale programului AutoCAD", Al IV-lea Seminar Naţional de Geometrie Descriptivă şi Desen, Iaşi, iunie 1994;
10. Antonescu Ion, Popa Constantin Popescu Felicia, Prună Liviu, "Algoritm de determinare a secţiunilor plane în corpuri tridimensionale", Al V-lea Simpozion de Geometrie Descriptivă, Desen, Design şi Grafică asistată de calculator, Timişoara, 1996;

11. Popa Constantin, Prună Liviu, Antonescu Ion, Popescu Felicia "Program de derivare grafică utilizând facilităţile sistemelor CAD", Al V-lea Simpozion de Geometrie Descriptivă, Desen, Design şi Grafică asistată de calculator, Timişoara, 1996;
12. Popescu Felicia, Antonescu Ion, Prună Liviu, Popa Constantin "Automatizarea generării desenelor de ansamblu în sistemele CAD", Al V-lea Simpozion de Geometrie Descriptivă, Desen, Design şi Grafică asistată de calculator, Timişoara, 1996;
13. Antonescu Ion, Popescu Felicia, Prună Liviu, Ruse Gheorghe "Algoritm de generare a modelelor tridimensionale pe baza reprezentărilor în triplă proiecţie ortogonală în grafica asistată de calculator", A VII-a Ediţie a Conferinţei Naţionale cu Participare Internaţională Grafica 2000, Craiova (ISSN 1223-5296);
14. Antonescu Ion, Popescu Felicia, Prună Liviu "Sistem expert de modelare parametrică a organelor de distribuţie ale motoarelor cu ardere internă", A VII-a Ediţie a Conferinţei Naţionale cu Participare Internaţională Grafica 2000, Craiova (ISSN 1223-5296);
15. Prună Liviu, Antonescu Ion, Ruse Gheorghe, Popescu Felicia "Racordări când raza este necunoscută", A VII-a Ediţie a Conferinţei Naţionale cu Participare Internaţională Grafica 2000, Craiova (ISSN 1223-5296);
16. Ruse Gheorghe, Prună Liviu "Abwicklung des aufrechten Kreiskegels", A VII-a Ediţie a Conferinţei Naţionale cu Participare Internaţională Grafica 2000, Craiova (ISSN 1223-5296);
17. Prună Liviu, Popescu Felicia, Antonescu Ion, Slonovschi Andrei "Studiu comparativ privind tehnicile folosite pentru obţinerea liniilor de diferite grosimi", A VII-a Ediţie a Conferinţei Naţionale cu Participare Internaţională Grafica 2000, Craiova (ISSN 1223-5296).
18. Antonescu Ion, Prună Liviu, Popescu Felicia „Modul pentru cuadrice de rotaţie în geometria constructivă a solidului", Al VIII-lea Simpozion cu Participare Internaţională „Grafică Tehnică şi Design", 2003, Braşov (ISBN 973-635-195-5, 973-635-197-1).
19. Antonescu Ion, Prună Liviu, Popescu Felicia „Postprocesarea grafică a datelor în analiza cu elemente finite tridimensională" Al VIII-lea Simpozion cu Participare Internaţională „Grafică Tehnică şi Design", 2003, Braşov (ISBN 973-635-195-5, 973-635-197-1).
20. Pruna Liviu, Slonovschi Andrei, Antonescu Ion, „A computer program designated to writing tolerances on the technical drawing in AutoCAD", 2005, Bucuresti,ICEGD Proceedings

on the International Conference on Engineering Graphics and Design, Editura BREN, ISBN 973-648-471-8.
21. Slonovschi Andrei, Pruna Liviu, Antonescu Ion, "Computer program for the automatic representation of the rolled sections", 2005, Bucuresti, ICEGD Proceedings on the International Conference on Engineering Graphics and Design, Editura BREN, ISBN 973-648-471-8.
22. Liviu Prună, Andrei Slonovschi, Ion Antonescu, „Paraboloid of revolution as solid model", The 2nd International Conference on Engineering Graphics and Design, ICEGD 2007, Galaţi, Proceedings, Ed. Cermi Iaşi, ISBN 978-973-667-252-1.
23. Camelia Romanescu, Liviu Prună, Andrei Slonovschi, „Expert System Methodology" The 2nd International Conference on Engineering Graphics and Design, ICEGD 2007, Galaţi, Proceedings, Ed. Cermi Iaşi, ISBN 978-973-667-252-1.
24. Andrei Slonovschi, Liviu Prună, Ion Antonescu, „Individual Dimension Styles an Efficient Tool in Civil Engineering Computer Aided Design", The VII th International Symposium Computational Civil Engineering 2009, Iaşi, ISBN 978-973-8955-68-4.

b. *Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale*

1. Merticaru V., Prună L. "Computer graphics in the study of mechanisms", The Sixth IFToMM International Symposium on Linkages and Computer Aided Design Methods-Theory and Practice of Mechanisms, Bucharest, România, 1-5 iunie 1993;
2. Popa Constantin, Antonescu Ion., Popescu Felicia, Prună Liviu, "Programe AutoLISP de generare a unor corpuri tridimensionale", Conferinţa Internaţională "Grafica inginerească şi metodica de predare", Chişinău, Universitatea Tehnică a Moldovei, 3-4 octombrie 1995;
3. Popa Constantin, Prună Liviu, Antonescu Ion., Popescu Felicia, "Media, funcţie AutoLISP pentru generarea mediatoarei", Conferinţa Internaţională "Grafica inginerească şi metodica de predare", Chişinău, Universitatea Tehnică a Moldovei, 3-4octombrie 1995;
4. Slonovschi Andrei, Prună Liviu, Antonescu Ion „Program de calcul pentru determinarea în proiecţie cotată a formei acoperişurilor", Conferinţă tehnico-ştiinţifică internaţională Probleme actuale ale urbanismului şi amenajării teritoriului, Chişinău 30sept.-1oct. 2004, ISBN 9975-70-448-4, Vol. I.
5. Antonescu Ion, Pruna Liviu, Baran Marius, Romanescu Camelia „Groups and subgroups information in an expert system used for tolerances field" Conferinţa Ştiinţifică Internaţională „TMCR 2007", Chişinău, 31mai – 03 iunie 2007;
6. Pruna Liviu, Romanescu Camelia, Slonovschi Andrei, Anghel Alina – „Contribution to reprezentation knowledge from tolerances field in an expert system building process", Conferinţa Ştiinţifică Internaţională TMCR 2007, Chişinău, 31mai – 03 iunie 2007;
7. Maria Camelia Romanescu, Ion Antonescu, Liviu Prună, Alina Anghel, Knowledge representation database for the development of tolerances and fits in design, 19th DAAAM International Symposium, Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions, 22-25th October 2008, Trnava, Slovakia;
8. L. Pruna, I. Antonescu, A. Anghel, C. Romanescu, A. Slonovschi, Expert System for Setting the Fit Type, Choosing the Tolerance Fields and Determining of Limit Deviances in Computer Aided Design, International Conference "Inventics - Performance and Technical Creativity", 2008, pp. 782-783, ISBN 978-973-730-491-9

J. Invenţii.

1. Tobolcea V., Popescu D., Prună L., Gavrilaş. G. "Instalaţie de laborator pentru obţinerea şi măsurarea cantităţii de biogaz în condiţii criofile". CERTIFICAT DE INOVATOR NR. 1530;
2. Tobolcea V., Nistor I., Prună L. , "Instalaţie de laborator pentru obţinerea şi măsurarea cantităţii de biogaz în condiţii megafile şi termofile". CERTIFICAT DE INOVATOR NR. 1532;
3. Tobolcea V., Prună L., Nistor I. , "Dispozitiv de insuflare a aerului în apa uzată".

CERTIFICAT DE INOVATOR NR. 1533.

K. Contracte de cercetare.

1. Popa Constantin, Prună Liviu, ş.a., "Introducerea graficii asistate de calculator în procesul de pregătire a studenţilor la disciplina Geometrie Descriptivă şi Desen. Documentare asupra programelor folosite în ţară şi străinătate", Contract nr.7004/91, încheiat cu M.I.S.;
2. Popa Constantin, Prună Liviu, ş.a., "Pregătirea documentaţiei pentru folosirea programelor specializate de grafică asistată de calculator în desenul tehnic", Contract nr. 1080B/7464-93 Poz.B1-26, încheiat cu M.I.;
3. Popa Constantin, Prună Liviu, ş.a. "Elaborarea de programe didactice de grafică asistată de calculator pentru studenţi la Geometrie Descriptivă", Contract nr. 5002C/7463-93 Poz.C2-18, încheiat cu M.I.;
4. Popa Constantin, Prună Liviu, ş.a. "Elaborarea de programe didactice de grafică asistată de calculator pentru studenţi la disciplina Geometrie Descriptivă", Contract nr.5002/C Poz.B18, încheiat cu M.C.T.;
5. Popa Constantin, Prună Liviu, ş.a., "Realizarea de biblioteci parametrizate de repere specifice standardelor româneşti pentru sistemele de proiectare asistată de calculator", Contract nr. 3002/94-10116 Poz. C-23, încheiat cu M.I.
6. Director Grant CNCSIS, ”Sistem expert pentru stabilirea tipului de ajustaj, alegere a câmpurilor de toleranţe şi determinarea valorilor abaterilor limită în proiectarea asistată de calculator", Cod CNCSIS 249, Tema nr. 7, Contract nr. GR 217, 2006.
Sume: 58322, 33310.5, 35811;
7. Membru în echipa Grant-ului „Sisteme soft pentru simulare geometrică şi mecanică”, Contract nr. 133, CEEx II 03 din 02.10.2006.
8. Director Contract ANCS „Contract finanțare manifestări științifice” nr. 48M 10.05.2011, înregistrat cu numărul 10048 din 10.05.2011 – valoare 7000 lei.
9. Membru în echipa Grant-ului „Reducerea abandonului școlar al studenților din anul întâi prin activități remediale şi de consiliere în Centrul de Învățare din cadrul TU IAŞI (REMEDIUM)” Contract din proiectul ROSE nr. 83/SGU/CI/I 2018 – 2021, Valoare contract 906138 RON, director Prof.dr.ing. Niculai Eugen Seghedin.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data: 22.03.2025 **Conf.dr.ing. Liviu Prună**

LISTA DE LUCRĂRI ÎN DOMENIUL DISCIPLINELOR DIN POSTUL DIDACTIC

TITULAR: PARASCHIV PETRONELA

Teza de doctorat.
Contribuţii teoretice şi practice privind sisteme mecanice pentru recuperarea posttraumatică a articulaţiei cotului

A. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS sau (CNCS)

Paraschiv Petronela, CURS DE BASCHET PENTRU STUDENTII CU PROFIL TEHNIC, Editura PIM, 2024, ISBN 978-606-13-8868-4

Paraschiv Petronela, ACTIVITATI FIZICE SI JOCURI RECREATIVE, Editura PIM, 2024, ISBN 978-606-13-8869-1

Petronela Paraschiv, Ramona Cimpoeșu and Ciprian Paraschiv (2022) Improving the body's immunity against SARS-CoV-2 through exercise , Biomedical Engineering Applications for People with Disabilities and the Elderly in the COVID-19 Pandemic and Beyond, Editura Elsevier , ISBN: 978-0-323-85174-9

Petronela Paraschiv, Nicanor Cimpoeșu and Ciprian Paraschiv(2022) - Sedentarism- A predominant factor in difficult post-COVID-19 recovery, Biomedical Engineering Applications for People with Disabilities and the Elderly in the COVID-19 Pandemic and Beyond, Editura Elsevier , ISBN: 978-0-323-85174-9

***Paraschiv Petronela*,** Recuperarea post traumatică a articulației cotului- Contribuții teoretice și practice - , Editura Pim, 2016, ISBN: 978-606-13-3348-6

***Paraschiv Petronela*,** Recuperarea post traumatică a articulației cotului – Studii teoretice **- ,** Editura Pim, 2016, ISBN: 978-606-13-3349-3

***Paraschiv Petronela*,** Curs de handbal pentru studentii din invatamantul cu profil tehnic, Editura PIM, Iasi, 2016, ISBN: 978-606-13-3346-2

***Paraschiv Petronela*,** Fotbal – Lecții introductive pentru studenții din învățământul superior *cu profil tehnic(AN II*)Editura Pim, Iasi, 2016, ISBN: 978-606-13-3345-5

Ciprian Constantin*,* ***Petronela Paraschiv***, *The Football Game, the Competitive Environment and the Elusive Fan Attraction* în Economic Theory and Practice in Knowledge Society, Şcoala Doctorală de Economie, Universitatea "Al.I. Cuza" Iaşi, Editura Sedcom Libris, Iaşi, **2007**, pp.92-101, ISBN: 978-973-670-241-9

Ciprian Constantin, ***Petronela Paraschiv***, *Conferință de presă în cadrul organizaţiilor sportive, în Economia instituţională – o provocare pentru universitatea românească,* Editura Universităţii "Al.I. Cuza" din Iaşi, ***2007****,* pp. 239-247, ISSN: 0379 – 7864

Paraschiv Petronela**,** Bodybuilding – Îndrumar metodic pentru studenții din învățământul cu profil tehnic, Editura PIM,Iași, 2016, ISBN: 978-606-13-3344-8

Paraschiv Petronela, Handbal – Caiet de lucrari practice pentru studenții din învățamântul superior cu profil tehnic Editura Pim, Iasi, 2016, ISBN: 978-606-13-3346-2

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

C.Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. http://www.cmmi.tuiasi.ro/studenti/cursuri/
2. CURS-DE-BASCHET-PENTRU-STUDENTII-CU-PROFIL-TEHNIC-1.pdf – https://sim.tuiasi.ro/wp-content/uploads/2024/12/1
3. https://sim.tuiasi.ro/wp-content/uploads/2024/10/FOTBAL.pdf
4. https://sim.tuiasi.ro/wp-content/uploads/2024/12/ACTIVIT%C4%82%C8%9AI-FIZICE-%C8%98I-JOCURI-RECREATIVE_ParaschivPetronela-.pdf

D.Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Ionut Adomniței, Ramona Cimpoeșu, Daniela Lucia Chicet, Margareta Coteață, Fabian Cezar Lupu, Costică Bejinariu, Liviu Andrușca, Petronela Paraschiv, Mihai Axinte, Gheorghe Bădărău, Nicanor Cimpoeșu, Behavior of YSZ (High Y2O3 Content) Layer on Inconel to Electro-Chemical Corrosion, Materials, pg.1996-1944,Volume18, Issue2, 2025 F.I. 3.2, DOI10.3390/ma18020400, WOS:001404250000001, Q2

G.R. Chelariu 1, N. Cimpoeșu 1*, **P. Paraschiv** 1, B.A. Prisecariu 2,I. Rusu 1, I. Știrbu 1, G.I. Sandu 1, M. Benchea 3*, C. Bejinariu, Structural and Mechanical Properties of Hot Rolled CuAlBe Non-Spark Alloy Arch. Metall. Mater, Archives of Metallurgy and Materials, 2024, ISSN: 2300-1909, FI: 0,7, DOI: https://doi.org/10.24425/amm.2024.147817 . FI: 0,7 indexata WOS

Alexandra-Tamara Șutic,A, Cătălin Panaghie,B, Viorel Paleu,C,Ramona Cimpoeșu Ana-Maria Roman,E, Margareta Coteață,F,Liviu Andrușcă,G, Gheorghe Bădără,H, **Petronela Paraschiv3**,I,Nicanor Cimpoeșu, WEAR RESISTANCE OF AS-CAST ZNMGBIODEGRADABLE ALLOY, Innovative Manufacturing Engineering And Energy - Imanee2024, Materials Research Proceedings 46, ISSN 2474-3941, 2024, DOI: Https://Doi.Org/10.21741/9781644903377-33

M. Lutcanu, M. Coteata, M.A.Bernevig, C.D. Nechifor, M.M. Cazacu, **P.Paraschiv**, B.Istrate, B. Badarau, I.G. Sandu, N. Cimpoesu**,** Obtaining and Analyzing the Al2O3-ZrO2 Ceramic Layers on Metallic Substrate, Arch. Metall. Mater. 67 (2022), 2, 479-485/DOI:https://doi.org/10.24425/amm.2022.137780

Petronela Paraschiv , Ramona Cimpoeșu , Mihai Dumitru, Ciprian Paraschiv, The Kinematical Model of the Elbow Joint With One Degree of Freedom",International Proceedings of Human Motricity/ ICPESK 2019 Supplementary Issue of Discobolul- Physical Education, Sport and Kinetotherapy Journal, 2, DOI: 10.35189/iphm.icpesk.2019./

C Panaghie[1], R Cimpoesu[1], A Alexandru[1], M Bernevig[1], V Manole[1], A M Roman[1], B A Prisacariu[2], **P Paraschiv**[1] and N Cimpoesu[1] , (2022) Chemical and structural analyze of experimental biodegradable ZnMgY alloy, Published under licence by IOP Publishing LtdIOP Conference Series: Materials Science and Engineering, Volume 1037, 24th Innovative Manufacturing Engineering and Energy International Conference (IManEE 2020) 14th-15th December 2020, Athens, Greece **Citation** C Panaghie *et al* 2021 *IOP Conf. Ser.: Mater. Sci. Eng.* **1037** 012034

S.Dobrita , B. Istrate , N. Cimpoesu , S.Stanciu, V. Apostol, R. Cimpoesu, I Ionita and **P. Paraschiv**, Preliminary Results on the Corrosion Behaviour of a New Biodegradabile Mettalic Material Based on Zinc, IOP Conference Series: Materials Science and Engineering, Volume 374, conference 1, 2018

Ciprian-Constantin Paraschiv, **Petronela Paraschiv,** *Sports as business and the marketing strategy of the football club Politehnica Iasi*in revista ***Metalurgia International***, No.2, Domeniul Management si Marketing, Romanian Metallurgical Foundation Scientific Publishing House, Bucuresti, **2012**, pp. 90-93, **ISSN:1582-2214**

Petronela Paraschiv, Ciprian – Constantin Paraschiv, Iulian Dumitru, *Image creator strategy in sport media – "Technical University (UTI) Cup" Trophy woman's basketball* in revista Metalurgia International, No.2, Domeniul Management şi Marketing, Romanian Metallurgical Foundation Scientific Publishing House, Bucureşti, 2012, pp. 119-124, ISSN:1582-2214

N.Cimpoesu, S. Stanciu, I. Doroftei, I.Ionita, V. Radu*,* **P.Paraschiv** (2010) *Electrical behavior of a smart Nitinol spring under full*, Metalurgia International, domain Management and Marketing Vol. XVII, Nr. 12, 2012,pg.90-96,ISSN:1582-2214time constrain, in Optoelectronics and Advanced Materials-Rapid Communications, vol 4, no. 12

Ciprian-Constantin, **Petronela Paraschiv(2013)**, *Theoretical and practical contributions on violent supporter profiling using statistical research on PR in sport* in Revista *Metalurgia International*, No.12, Domeniul Management şi Marketing, Romanian Metallurgical Foundation Scientific Publishing House, Bucureşti, 2011, pp.110-113, ISSN: 1582-2214

Ciprian Paraschiv, **Petronela Paraschiv**, Ramona Cimpoesu, *Determination of the elbow joint resulting torso and obtaining customized numerical results,* Revista Procedia - Social and Behavioral Sciences 117, Elsevier, Science Direct, pp.522-528, ISSN: 1877-0428

Petronela Paraschiv, Nicanor Cimpoesu, Adela Ursanu, Ciprian Paraschiv, Cristina Stoica**,***Theoretical and experimental determination of the muscle strength for the kinetotherapy rehabilitation of the elbow joint after an immobilization period,* Revista Procedia - Social and Behavioral Sciences 117 Elsevier, Science Direct, 2013**,** pp.529-546, ISSN: 1877-0428

Ciprian Paraschiv, **Petronela Paraschiv**, Ramona Cimpoesu, *Usage of two freedom degree for modeling of a complex wrist,* 4th International Congress of Physical Education, Sport and Kinetotheraphy, UNEFS Bucharest, pp.363-369, ICSPEK, 2014

Petronela Paraschiv, Nicanor Cimpoesu, Ciprian-Constantin Paraschiv, *Radius deformations and stress appearance at external solicitations*, 4th International Congress of Physical Education, Sport and Kinetotheraphy, UNEFS Bucharest, pp.375-381, ICSPEK, 2014

Ciprian-Constantin,**Petronela Paraschiv**, *Damping capacity evolution in martensitic – austenitic range and influence on sport applications***,** Revista *Metalurgia*, Editura Ştiinţifică FMR, Bucureşti, (63), 7, 2011, pp. 63-69, ISSN: 0461-9579

Ciprian-Constantin, **Petronela Paraschiv**, Politehnica Iasi's fan decision factors, Revista Sport şi Societate, Publicaţie a Fundaţiei Altius Academy, Iaşi, nr.2 / **2009** (serie nouă), pp. 28-32, ISSN: 1582-2168

http://www.sportsisocietate.ro/articol/procentajul-factorilor-de-decizie-al-fanului-echipei-de-fotbal-politehnica-ia-i/4

The Positive Effects Of Practicing Fitness On The Body Composition Of Secondary School Students Vol. Xxiv, Issue, Gidu Diana Victoria1, Ibrahim Aliaa Abdelmoneim 2, Ahmed Nana Eldawy3, Oltean Antoanela1, Constantinescu Oana Verona4, **Paraschiv Petronela 5,** Calotă Nicoleta Daniela 1, Science, Movement And Health, 2024, Issn 2285-777xi, indexata in urmatoarele baze de date :ERIH PLUS, Ebsco, SPORTDiscus, INDEX COPERNICUS JOURNAL MASTER LIST,DOAJ DIRECTORY OF OPEN ACCES JOURNALS, Caby, Gale Cengage Learning, Cabell's Directories

Sedentarism And The Consequences Of A Sedentary Lifestyle Among Students, **Petronela Paraschiv,** Buletinul Institutului Politehnic , Univ. Tehnică Gheorghe Asachi din Iași,Vol.70(74), nr.3, 2024., Sectia Constructii de Mașini, Doi 10.2478/Bicpm-2024- 0013

Analysis Of Fracture Through Tension And Torsion Of 316l Stainless Steel, G Huțanu, L Andrușcă, M Popa, **P Paraschiv**, V Manole, I Știrbu, N Cimpoeșu, International Journal Of Modern Manufacturing Technologies, 2024, ISSN 20673604, DOI 10.54684/ijmmt.2024.16.2.65

The Influences Of Physical Exercises On The Nervous System, **Petronela Paraschiv**, Buletinul Institutului Politehnic, Univ. Tehnică Gheorghe Asachi din Iași,Vol.70(74), nr.3, 2024., Sectia Constructii de Mașini, Doi 10.2478/Bicpm-2024- 0012

Accident Prevention In Physical Education Lesson At The Faculty Of Machine Building And Industrial Management, **Petronela Paraschiv**, Buletinul Institutului Politehnic Din Iaşi, Univ. Tehnică Gheorghe Asachi din Iași,Vol.70(74), nr.3, 2024., Sectia Constructii de Mașini, Doi 10.2478/Bicpm-2024- 0010

The Role Of Aerobic Exercise On The Health Of The Human Body, **Petronela Paraschiv**, Buletinul Institutului Politehnic, Univ. Tehnică Gheorghe Asachi din Iași, vol.70(74), nr.1-4, 2024, Sectia Stiinta si Ingineria Materialelor

The Importance Of Exercise In The Prevention Of Occupational Diseases**, Petronela Paraschiv**, Buletinul Institutului Politehnic, 2024, Univ. Tehnică Gheorghe Asachi din Iași, vol.70(74), nr.1-4, 2024, Sectia Stiinta si Ingineria Materialelor, Issn 1453-169030/

The Role Of Psychological Training In The Complex Development Of Female Football Players, **Paraschiv Petronela**, Paraschiv Ciprian Constantin, Buletinul Institutului Politehnic, 2024, Univ. Tehnică Gheorghe Asachi din Iași, vol.70(74), nr.1-2, 2024, Sectia Stiinte Socio-Umane

Petronela Paraschiv, First aid during the physical education lesson, Publicat deUniversitatea Tehnică „Gheorghe Asachi" din Iaşi,volumul 69 (73), numărul 3-4, 2023,Secţia ŞTIINŢE SOCIO-UMANE

Petronela Paraschiv, Ciprian Paraschiv, The importance of muscle tone in the harmonious evolution of physical development, Publicat deUniversitatea Tehnică „Gheorghe Asachi" din Iaşi,volumul 69 (73), numărul 3-4, 2023,Secţia ŞTIINŢE SOCIO-UMAN,

Elena Basalic, Ioana Sorina Enţuc, CARMEN NEJNERU, RALUCA FLOREA, COSTEL DOREL FLOREA, ANA-MARIA SCRIPCARIU, ***PETRONELA PARASCHIV*** şi CIMPOEȘU NICANOR, O Scurtă analiză asupra cunoaşterii mortarelor cu inserţii micro şi nanometrice de diferite geometrii în domeniul ingineriei civile, Buletinul Institutului Politehnic din Iaşi Bulletin of the Polytechnic Institute of Iaşi Volumul 68 (72), Numărul 1-4, 2022

Petronela Paraschiv**,** Improving the body's immunity with the help ofnatural calming factors, diet and exercise, buletinul institutului politehnic din iaşi, Publicat deUniversitatea Tehnică „Gheorghe Asachi" din Iaşi,volumul 67 (71), numărul 3-4, 2021,Secţia ŞTIINŢE SOCIO-UMANE

Petronela Paraschiv, Ciprian Paraschiv, The most common wrong body postures among students and some methods to combat them –kyphosis, scoliosis and lordosis, Publicat deUniversitatea Tehnică „Gheorghe Asachi" din Iaşi,volumul 67 (71), numărul 3-4, 2021,Secţia ŞTIINŢE SOCIO-UMANE

Ana-Maria Roman, Carmen Nejneru, Ramona Cimpoeşu, Vasile Manole, ***Petronela Paraschiv***, Mihaela Antonovici, Adrian Alexandru şi Nicanor Cimpoeşu, Scurtă analiză a vitezei de coroziune a biomaterialelor metalice pe bază de fier, Buletinul Institutului Politehnic din Iaşi**,** volumul 64(68), Nr 1- 4, Secţia Ştiinţa şi Ingineria materialelor, Publicat de Universitatea Tehnică „Gh.Asachi" din Iaşi, Editura POLITEHNIUM, **2018**.

Petronela Paraschiv, Ciprian Constantin Paraschiv, Nicanor Cimpoesu, *Lightweight materials propose for upper limb recovery equipment***,** Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 1, Secţia Ştiinţa şi ingineria materialelor, Publicat de Universitatea Tehnică
„Gh.Asachi" din Iaşi, Editura POLITEHNIUM, 2011, pp. 63-71, ISSN: 1453-1690
Ciprian-Constantin, **Petronela Paraschiv,** *Posttraumatic regaining elbow functionality***,** Buletinul Institutului Politehnic din Iaşi**,** Tomul LVI (LX), Fasc. 4, Secţia Ştiinţa şi Ingineria materialelor, Publicat de Universitatea Tehnică „Gh.Asachi" din Iaşi, Editura POLITEHNIUM, **2010**, pp.37-41, ISSN: 1453-1690

Ciprian-Constantin,Paraschiv, ***Petronela Paraschiv***, *Theoretical contributions in posttraumatic recovery of elbow articulation, Buletinul Institutului Politehnic din Iaşi, Tomul LV (LIX), Fasc. 2, Sec*ţia Ştiinţe Socio-Umane, Publicat de Universitatea Tehnică „Gh. Asachi" din Iaşi, Editura POLITEHNIUM, 2009, pp. 37-42, ISSN: 1011-2855

Ramona Cimpoesu, Constantin Baciu, Sergiu Stanciu, Delia Marilena Aelenei, Nicanor Cimpoesu, ***Paraschiv Petronela***, *Behavior at electro-corossion of a Ti-Ni superelastic alloy through S.E.M. and E.D.A.X. techniques***,** Buletinul Institutului Politehnic din Iaşi, Bulletin of the polytechnic institute of Iaşi cat. B, tomul LVI (LX),, fasc. 1 2010, pg. 55-66, ISSN 1453-1690.
Paraschiv Petronela, *The concept of fair play, Buletinul Institutului Politehnic din Iaşi, Tomul LIV(LVIII)FASC2, 2008*
Ciprian-Constantin*,* ***Petronela Paraschiv***, Causes of sports brand decline, Buletinul Institutului Politehnic din Iaşi, Tomul LV (LIX), Fasc. 4, Secţia Ştiinţe Socio-Umane, Publicat de Universitatea Tehnică„Gh. Asachi" din Iaşi, Editura POLITEHNIUM, **2009**, pp. 37-42, ISSN: 1011-2855

ELucrări ştiinţifice publicate în reviste din străinătate.

F.Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

G. Lucrări ştiinţifice publicate în volumele conferinţelor.
(Ciprian Paraschiv, ***Petronela Paraschiv***, Ramona Cimpoesu, BorisConstantin), *Kinematical modeling of elbow joint with two freedom degree*, ***The International Congress of Physical Education, Sports and Kinetotherapy – 3rd Edition****,* Universitatea Naţională de Educaţie Fizică şi Sport din Bucureşti, Editura Discobolul, Bucureşti**, 2013, ISBN: 978-606-8294-61-2**

(***Petronela Paraschiv***, Nicanor Cimpoesu, Adela Ursanu, Ciprian Paraschiv), **Analyze of radius stress and stains, *The International Congress of Physical Education, Sports and Kinetotherapy – 3rd Edition,*** Universitatea Naţională de Educaţie Fizică şi Sport din Bucureşti, Editura Discobolul, Bucureşti**, 2013, ISBN: 978-606-8294-61-2**(

Ciprian Paraschiv, *Paraschiv Petronela,* Gabriel Cucuteanu) **- Relaţiile publice şi mixul de marketing în organizaţiile sportive**, Lucrarile Sesiunei Internaţionale de Comunicări Ştiinţifice *Tradiţie şi perspectivă în educaţie fizică şi sport*, Academia Naţională de Educaţie Fizică şi Sport din Bucureşti, **2007**, 7 pag., **ISBN: 978 – 973 – 718 – 755 – 0**

Ciprian Paraschiv, Gabriel Cucuteanu, ***Paraschiv Petronela***) **Program pentru pregătirea fizică a arbitrilor de fotbal în perioada precompetiţională,** Lucrările Sesiunei Internaţionale de Comunicări Ştiinţifice *Tradiţie şi perspectivă în educaţie fizică şi sport*, Editate de Academia Naţională de Educaţie Fizică şi Sport din Bucureşti, **2007**, 6 pag., **ISBN: 978 – 973 – 718 – 755 – 0**

(Oprisan C., Budescu E., ***Paraschiv P)*** **Aspects regarding the correlation between the biomechanical model of the elbow and the rehabilitation orthosis with two freedom degrees,** General poster session, 7th World Congress of Biomechanics, Boston, Massachusetts, 6-7 July 2014,*orthosis with two freedom degrees*

(Ursanu A., Stanciu S., Cimpoesu R., Adoroaie Cristian George, ***Paraschiv Petronela***, Bernevig Mihai), **NiTi Shape Memory Alloy Active Element Behavior**, International Conference Applied Mechanics and Materials Vol. 657 (2014) pp 387-391

© (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM

(***Petronela Paraschiv***, Ciprian Paraschiv) **Jogging-ul: o alternativă viabilă *şi perspective europene în cultură fizică şi sport*,** Universitatea Ştefan cel Mare din Suceava, 17-18 mai 2006 pentru studenţi de tratare a sedentarismului**,** Conferinţă Ştiinţifică Naţională *Tendinţe*, 17-18 mai 2006

Petronela Paraschiv, **Correction methods of the biomechanical model in the case of forearm movement**, Proceedings of 5th international conference advance concepts in mechanical engineering Iasi, 14-15 iunie, 2012

(*Petronela Paraschiv,* Ciprian Paraschiv), **Numerical results achieved through the dynamic shaping of the elbow joint,** ACME 2012, Proceedings of 5th international conference advance concepts in mechanical engineering Iasi, 14-15 iunie,2012

(Ciprian Constantin**, *Petronela Paraschiv*) Strategia de marketing a disciplinei de educatie fizica si sport**, Lucrările Sesiunei Internaţionale de Comunicări Ştiinţifice *Evaluare şi valorificare în cultură fizică şi sport*, Editate de Academia Naţională de Educaţie Fizică şi Sport din Bucureşti, **2006**, 6 pag., **ISBN: 978 – 973 – 0 – 04460 – 7**

(Craciun R.C., Stanciu S., Cimpoesu R., Ursanu A., Manole V.*,* ***Paraschiv P.*****,** Chicet D.L.**)** **Metallic materials for mechanical damping capacity applications** IOP Conference Series: Materials Science and Engineering
Volume 147, Issue 1, 2 September 2016, Article number 012031
7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016; Iasi; Romania; 9 June 2016 through 10 June 2016; Code 123857

H.Invenții.

I.Contracte de cercetare

J.Premii, distincții.

K.Alte realizări semnificativ

Data:

Semnătura

Conf.univ. dr. Paraschiv Petronela

Lista de lucrări în domeniul de studii universitare Ingineria Mediului

Numele şi prenumele: BUBURUZAN MARILENA ADELA
Gradul didactic: Șef lucrări, dr. ing.

A. Teza de doctorat

Instituţie: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Perioada: 2002–2011
Conducător ştiinţific: Prof. univ. dr. ing. Matei Macoveanu
Titlul tezei: Adela Marilena Haleţa (căs. Buburuzan), *„**Studii privind procesele de depoluare a unor fluxuri gazoase cu conţinut de compuşi organici volatili**"*, 275 p., 2011.
Titlul: DOCTOR în Inginerie Chimică, diplomă seria H nr. 0005522, Ordin MECTS 6468/7.12.2011.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. **Adela-Marilena Buburuzan**, *Tehnologii de protecţie a atmosferei - note de curs***,** Editura Ecozone, Iași, ISBN 978-606-8625-17-1, 2019;

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Cezar Catrinescu, **Adela Buburuzan**, Introducere în Ştiinţa Materialelor. Structura Materialelor – aplicaţii, Tipografia Universităţii Tehnice "Gheorghe Asachi" din Iaşi, Iaşi, 2008;

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Materiale suport *Managementul deșeurilor industriale* – materiale suport pentru curs, laborator și examen, online, platforma MS Teams, 2020, 2022 – 2026;
2. Materiale suport *Eco-labelling* – materiale suport pentru curs și seminar, online, platforma MS Teams, 2020 - 2024;
3. Materiale suport pentru disciplina *Tehnologii și echipamente pentru epurarea aerului* – curs și laborator, online, platforma MS Teams, 2024 – prezent;
4. Materiale suport pentru disciplina *Tehnologii și echipamente pentru epurarea aerului* – proiect, online, platforma MS Teams, 2024 – prezent;
5. Materiale suport pentru disciplina Analiza si sinteza proceselor tehnologice – curs (bilanțuri de materiale) și laborator, online, platforma MS Teams, 2020 – prezent;
6. Materiale Course: Eco-labelling și examen, platforma Moodle, https://edu.tuiasi.ro/course/view.php?id=4801#section-1;
7. Materiale suport de curs Tehnologii de protecţie a atmosferei, platforma http://www.didatec.ro/MyCourses.aspx, 2013;
8. Suport de studiu pentru laborator la disciplina Tehnologii de protecție a atmosferei, in sistem e-learnig, http://www.didatec.ro/MyCourses.aspx, 2013;
9. Materiale suport *Tehnologii de protecţie a atmosferei* – materiale suport pentru curs și laborator online, platforma MS Teams, 2020 – 2024;
10. Materiale suport Tehnologii de protecţie a atmosferei – materiale suport pentru proiect online, platforma MS Teams, 2020 – 2024;
11. Materiale suport pentru examenul la disciplina *Tehnologii de protecţie a atmosferei,* pe

platforma Moodle, https://edu.tuiasi.ro/course/view.php?id=4616, 2020, 2021

12. Materiale suport *Știința Materialelor* – materiale suport pentru laborator on-line, platforma MS Teams, 2020 – prezent;

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

a) Lucrări publicate în reviste cotate ISI (6):

1. S. Curteanu, G. D. Suditu, **A. M. Buburuzan**, E. N. Drăgoi, (2014), Neural networks and differential evolution algorithm applied for modelling the depollution process of some gaseous streams, *Environ. Sci. Pollut. Res*., **21** (22), 12856-12867, (FI = 2.76 (2014); 5.8 (2024).
2. **Buburuzan A.M.**, Catrinescu C., Macoveanu M., (2010), Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon, *Environmental Engineering and Mangement Journal*, **9** (1), 125-132, (FI = 1.435 (2010), 1.1 (2024))
3. **Buburuzan A.M.**, Macoveanu M., Cojocaru C., Catrinescu C., (2010), Experimental design to optimize the removal efficiency of *o*-xylene from gaseous flux by adsorption, *Journal of Environmental Protection and Ecology*, **11** (2), 623-635, (FI = 0.178 (2010), 0.507 (2024))
4. **Buburuzan A. M.**, Catrinescu C., Macoveanu M., (2009), Adsorption of *n*-hexane onto non-functionalized hypercrosslinked polymers and activated carbon: Thermodynamic and Kinetic studies, *Environmental Engineering and Mangement Journal*, **8** (2), 259-265, (FI = 0.885).
5. **Buburuzan (Haleţa) A.M.**, Catrinescu C., Macoveanu M., (2009), Adsorption of *n*-hexane onto non-functionalized hypercrosslinked polymers and activated carbon: Equilibrium studies, *Environmental Engineering and Mangement Journal*, **8** (1), 173-181, (FI = 0.885).
6. Giroir-Fendler A., Saadallah H., **Haleţa A.M.**, Intrinsic properties of noble metal in catalytic selective reduction of NOx by popene in lean burn conditions, *Environmental Engineering and Management Journal*, 3 (3), pp. 215-221, 2004.

b) Lucrări publicate în reviste recenzate incluse în baze de date internaţionale (4):

1. **Buburuzan A.M.**, (2023), Effects of the Relative Humidity of Atmosphere on Performance of n-Hexane Vapors Adsorption Under Static Conditions, *Buletinul Institutului Politehnic din Iaşi: Chimie şi Inginerie Chimică*, **Volumul 69 (73)**, Numărul 2, 67-79, DOI: 10.5281/zenodo.8162888
2. **Buburuzan A.M.**, (2020), Adsorptive Performance of Hyper-Crosslinked Polymeric Resins Compared to Granular Activated Carbon for Toluene Vapours, Under Static Conditions and in Humid Environment, *Buletinul Institutului Politehnic din Iaşi: Chimie şi Inginerie Chimică*, **Volumul 66 (70)**, Numărul 1, 9-20.
3. **Buburuzan A.M.**, Catrinescu C., Macoveanu M., (2011), Adsorption potential and kinetic of adsorption processes of hypercrosslinked polymeric resins and activated carbon for toluene vapors, *Buletinul Institutului Politehnic din Iaşi: Chimie şi Inginerie Chimică*, **Tomul LVII (LXI)**, Fasc.1, 11-23.
4. **Buburuzan A.M.**, Catrinescu C., Macoveanu M., (2010), Evaluation of the adsorption potentials and kinetics of two hypercrosslinked polymeric resins and activated carbon for hexane vapors, *Buletinul Institutului Politehnic din Iaşi: Chimie şi Inginerie Chimică*, **Tomul LVI (LX)**, Fasc.1, 191-202.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

a) Articol/studiu publicat în volume ale manifestărilor ştiinţifice internaţionale şi naţionale

ISI Proceedings: (1):

1. Elena Fasniuc Pereu, Gabriela Lisa, **Adela-Marilena Buburuzan** and Laura Bulgariu, *Functionalization of PET fibers with alginate: Structural and adsorptive characteristics*, Proceedings of the 13th International Conference on e-Health and Bioengineering, **EHB 2025**, Grigore T. Popa University of Medicine and Pharmacy Iasi, 13-14 November 2025, Hybrid Conference, Iași, Romania: EHB2025, IFMBE 144, pp. 147-154, 2026. https://doi.org/10.1007/978-3-032-23952-5_16.

b) Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date (20):

1. **Marilena-Adela Buburuzan**, *Dynamic behavior and comparative performance of VOCs adsorption on polymeric and carbon-based systems*, ICEEM 13 Conference Abstracts Book – *Empower Sustainability*, 2025, ISSN 2457-7049/ECOZONE, p. 263-265.
2. **Adela-Marilena Buburuzan**, *Comparative evaluation of the dynamic adsorption performance of toluene vapors from gaseous streams*, ICEEM 12 Conference Abstracts Book, 2023, ISSN 2457-7049/ECOZONE, p. 221-223.
3. **Adela-Marilena Buburuzan**, *Comparative VOCs removal from gaseous streams by adsorption onto polymeric resins and activated carbon systems*, ICEEM 11 Book of Abstracts, 2021, ISSN 2457-7049/ECOZONE, p. 215-217.
4. **Adela Marilena Buburuzan**, *Assessing the performance of a new VOCs adsorption system from gaseous streams*, ICEEM 10 Book of Abstracts, Iasi, Romania, 18-21 September, 2019, ISSN 2457-7049/ECOZONE, 341-343.
5. Ana-Maria Schiopu, Catalin Neculau, **Adela Marilena Buburuzan**, *Comparison between two systems of separate waste collection in the city of Iasi-Romania: 2009-2019*, ICEEM 10 Book of Abstracts, Iasi, Romania, 18-21 September, 2019, ISSN 2457-7049/ECOZONE, 175-177.
6. **Adela Marilena Buburuzan,** *Performance of dynamic VOCs adsorption onto hypercrosslinked polymeric resins compared to activated carbon*, ICEEM 09 Book of Abstracts, Bologna, Italy, 6-9 September, 2017, ISSN 2457-7049/ECOZONE p. 449-451.
7. Ana-Maria Șchiopu, Ion Apostol, **Adela Marilena Buburuzan,** *Sources apportionment of ambient air pollutant PM_{10} in Iasi city*, ICEEM 09 Book of Abstracts, Bologna, Italy, 6-9 September, 2017, ISSN 2457-7049/ECOZONE, p. 451-453.
8. **Adela Marilena Buburuzan,** *Dynamic equilibrium of toluene vapours adsorption onto hypercrosslinked polymeric resins and granular activated carbon systems*, Proc. 8th International Conference on Environmental Engineering and Management, ICEEM 08 Book of Abstracts, Iasi, Romania, 9-12 September, 2015, ISSN 2457-7049/ECOZONE, p. 261-263.
9. **Adela Marilena Buburuzan**, Cezar Catrinescu, Matei Macoveanu, *Comparative study of static adsorption of VOCs vapors onto hypercrosslinked polymeric resins and granular activated carbon*, The International Conference dedicated to the 55th anniversary from the foundation of the Institute of Chemistry of the Academy of Sciences of Moldova, Chisinau, Republica Moldova, 28-30 Mai, 2014;
10. **Adela Marilena Buburuzan,** *Comparative breakthrough behavior of toluene vapours on hypercrosslinked polymeric resins and granular activated carbon systems*, Proc. 7th International Conference on Environmental Engineering and Management „Integration Challenges for Sustainability", ICEEM 07 Book of Abstracts, Vienna, Austria, 18-21 September, 2013, ISBN: 978-973-621-418-9/ECOZONE p. 145-147.
11. **Adela Marilena Buburuzan**, Cezar Catrinescu, Matei Macoveanu, *Adsorption potential and kinetic of adsorption processes of hypercrosslinked polymeric resins and activated carbon for methyl ethyl ketone (MEK) vapors*, Proc. of International Conference 100th

Anniversary of Faculty of Chemical Engineering and Environmental Protection "Centenary of Education in Chemical Engineering", Iaşi, România, 28 – 30 November 2012 – poster.

12. **Adela Marilena Buburuzan,** Cezar Catrinescu, Matei Macoveanu, *Evaluarea potenţialului de adsorbţie şi cinetica proceselor pentru răşinile polimerice hiperreticulate şi cărbunele activ faţă de vaporii de ciclohexan*, Conferinţa naţională a Zilelor Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ed. a VIII-a, "Materiale şi Procese Inovative", Iaşi, 17 – 18 noiembrie, 2011 – poster.
13. **Buburuzan Marilena Adela,** *Breakthrough behavior of n-hexane vapours on hypercrosslinked polymeric resins and granular activated carbon systems*, Proc. 6th International Conference on Environmental Engineering and Management „Green Future", ICEEM 06 Book of Abstracts, Balatonalmadi, Hungary, 1-4 September, 2011 – comunicare, ISBN: 978-973-7645-85-2/ECOZONE, p. 185-187.
14. **Adela Marilena Buburuzan**, Cezar Catrinescu, Matei Macoveanu, *Potenţialul de adsorbţie şi cinetica proceselor pentru răşinile polimerice hiperreticulate şi cărbunele activ faţă de vaporii de toluen*, Conferinţa Naţională a Zilelor Facultăţii de Inginerie Chimică şi Protecţia Mediului, „90 de ani de la naşterea Academicianului Cristofor Simionescu", Ed. a VII-a, Iaşi, 17 - 19 nov. 2010, – poster.
15. **Adela Marilena Buburuzan**, Cezar Catrinescu, Matei Macoveanu, *Evaluarea potenţialului de adsorbţie şi cinetica procesului pentru două răşini polimerice hiperreticulate şi cărbune activ faţă de vaporii de hexan*, Conferinţa Naţională a Zilelor Facultăţii de Inginerie Chimică şi Protecţia Mediului, „Noi frontiere în chimie şi inginerie chimică", Ed. a VI-a, Iaşi, 18 - 20 nov., 2009, – poster.
16. **A.M. Buburuzan**, C. Catrinescu, M. Macoveanu, *Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon*, Proc. 5th International Conference Environmental Engineering and Management „Sustainable production and consumption", ICEEM 05 Volume of Abstracts, Tulcea – Danube Delta, România, 15-19 sept., 2009, ISBN: 978-973-7645-66-1/ECOZONE p.90
17. **A.M. Buburuzan**, C. Catrinescu, M. Macoveanu, *Influence of the temperature on the hexane vapors adsorption onto MN 202 and MN 250 polymeric adsorbents and granular activated carbon*, Proc. 5th International Conference Environmental Engineering and Management „Sustainable production and consumption", ICEEM 05 Volume of Abstracts Tulcea – Danube Delta, România, 15-19 sept., 2009, 978-973-7645-66-1/ECOZONE p.93.
18. **Adela Buburuzan (Haleţa)**, Cezar Catrinescu, Matei Macoveanu, *Influenţa umidităţii asupra procesului de adsorbţie a n-hexanului de către polimeri hiper-reticulaţi de tip MACRONET (MN 250 şi MN 202)*, vol. de lucrări "*Materiale şi procese innovative"*, Iaşi, 19-21 nov., ZFICPM 5, Ed. Politehnium, ISBN 978-973-621-255-0, p.387-394.
19. **Haleţa (Buburuzan) A.**, Catrinescu C., Macoveanu M., *The utilization of MACRONET polymers for decontamination of gaseous fluxes with volatile organic compounds*, Conferinţa Internaţională Jubiliară de Inventică - INVENTICA 2008, Ed. a XII-a, Iaşi, Romania, 12-24 mai 2008, - Ed. Performantica, ISBN 978-973-730-491-9, p. 696-698.
20. Giroir-Fendler A., Saadallah H., **Haleţa A.M.**, *Intrinsic properties of noble metal in catalytic selective reduction of NOx by popene in lean burn conditions*, Proc. 2th International Conference Environmental Engineering and Management, ICEEM 02, Iaşi, 23-26 sept., 2004 – comunicare

J. Invenţii.

K. Contracte de cercetare/granturi.

K.1. director

1. **Grant PN-II-RU-TD-2007-1**, cod TD–196, Contract nr. 279/1.10.2007, *Studii privind procesele de depoluare a unor fluxuri gazoase cu conţinut de compuşi organici volatili*, **director grant**: **asist. drd. ing. Haleţa (Buburuzan) Marilena Adela**, **2007-2009**, valoare : 40685 RON, - **director proiect**

K.2. membru în echipa de cercetare

✓ **Proiecte de cercetare pe bază de granturi internaționale**

1. Grant finanțat **COST ACTIONS OC-2023-1-26944**, CA23157, *European Network for Multiple View Life Cycle Sustainability Assessment*, perioada **2024-2028**, coordonator științific rețea europeană, coordonator rețea națională, responsabil TUIASI – Prof.dr.habil.ing. Brindușa Slușer, **Adela Marilena Buburuzan - membru în rețeaua națională a proiectului,** (grant internațional);

✓ **Proiecte de cercetare pe bază de granturi naționale**

2. **Grant finanțat de Banca Mondială**, program Romanian Secondary Education (**ROSE),** contract AG nr. 195/SGU/NC/II/13.09.2019, proiect ***StepUp***, ”*Îmbunătățirea ratei de retenție a studenților in primul an de studii universitare, prin prevenirea abandonului de la Facultatea Inginerie Chimica si Protecția Mediului "Cristofor Simionescu"*, val. 700490 lei (TVA inclus), echivalent 150000 Euro, perioada **2019-2023**, proiect derulat prin TUIASI_ CCTT Polytech, Universitatea Tehnica “Gheorghe Asachi” din Iasi, director proiect: Conf.dr.habil.ing. Brîndușa Mihaela Slușer, **Adela Marilena Buburuzan - membru în echipa proiectului/formator – responsabil grup țintă**;
3. Proiect **POSDRU/156/1.2/G/136423**- *Noi abordări în formarea profesională a specialiştilor din domeniul Ingineria Mediului în vederea dezvoltării durabile regionale şi a corelării la cerinţele actuale ale pieţii muncii (REGIOSIM)*, **2014-2015**, proiect finanţat de Fondul Social European-80% şi Guvernul Romaniei- 20%, Axa prioritară 1: „Educaţia şi formarea profesională în sprijinul creşterii economice şi dezvoltării societăţii bazate pe cunoaştere”, Domeniul major de intervenţie 1.2: „Calitate în învăţământul superior”, Beneficiar: Universitatea „Vasile Alecsandri” din Bacău; Partener (P1): Universitatea Tehnica „Gheorghe Asachi” din Iasi - director Prof.dr.ing. Carmen Teodosiu, Valoare: 706.000 lei, **Adela Marilena Buburuzan - membru în echipa proiectului/Expert monitorizare studenţi**;
4. Proiect **PN-II-ID-WE-2012-4-062, contract 60/16.08.2012**, ***Workshop exploratoriu****: Progrese în Ingineria, Biotehnologia şi Managementul Mediului în Contextul unei Economii Durabile, Bazate pe Cunoaştere*, (http://we062.xhost.ro/), Principal organizator, Universitatea Tehnică „Gheorghe Asachi” din Iaşi, Departamentul Ingineria şi Managementul Mediului, Prof.univ.dr.ing. Maria Gavrilescu; Co-organizator, Universitatea Tehnică din Viena, Institutul de Inginerie Chimică, Prof.univ.dr.ing. Anton Friedl, Adela Buburuzan – membru în echipa proiectului, spetembrie 2012;
5. **Contract 3633P/11.11.2011**, *Analize fizico-chimice ale apei uzate provenite de la staţia de epurare a apelor menajere a SC DELPHI DIESEL SYSTEMS ROMANIA SRL*, director contract: asist. dr. ing. Corina Mustereţ, val. 172515 RON (**2012-2013)**, **- Adela Buburuzan** – **membru echipa cercetare**;
6. Grant CNCSIS tip A, **Contract nr. A1/GR 164/2006**, Cod 511, tema 36, *Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii*, director proiect: Prof. dr. ing. Maria Gavrilescu, val. 23500 RON, **Adela Haleţa** – **membru echipa cercetare**

7. Grant CNCSIS tip A, **Contract 34664/24.06.2005**, Cod 511, tema 27, *Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii*, director proiect: Prof. dr. ing. Maria Gavrilescu, val. 225.000.000 ROL, **Adela Haleţa – membru echipa cercetare**;
8. Grant CNCSIS tip A, **Contract 34664/24.06.2005**, Cod 774, tema 35, *Bioremedierea factorilor de mediu afectaţi de fenomenul poluării aplicând procese specifice ingineriei chimice şi biotehnologiei*, director proiect: prof. dr. ing. Matei Macoveanu, val. 175.000.000 ROL, **Adela Haleţa – membru echipa cercetare**;
9. **Contract 1487P/2005**, *Cerere formular pentru autorizare integrata de mediu (conf.Ord.818/2003). Raport de amplasament conform ghidului tehnic general. Evaluarea impactului activitatilor asupra mediului pe baza bilanturilor de mediu de nivel I si II. Estimarea riscului, S.C. MITTAL STEEL ROMAN*, director contract: Prof. dr. ing. Matei Macoveanu, val. 25489,8176 RON, **Adela Haleţa – membru echipa cercetare**;
10. Grant CNCSIS tip A, **Contract 33371/2004**, Cod 511, tema 23 şi tema 13, *Identificarea şi analiza strategiilor şi tehnologiilor pentru prevenirea poluării şi producţie mai curată, ca instrumente ale dezvoltării durabile, în sistemele de producţie şi servicii*, director proiect: Prof. dr. ing. Maria Gavrilescu, val. 130.000.000 ROL, **Adela Haleţa – membru echipa cercetare**;
11. Grant CNCSIS tip A, **Contract 33371/2004**, Cod 774, tema 63 şi tema 31, *Bioremedierea factorilor de mediu afectaţi de fenomenul poluării aplicând procese specifice ingineriei chimice şi biotehnologiei*, director proiect: prof. dr. ing. Matei Macoveanu, val. 130.000.000 ROL, **Adela Haleţa – membru echipa cercetare**;
12. Grant CNCSIS tip A, **Contract 40222/2003**, Cod 316, tema 13, *Bioremedierea factorilor de mediu afectaţi de fenomenul poluării aplicând procese specifice ingineriei chimice şi biotehnologiei, director proiect*: prof. dr. ing. Matei Macoveanu, val. 82500 ROL, **Adela Haleţa – membru echipa cercetare**

K.3. beneficiar:

1. Proiectul **„DigitAll@TUIASI –** *Transformare digitală pentru profesiile viitorului***"** finanțat prin PNRR, **2026**;
2. **Erasmus+** project *Digital Challenge in Higher Education*, Project no. 2022-IT02-KA220-HED-000087029, funded by Erasmus+ KA2 – HED, **2024**;
3. Proiectul "*Internaționalizarea Educației pentru Studenți la TUIASI*", cod proiect CNFIS-FDI-2019-0021, Specializarea Competențe cheie comune mai multor ocupații. Comunicare în limba engleză – **EMIT**, **2019**;
4. Contract de dezvoltare instituţională „*Perfecţionarea continuă a personalului didactic din universitate - garanţie a respectării deontologiei profesionale şi a eticii academice* – **PERF-DEONTETIC**", CNFIS-FDI-2017-0065, **2017**;
5. Proiect strategic *Şcoala Universitară de Formare Iniţială şi Continuă a Personalului Didactic şi a Trainerilor din Domeniul Specializărilor Tehnice şi Inginereşti* - **DIDATEC**, POSDRU/87/1.3/S/60891, **2012-2013**, partener TUIasi.
6. Proiect strategic *Specializarea personalului didactic universitar pentru funcţia de supervizor de practică tehnologică şi de cercetare*, POSDRU/57/1.3/S/17884, **2011-2012**, partener TUIasi;

L. Premii, distincţii.

1. ***Diplomă de Excelenţă*** şi ***Medalia Inventica 2008*** acordată de Societatea Inventatorilor din România şi Institutul Naţional de Inventică Iaşi pentru lucrarea *The Utilization of Macronet Polymers for Decontamination of Gaseous Fluxes with VOCs*.

M. Alte realizări semnificative.

M.1. Stagii de specializare:

- Schimb de experiență (viziting professor) la Politecnico di Torino, Iatalia, iunie 2015;
- Schimb de experienţă (viziting professor) la University of Pannonia, Veszprem, **Hungary** (septembrie 2011, septembrie 2013, septembrie 2014);
- Schimb de experienţă (internship) la Institute of Environmental Engineering, University of Pannonia, Veszprem, **Hungary** (octombrie 2012);
- Stagiu de cercetare şi documentare la Laboratoire d' Application de la Chimie a l' Environnement – **LACE**, Universite Claude Bernard Lyon I, **France**, aprilie – iulie 2004;

M.2. Calificări:

- ***Curs H5P – conținut interactiv*** – Certificat de Absolvire in cadrul programului *Moodle Empowering educators to improve our world*, 20 ore, 28 Martie-16 Aprilie 2026;
- ***Microsoft Copilot Chat*** – Academic Learning Session, Certificate ID: BTN-ACADEMIC-2026-1X5COJ, martie 2026;
- ***Soft and Communication Skills for Digital Teaching*** – Certificate of Completion, under the Erasmus+ project Digital Challenge in Higher Education, Project no. 2022-1-IT02-KA220-HED-000087029, funded by Erasmus+ KA2 – HED, 28 hours of learning, Rome, 13 June 2024;
- ***Training for Innovative Online Teaching*** – Certificate of Completion, under the Erasmus+ project "Digital Challenge in Higher Education" (Project no 2022-IT02-KA220-HED-000087029) funded by Erasmus+ KA2 – HED, 80 hours of learning, Rome, 13 June 2024;
- ***Use of Artificial Intelligence in Education*** – Certificate of Completion, under the Erasmus+ project "Digital Challenge in Higher Education" (Project no 2022-IT02-KA220-HED-000087029) funded by Erasmus+ KA2 – HED, 27 hours of learning, Rome, 6 June 2024;
- ***Online Teaching Methodologies*** – Certificate of Completion, under the Erasmus+ project "Digital Challenge in Higher Education" (Project no 2022-IT02-KA220-HED-000087029) funded by Erasmus+ KA2 – HED, 25 hours of learning, Rome, 17 May 2024;
- ***Practici durabile în managementul mediului și al deșeurilor, în comunitățile rurale*** – Eveniment de multiplicare – ME_1 în cadrul proiectului "*Educație pentru protecția mediului – Resurse educaționale deschise pentru cetățenii din comunitățile rurale*" (Environmental Education – OERs for Rural Citizens, EnvEdu-OERs), cod proiect 19-COP-0038, Iași, 27 mai 2022;
- ***Competențe cheie comune mai multor ocupații - Comunicare în limba engleză.,*** in cadrul proiectului CNFIS-FDI-2019-0021, octombrie-noiembrie 2019;
- ***Perfecționarea personalului didactic din universitate prin aprofundarea medotelor postmoderne de predare-învățare-evaluare*** în cadrul proiectului CNFIS-FDI-2017-0065 Perfecționnarea continuă a personalului didactic din universitate – garanție a respectării deontologiei profesionale și a eticii academice PERF-DEONTETIC, octombrie-decembrie 2017;
- ***Concepts in Environmental Science and Engineering***, Michigan State University, Institute of International Health and Fogarty, International Center Program on Environmental Health, - Certificate of Completition, iunie 2009;
- ***Multiplicator de informaţie europeană de mediu*** în cadrul proiectului *Tinerii şi protecţia mediului în perspectiva integrării în Uniunea Europeană*, martie 2006;
- ***Colaborare transfrontalieră pentru protecţia calităţii apelor de suprafaţă din bazinul hidrografic al râului Prut***, sesiune internaţională de informare şi instruire a ONG-urilor de mediu, 5-9 septembrie 2005;

M.3. Participarea la peste 30 conferinţe internaţionale, workshop-uri, seminarii (selecţie):

- *The Copernicus Arctic Hub – Data and Tools for the Arctic* organised by Copernicus Thematic Hubs and Mercator Ocean International, held online on 22nd and 24th September 2026;
- *Academic writing technics and AI* in the framework of MDPI Academic Publishing Workshop at the Gheorghe Asachi Technical University from Iași, held online, 4 June 2026, Iași, Romania;
- *Effective literature searching on Scopus and Science Direct*, Research Academy on Campus, Elsevier, online, 23th May 2026;
- *How to find the right journal: strategies and tools that can help authors***,** Research Academy on Campus, Elsevier, online, 25th May 2026;
- *How to write a Scientific Paper for Peer Review Journal – Exclusive Springer Nature*, Webinar, Springer Nature, 18th May 2026;
- *How to submit a manuscript and how to use the Elsevier Open Acces Platform*, Research Academy on Campus, Elsevier, online, 30th April 2026;
- *Discover Science Direct Topics*, Research Academy on Campus, Elsevier, online, 22nd April 2026;
- *LeapSpace – The research – grade AI workspace*, Research Academy on Campus, Elsevier, online, 8th April 2026;
- *How to Publish in Wiley`s Journals and Publication Tips for Authors*, Wiley Customer Education, online workshop, 2 April 2026;
- *International Conference on e-Health and Bioengineering*, **EHB 2025**, 13th Edition, 13-14 November 2025, Hybrid Conference, Iași, Romania.
- *International Conference on Environmental Engineering and Management*, **ICEEM13** (17-20 Sept., 2025, Iași, România), **ICEEM12** (13-16 Sept., 2023, Iași, România), **ICEEM11** (8-10 Sept. 2021, Muttenz, Switzerland), **ICEEM10** (18-21 Sept. 2019, Iași, Romania), **ICEEM09** (6-9 Sept., 2017, Bologna, Italy), **ICEEM08** (9-12 Sept. 2015, Iasi, Romania), **ICEEM07** (18-21 Sept. 2013, Vienna, Austria), **ICEEM06** (1-4 Sept. 2011, Balatonalmadi, Hungary), **ICEEM05** (15-19 sept. 2009, Tulcea, Danube Delta, Romania), **ICEEM04** (12-15 sept. 2007, Iaşi, România), **ICEEM03** (21-24 sept. 2006, Iaşi, România), **ICEEM02** (23-26 sept. 2004 Iaşi), www.iceem.eu;
- The Erasmus+ project Digital Challenge in Higher Education, Project no. 2022-1-IT02-KA220-HED-000087029, funded by Erasmus+ KA2 – HED, Rome, May - June 2024;
- ***Sustainable Development Workshop*** jointly organised by the ”Gheorghe Asachi” Technical University of Iași (TUIASI – Ingenium European University) and the Romanian Environment Association, online, 29th of November 2023;
- ***International Conference Centenary of Education in Chemical Engineering - CECE***, Iaşi, România, 28-30 nov. 2012, www.ch.tuiasi.ro/CNIC2012/index.html;
- Workshop *Progress in environmental engineering, biotechnology and management in the frame of knowledge-based sustainable economy*”, Exploratory Workshop IDEI Project PN-II-ID-PCE-2011-3-0559, contract 60/2012, Iaşi, 19-21 September 2012;
- Workshop “*Globalization of water and the water footprint of hymanity*” prezentat de Prof. Arjen Hoekstra, Universitatea Tehnica “Gheorghe Asachi” din Iaşi, Facultatea de Inginerie Chimică şi Protecţia Mediului, 3 Mai 2012, Iaşi, România;
- Workshop *Challenges for sustainability in environmental research and education*, organizat de OAIMDD şi catedra de Ingineria şi Managementul Mediului, Facultatea de Inginerie Chimică şi Protecţia Mediului, Tulcea, 16.09.2009;

- Sesiunea de instruire *Reţea integrată pentru managementul durabil al resurselor de apă*, în cadrul proiectului CEEX SIWMANET Modul III, organizat de Facultatea de Inginerie Chimică, Universitatea Tehnică "Gh. Asachi", Iaşi, 10 nov. 2006;
- Workshop *Raportarea de mediu în contextul dezvoltării durabile*, organizat de OAIMDD, catedra de Ingineria şi Managementul Mediului în colaborare cu IIIEE, Lund University, Suedia, 17 – 26 aprilie 2006, Iaşi;
- Workshop *Management şi politici de mediu pentru producţie şi consum durabil*, organizat de OAIMDD şi catedra de Ingineria şi Managementul Mediului, Facultatea de Inginerie Chimică şi Protecţia Mediului, UTI, Iaşi şi International Institute for Industrial Environmental Economics, Lund Suedia, 28-29 octombrie 2005.

M.4. Alte realizări:

- Îndrumare activităţi cu studenţii: coordonare proiecte licenţă/diplomă, lucrări de disertaţie, coordonare practică tehnologică pentru studenţii de la specializarea *IPMI*, consilier pentru studenţii de la specilizarea IPMI;
- Referent ştiinţific al revistei cotate ISI, *Chemical Engineering Journal*;
- Membru în secretariatul de organizare a 12 ediţii ale conferinţei internaţionale ***ICEEM*** – *International Conference on Environmental and Engineering Management*, Iaşi, Facultatea de Inginerie Chimică şi Protecţia Mediului, 2004, 2006, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025 www.iceem.eu;
- Membru în comitetul de organizare a workshop-ului exploratoriu "*Progress in environmental engineering, biotechnology and management in the frame of knowledge-based sustainable economy* ", Exploratory Workshop IDEI Project PN-II-ID-PCE-2011-3-0559, contract 60/2012, Iaşi, 19-21 September 2012;
- Membru în comitetul ştiinţific şi de organizare a concursului „*Acad. Cristofor Simionescu*", www.ascchemis.ro/concurs_ficpm/, (2013-prezent);
- Membru în comitetul ştiinţific şi de organizare a manifestării „*High School Science Projects*", (2013-2018; 2023-prezent), www.ascchemis.ro/hssp/
- Membru în comisiile de susţinere a proiectelor de diplomă/licenţă la specializarea *Ingineria şi Protecţia Mediului în Industrie, (*membru comisie din 2014-prezent, secretar comisie in perioada 2006-2009);
- Membru în comisiile de evaluarea a lucrărilor de disertaţie la masterul *Managementul Mediului* zi şi IDD (2006-2017) – secretar comisie şi masterul în limba engleză *Environmental Management and Sustainale Energy* (2012-2017) – secretar comisie;
- Membru în comisiile cercurilor ştiinţifice studenţeşti, secţiunea *Ingineria şi Mangementul Mediului*, (2006-2008, 2025-prezent);
- Membru în comisiile de admitere a Facultăţii de Inginerie Chimică şi Protecţia Mediului (2012-2020);
- Membru în Biroul electoral la facultatea ICPM (2019, 2024);
- Membru în comisia de îndrumare a doctoranzilor;
- Mentor student în cadrul *Grantului pentru Tineri Cercetători Regele Carol I* – student master Brandiu Carmen Mihaela, (2024 – 2026);

Data, Semnătura,

Septembrie 2026 **Sef lucr. dr. ing. Adela-Marilena Buburuzan**

Facultatea Inginerie Chimică și Protecția Mediului “Cristofor Simionescu”
Departamentul Ingineria și Managementul Mediului

Sef lucrari dr. ing. Corina-Petronela Musteret

L I S T A D E L U C R Ă R I

I. Teza de doctorat
Titlul tezei: **Studii privind eficientizarea proceselor de membrana pentru epurarea apelor uzate**
Titlul obţinut: **Doctor în Inginerie Chimică, diploma seria H nr. 0005524/2012**
Insitutia: **Universitatea Tehnica “Gheorghe Asachi” din Iasi**
Coordonator stiintific: **Prof. univ. dr. ing. Teodosiu Carmen**

II. Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate

1. Sluser B.M., Fighir D., **Mustereț C.,** Teodosiu C., 2022, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, *Capitolul 5* al cartii *Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise*, Editura Universitatii *Transilvania* din Brasov, Editori: Draghici C., Sluser B.M., Simion C.P., pag.101-133, ISBN 978-606-19-1524-8

2. Mustereț C.P., Fighir D., Gavrilescu D., Zaharia C., Teodosiu C., *Tratarea și epurarea apelor: Aplicații practice,* Editura Politehnium, 2014, ISBN 978-973-621-442-4, 250 pagini

III. Articole publicate în reviste cotate ISI, cu factor de impact

1. Zaharia, C.; **Musteret, C.-P.;** Afrasinei, M.-A., 2024, The Use of Coagulation–Flocculation for Industrial Colored Wastewater Treatment—(I) The Application of Hybrid Materials. Appl. Sci. 2024, 14, 2184. https://doi.org/10.3390/ app14052184 (IF=2,5, ISI Web of Science)

2. Musteret C.P., Morosanu I., Ciobanu R., Plavan O., Gherghel A., Al-Refai M., Roman I., Teodosiu C., 2021, **Assessment of Coagulation-Flocculation Process Efficiency for the Natural Organic Matter Removal in Drinking Water Treatment,** *WATER*, volume 13, Issue 21, Article Number 3073, DOI10.3390/w13213073

3. Gîlcă A.F., Teodosiu C*, Fiore S., **Musteret C.P.,** (2020), **Emerging disinfection byproducts: A review on their occurrence and control in drinking water treatment processes**, Chemosphere, vol. 259, 127476, p. 1-17, I.F. 5.778

4. Musteret C.P., Teodosiu C*., 2017, **Experimental Assesment of Nanofiltration for the Removal of Chlorophenols from Aqueous Effluents**. Environmental Engineering and Management Journal, vol.16, no.4., p.793- 800 (I.F=1.334, ISI Web of Science)

5. Dascalescu I.G., Morosanu I., Ungureanu F., **Musteret C.P**., Minea M., Teodosiu C., 2017, **Development of a Versatile Water Quality Index for Water Supply Applications**. Environmental Engineering and Management Journal, vol.16, no.3., p 525-534 (I.F=1.334, ISI Web of Science)

6. Arsene D., Teodosiu C.*, Barjoveanu G., Apreutesei R.E., Apopei P**., Musteret C.P**., Cailean D.,(2013), **Combined Catalytic Oxidation and Adsorption of Priority Organic Pollutants for Wastewater Recycling**, Environmental Engineering and Management Journal, vol.12, no.5., p.907-916 (I.F=1.258, ISI Web of Science)

7. Arsene D., **Musteret C.P.,** Catrinescu C., Apopei P., Barjoveanu G., Teodosiu C., (2011), **Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters**, Environmental Engineering and Management Journal, Vol.10, (12), 1967-1976 (I.F=1.435, ISI Web of Science)

8. Musteret C.P., Cailean D., Barjoveanu G., Teodosiu C., (2010), **An assessment of operational parameters for the removal of chlorophenols from wastewater,** Environmental Engineering and Management Journal , 9 (10), p. 1451- 1457 (I.F=1.435, ISI Web of Science)

9. Teodosiu C., Cojocariu C., **Musteret C. P**., Dascalescu I.G., Caraene I., (2009), **Assessment of human and natural impacts over water quality in the Prut river basin, Romania**, Environmental Engineering and Management, vol. 8, no. 6, p.1439-1450 (F.I.=0,885, ISI Web of Science)

10. Cailean D., Barjoveanu G., **Musteret C.P**., Sulitanu N, Manea L.R., Teodosiu C., (2009), **Reactive dyes removal from wastewater by combined advanced treatment,** Environmental Engineering and Management Journal, vol. 8, no. 3, p. 503-512 (I.F=0,885, ISI Web of Science)

11. Mustereţ C.P., Teodosiu C., 2007, **Removal of persistent organic pollutants from textile wastewater by membrane processes,** Environmental Engineering and Management Journal, 6(3), 175-184 (I.F=0,885, ISI Web of Science)

IV. Articole/studii publicate în volumele unor conferinte indexate ISI

1. Zaharia C., Musteret C.P., 2024, Use of combined electrolyte and polymeric materials for coagulation-flocculation of real industrial effuents: empirical modeling and optimization, Lecture Notes in Civil Engineering, 524 LNCE, pp. 417–423

V. Articole publicate în reviste indexate in baze de date internaţionale (BDI)

1. Simona-Andreea Ene, **Corina Petronela Mustereţ**, Carmen Teodosiu, (2009), *Overview of the Water Footprint Concept Applied for the Efficient Use of Water Resources*, Buletinul Institutului Politehnic din Iasi, Tomul LV (LIX), Fasc. 4, pag. 209-217

2. Manea L.R., Teodosiu C., Bertea A., Barjoveanu G., **Musteret C.P.,** Pantilimonescu F., Deliu R., (2009), *Process control smart systems for cleaning the waste waters,* Buletinul Institutului Politehnic din Iasi, Sectia Stiinta si Ingineria Materialelor, Tomul LV (LIX), Fasc. 4, pag. 229-237

VI. Articole/studii publicate în volumele unor manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

1. Căilean D., **Mustereţ C.P**., Bârjoveanu G., Teodosiu C., (2008), Ultrafiltration and ultrasonication as combined processes for wastewater treatment in textile industry, vol. de lucr. “Materiale şi procese inovative, Iaşi 19-21 nov., ZFIC 5, Ed. Politehnium, p.160-167

2. Barjoveanu G., **Musteret C**.**P**., Caraene I., Teodosiu C., 2007, Advanced treatment by ultrafiltration for industrial wastewater recycling, International Conference Disasters and Pollution Monitoring, IC.DPM.03, Ed. Performantica Iaşi, 159-168, ISBN 978-973-730-406-3

VII. Brevete de invenţie acordate în ţară

1. G. Barjoveanu, C. Teodosiu, C.F. Catrinescu, D.Fighir, D. Gavrilescu, **Musteret C.P.** (2018) Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Brevet OSIM nr. 131271/30.08.2018

2. Teodosiu C**.**, Barjoveanu G., Manea L.R., Bertea A. P., **Musteret C.P**., Cailean D., *Procedeu integrat de ultrafiltrare-ultrasonare pentru epurarea apelor uzate*, Brevet OSIM nr. 122813/26.02.2010

VIII. Lucrari comunicate/prezentate la seminarii/ conferinte/workshop-uri/expozitii

1. Haivas C.A., **Musteret C.P.**, Zaharia C., 2026, A Chemical-Mechanical Treatment Solution for a Zootechnical Farm Effluent: Coagulation-Flocculation-Sedimentation Using Hybrid Polymeric Materials, 12th International Conference on Innovative Research EUROINVENT, 28-29 May 2026, Iasi

2. **Musteret C.P.,** Plavan O., Teodosiu C., Removal of Manganese, Iron and disinfection Byproducts Precursors from Groundwater by Coagulation-Flocculation and Adsorption Processes, 2025, 13th International Conference on Environmental Engineering and Management (ICEEM13), 17-20 September 2025, Iasi

3. **Musteret C.P.,** Pana A.S., Paladie C., Zaharia C., 2025, Removal of Disinfection Byproducts Precursors from Surface Water by Coagulation-Flocculation Processes (A Case Study in Romania), 7th International Hybrid Conference Water Resources and Wetlands, 10-14 September 2025, Tulcea

4. Afrasinei M.A., **Musteret C.P.,** Zaharia C., 2025**,** Experimental Modeling Study of Coagulation Flocculation Treatment Process Applied for Textile Effluents Containing Reactive Remazol Rosso RB Dye Using Commercial Hybrid Composite Materials, , 8th International Conference of the Doctoral School at the ”Gheorghe Asachi” Technical University of Iasi, Romania, 14-16 May 2025, Iasi

5. Zaharia C., **Musteret C.P**., 2024, Use of combined electrolyte and polymeric materials for coagulation-flocculation of real industrial effuents: empirical modeling and optimization, International Conference On Wider-Uptake Of Water Resource Recovery From Wastewater Treatment (ICWRR2024), 18-21 June, Palermo, Italy

6. Afrasinei M.A., **Musteret C.P**., Zaharia C., Preliminary study of two commercial flocculants applied for colored wastewater treatment, 7th International Conference of the Doctoral School at the "Gheorghe Asachi" Technical University of Iasi, Romania, 15-17 May 2024, Iasi

7. Musteret C.P., Teodosiu C., 2023, A circular approach in water and wastewater treatment and management, Aqua Circular Conference, 4-6 October 2023, Timisoara

8. Sluser B., Fighir D., **Musteret C.,** Teodosiu C., 2022. Integrated Environmental Management: Tools and Applications, 16th International Management Conference, 3-4 November 2022, Bucuresti

9. Musteret C.P., Morosanu I., Plavan O., Gherghel A., Roman I., Teodosiu C., 2022, Coagulation-flocculation efficiency to remove manganese and natural organic matter for drinking water treatment, International Conference on Chemical Engineering, 05-07.10.2022, Iasi, Romania

10. Ciobanu R., Gherghel A., **Musteret C.P**., Plavan O., Morosanu I., Teodosiu C., 2021, Efficiency of coagulation-flocculation for natural organic matter removal in drinking water treatment, 4 th International Conference of the Doctoral School, 19-21.05.2021, Iasi, Romania

11. Musteret C.P., Morosanu I., Ciobanu R., Gherghel A., Plavan O., Roman I., Teodosiu C., 2021, Coagulation-Flocculation Efficiency to Remove Natural Organic Matter for Water Treatment, 11th International Conference on Environmental Engineering and Management (ICEEM11), 8-12.09.2021, Muttenz, Elvetia

12. Roman I., **Musteret C.P.,** Apopei P., Plavan O., Popovici D., Teodosiu C., 2019, Efficiency of Coagulation Flocculation Applied to Lake Water Treatment for Drinking Purposes, 10th International Conference on Environmental Engineering and Management (ICEEM11), 18-21.09.2019, Iasi, Romania

13. Neamțu R., Slușer* B.M., Teodosiu C.*, Gîlcă A.F., Gavrilescu D., **Mustereț C.P**., 2018. Integrated Assessment of Heavy Metals Pollution in the Prut River Basin: A Case Study for Iași County, (Poster), 4th International Conference on Chemical Engineering (ICCE 2018) – "Innovative materials and processes for a sustainable development", 31.10.2018 – 02.11.2018, Iasi, Romania

14. Morosanu I., Teodosiu C., Paduraru C., **Musteret C.P**., 2017, **Sequencing batch biosorption of micropollutants from aqueous effluents: equilibrium and optimization studies**, 9th International Conference on Environmental Engineering and Management (ICEEM11), 6-9-21.09.2017, Bologna, Italia

15. Teodosiu C.*, Barjoveanu G., Cailean (Gavrilescu) D., **Musteret C.P**., Arsene (Fighir) D., Morozanu I., Popovici D., Dăscălescu I., Trofin O.*, Minea M., Toma I., 2017. Pilot scale ultrafiltration for municipal wastewater reuse. International Conference Proceedings: 2017, ARA Publishing House, ISBN 978-973-88245-1-5, pages: 3-17

16. Musteret C.P., Teodosiu C., 2015, **Removal of** Chlorophenols from Aqueous Effluents by Nanofiltration: Assessment of Operational Parameters, 8th International Conference on Environmental Engineering and Management (ICEEM11), 9-12.09.2015, Iasi

17. Daniela Arsene, Daniela Căilean, Petru Apopei, **Corina Petronela Mustereţ**, Bianca Weinberg, Carmen Teodosiu, (2012), Challenges in implementing integrated advanced wastewater treatment processes for the removal of priority organic pollutants and enhancement of effluents biodegradability, Conferinţa internaţională "CENTENARY OF EDUCATION IN CHEMICAL ENGINEERING, 28-30 Noiembrie, 2012, Iaşi, România

18. Corina-Petronela Musteret, Daniela Căilean, Carmen Teodosiu, (2012), Removal of chlorophenols from aqueous effluents by nanofiltration, Conferinţa internaţională "ECO-IMPULS 2012", 25-26 octombrie, Timişoara, România

19. Carmen Păduraru, Lavinia Tofan, Ioan Bunia, Carmen Teodosiu, **Corina Musteret***,* (2012), Cu(II) removal from aqueous solutions by acrylic adsorbent with amidoethylenamine groups, Conferinţa internaţională "CENTENARY OF EDUCATION IN CHEMICAL ENGINEERING, 28-30 Noiembrie, 2012, Iaşi, România

20. Teodosiu C., Catrinescu C., **Musteret C.P**., Cailean D., Arsene D., Apopei P., (2011), Assessement of Various Integrated Advanced Treatment Processes for the Removal of 4-Chlorophenols from Wastewater, Conferinţa Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, ZFIC VIII, 17-18.11.2011, Iaşi, România

21. Cailean D., **Musteret C.P.**, Teodosiu C., (2011) Integrated ultrasonication-ultrafiltration process for the treatment of textile effluents: assessment of operational parameters, 6th International Conference of Environmental Engineering and Management, ICEEM 06, September 1 – 4, 2011, Balatonalmadi, Hungary

22. Musteret C.P., Cailean D., Barjoveanu G., Teodosiu C., (2010) Removal of clorophenols from wastewaters by ultrafiltration process, Zilele Facultăţii de Inginerie Chimică şi Potecţia Mediului, 19-21 Noiembrie, Iaşi, România

23. Cojocariu C., Lupu L., Teodosiu C., Ene S.A**., Musteret C.P., (**2009), Institutional capacities assessement for cooperation on the Prut river basin management, Romania*,* 5th International Conference of

Environmental Engineering and Management, ICEEM 05, September 15 – 19, 2009, Tulcea, Danube Delta, Romania

24. Teodosiu C., Cojocariu C., **Musteret C.P.,** Dascalescu I.G., Caraene I., (2009), Assessment of water quality in the Prut river basin, Romania, 5th International Conference of Environmental Engineering and Management, ICEEM 05, September 15 – 19, 2009, Tulcea, Danube Delta, Romania;

25. Teodosiu C., Manea L.R., Barjoveanu G., Bertea A.P, **Musteret C.P.**, Cailean D.**,** (2009) Integrated method of ultrafiltration-ultrasonication for wastewater treatment la IX Specialized International Exhibition Infoinvent, Chisinau, Moldova, 24-27.11. 2009

26. Teodosiu C., Manea L.R., Barjoveanu G., Bertea A.P., **Musteret C.P.**, Cailean D.**,** (2009) Integrated method of ultrafiltration-ultrasonication for wastewater treatment la International Research Salon, Bacau, Romania, 19-21.11.2009;

27. Teodosiu C., Manea L.R., Barjoveanu G., Bertea A.P., **Musteret C.P**., Cailean D., (2009) Integrated method of ultrafiltration-ultrasonication for wastewater treatment, at The 5th international Salon of Inventions and New Technologies NEW TIME, Sevastopol, Ucraina, 24-26.09.2009;

28. Teodosiu C., Manea L.R., Barjoveanu G., Bertea A.P., **Musteret C.P**., Cailean D., (2009) Methode integree d'ultrafiltration-ultrasonication pour l'epuration des eaux usees, at Exhibition of Inventions 37`eme Salon International des Inventions des Techniques et Products Nouveaux Geneve, Elvetia, 1 – 5.04.2009

29. Teodosiu C., Manea L.R., Barjoveanu G., Bertea A.P., **Musteret C.P**., Cailean D., (**2009) Integrated method of ultrafiltration-ultrasonication for wastewater treatment, 7th International** Conference of Research, Innovation and Inventics PROINVENT 2009, Cluj Napoca , Romania, 24-27.03. 2009

30. Teodosiu C., Manea L, Bârjoveanu G., Bertea A, **Musteret C. P.,** Căilean D., Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment, Le salon international de l'Innovation de la Recherche et des Nouvelles technologies, Brussels, 13-15 nov. 2008

31. Teodosiu C., Manea L., Bârjoveanu G., Bertea A., **Musteret C. P**., Căilean D., Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment, Festivalul internaţională de inovare în tehnologii noi şi creaţie Teslafest, Novi Sad ,11-15 octombrie 2008

32. C.Teodosiu, G. Barjoveanu, C. **Musteret, C**. Catrinescu, 2008, Advanced wastewater treatment technologies for recycling industrial wastewater, Conferinţa internaţională jubiliară de Inventică – INVENTICA 2008, Editia a XII-a, 12 – 24 mai 2008 Iasi

33. Teodosiu C., Barjoveanu G., **Musteret C.P.,** Manea L.R., Cailean D., Bertea A.P., (2008) Ultrasonic activated and biosensors controlled filtration computerized systems for textile processes**,** at International Conferinţa internaţională jubiliară de Inventică–INVENTICA 2008, Editia a XII-a, Iaşi, Romania, 12–24.05. 2008;

34. Musteret C.P., Barjoveanu G., Teodosiu C., (2008) Ultrafiltration Performances in the removal of Priority Organic Pollutants, at 5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, 24-29 May 2008, Cetraro, Italy

35. Musteret C.P., Barjoveanu G., Cailean D., Teodosiu C., (2008) Removal of dyes from textile wastewater by ultrafiltration, Conferinţa ESTROM Environmental Research and Mitigation of Water Pollution in Romania and in the Lower Danube Region, Bucureşti, 3-5 septembrie 2008

36. Barjoveanu G., **Musteret C.P.,** Teodosiu C.**,** (2007) Enhanced ultrafiltration process performances by ultrasound, Scientific Days of Faculty of Chemical Engineering and Environmental Protection, 15-16 november 2007, Iasi, Romania

IX. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională

1. Grant SEE ESAYEP, nr. SEE19-COP-0038, Environmental Education – OERs for Rural Citizens,Coordonator Universitatea Transilvania Braşov si Reykjavik University, responsabil proiect TUIASI: prof. dr. ing. C. Teodosiu, valoare proiect 128.160 euro, membra in echipa de proiect

2. Grant COST *ES1202* project, Conceiving wastewater treatment in 2020-energetic, environmental and economic challenges (WATER_2020), (2012 – 2016), membru in Reţeaua naţională de cercetători pe tematica Acţiunii COST ES1202

3. Grant SOCRATES/MOD, 51388-IC-2004-RO-ERASMUS-MODUC-6, - Management and security assesment for sustainable environment – MASS, 2005-2007, director grant TUIasi: prof. dr. ing. C.Teodosiu; 8000 EURO/24 luni, membra in echipa de proiect

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională

1. Grant PED nr. 521PED/2020, Microparticule compozite nisip/polielectrolit cu capacitate ridicata de încărcare/eliberare de compusi anorganici/organici din ape poluate (Quartz sand/polyelectrolyte composite microparticles with high loading/release of some inorganic/organic compounds from polluted waters), acronim POLYSAND, Responsabil proiect partener: Carmen Teodosiu, 01.05.2020- 30.04.2022, (cod PN-III-P2-2.1-PED-2019-1996), valoare TUIASI pentru anul 2021: 50986 RON fara TVA, membra in echipa de proiect

2. Grant PCE nr. 56/2021 PNCDI III (Proiecte de cercetare exploratorie) Innovative and sustainable solutions for priority and emerging pollutants removal through advanced wastewater treatment processes (acronym: SUSTINWATER)/ Soluții inovative și sustenabile pentru eliminarea poluanților prioritari și emergenți prin procese de epurare avansată a apelor uzate", valoare proiect: 1.198.032 lei, 04.01.2021-31.12.2023, Project director: Carmen Teodosiu (code PN-III-P4-ID-PCE2020-1199), membra in echipa de proiect

3. Grant nr. 129/SGU/PV/II, Proiect privind Învăţământul Secundar (ROSE), Schema de Granturi: SCHEMA DE GRANTURI PENTRU UNIVERSITĂŢI – Programe de vară de tip punte (SGCU – PV), Beneficiar: Universitatea Tehnică ”Gheorghe Asachi” din Iaşi, Titlul subproiectului: Reacționează Chimic cu Mediul de la TUIași, expert formator

4. Grant PCCDI nr. 26PCCDI/01.03.2018, PNCDI III (Proiecte complexe realizate în consortii CDI), Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate si valorificare a deseurilor (Integrated and sustainable processes for environmental clean-up, wastewater reuse and waste valorization), acronim proiect: SUSTENVPRO, (01.03.2018 - 30.12.2020), valoare proiect: 5.287.500 lei, valoare TUIASI: 1.712.250 lei, Project director: Carmen Teodosiu (project code: PN-III-P1-1.2-PCCDI-2017-0245), membra in echipa de proiect

5. POSDRU/156/1.2/G/136423, DMI 1.2, *Noi abordări în formarea profesională a specialiştilor din domeniul Ingineria Mediului în vederea dezvoltării durabile regionale şi a corelării la cerinţele actuale ale pieţii muncii (REGIOSIM*), 2014-2015, responsabil proiect TUIasi: prof. dr. ing. C. Teodosiu, valoare totală 706.000 lei., expert managementul calitatii

6. Grant PNCDI II (Partneriate) no. 60/2012, (2012- 2016) Sistem integrat pentru reducerea impacturilor şi riscurilor de mediu şi asupra sănătăţii umane în ciclul de utilizare al apei *(Integrated System for Reducing Environmental and Human Related Impacts and Risks in the Water Use Cycle)* (WATUSER), Project director: Carmen Teodosiu, Total value: 2 862 400 RON, membra in echipa de proiect.

7. Grant PNCDI II, Contract no. 32-125/2008, (2008-2011), Sistem suport tehnico-decizional pentru managementul durabil al apei (*Technical and Decision Making Support System for Sustainable Water Management)*, STEDIWAT, Project director C.Teodosiu, total value (2008), 1.950.000 RON, membra in echipa de proiect.

8. Grant PN-II-ID-PCE-2008-2, IDEI, Cod 368, Contract no. 739/2009, (2008-2011), Procese combinate de epurare avansată a apelor uzate pentru eliminarea poluanţilor organici persistenţi şi îmbunătăţirea biodegradabilităţii apelor uzate *(Combined advanced wastewater treatment processes for the removal of persistent organic pollutants and enhancement of wastewater biodegradability)*, Project director: C. Teodosiu, Total value (2008), 961.500 RON, membra in echipa de proiect

9. Grant PNCDI II Capacitati PN II CAPACITATI, Contract no. 94/13.09.2007 (2007-2009), *Extinderea competenţelor laboratorului de analiză şi control a factorilor de mediu în domeniul estimării, caracterizării şi valorificării resurselor regenerabile şi reciclabile prin procedee chimice şi biotehnologice MEDRESLAB (Increase of the competence of the Laboratory for analysis and control of environmental factors in the field of assessement, characterisation and valorisation of the renewable and recyclable resources through chemical and biotechnological processes)*, Project director I. Volf, total value 2.000.000 RON, membra in echipa de proiect

10. Grant CEEX/MEdC Retea integrata pentru managementul durabil al resurselor de apa SIWMANET (*Sustainable and Integrated Water Resources Management Network),* - 2006-2008, Project director: C.Teodosiu, value TUIASI: 115.000 RON, Contract no. 115/01.08.2006, code MEdC M3-C3- 12373, membra in echipa de proiect

11. Grant CEEX/ MEdC Tehnologii de epurare avansata pentru recircularea efluentilor industriali (*Advanced Treatment Technologies for Recycling Industrial Wastewater)* - RIWATECH, 2005-2008, Project director: C.Teodosiu, total value TUIASI: 1.234.282 RON, contract no. 62/03.10.2005, membra in echipa de proiect

12. Grant PNCDI II, Contract no. 71-003/2007, (2007-2010), Tehnologii inovative de obtinere a nanofibrelor prin sistem computerizat de electrofilare *(Innovative technologies for obtaining nanofibres by a computerized*

system of electrospinning); ELECTROSPIN - PN II-71_003; Project director: conf. dr. ing. Manea Liliana Rozemarie; total value 450112 RON, membra in echipa de proiect

13. Grant CEEX Modul I, FILTSOFTUS, Sisteme computerizate de filtrare şi separare activate cu ultrasunete şi controlate cu biosenzori pentru procese textile *(Computerized ultrasound filtration and separation activated and controlled with biosensors for textile processes)*, 2007-2008, project director Liliana Manea, Scientific resp.: C. Teodosiu - Contract CEEX MATNANTECH 77/2006, total value 1.340.000 RON, membra in echipa de proiect

Contracte încheiate cu companii, regii, societăţi commerciale

1. Contract nr 504/2023, Analize fizico-chimice privind calitatea apei uzate, Panifcom, director proiect: **Corina Musteret**, coordonator laborator LACMED: Carmen Teodosiu, valoare 2023: 12690 lei

2. Contract nr. 234 din 06.11.2020 (nr. inreg. TUIASI 23360 din 10.11.2020), Studiu privind tratabilitatea apei din raul Prut, statia de tratare apa potabila a orasului Darabani, judetul Botosani in cadrul proiectului beneficiarului *"Sprijin pentru pregatirea aplicatiei de finantare si a documentatiilor de atribuire pentru proiectul regional de dezvoltare a infrastructurii de apa si apa uzata din judetul Botosani, in perioada 2014-2020"*, Beneficiar: SC TADECO CONSULTING SRL, **director contract: Corina Musteret**, coordonator laborator LACMED: C. Teodosiu, perioada contract: 10.11.2020 - 26.02.2021, valoare totala: 41.000 RON

3. Contract 3633P/11.11.2011, Determinari analitice pentru masurari de emisii de poluanti in atmosfera si analize fizico-chimice a apei potabile, a apelor subterane, a apelor uzate si/sau industriale si a deseurilor solide si lichide, beneficiar: *S.C. DELPHI DIESEL SYSTEMS ROMANIA S.R.L,* **director proiect: C. Musteret**, coordonator laborator LACMED: C. Teodosiu, perioada contract: 11.11.2011 – 31.12.2021, valoare totala: 664.286 RON

4. Nr. Contract 5693/20.03.2018, Servicii de monitorizare a calitatii apelor evacuate la Statiunea de Cercetare Dezvoltare pentru Acvacultura si Ecologie Acvatica, beneficiar: UAIC, **Director contract: C. Musteret**, coordonator laborator LACMED: C. Teodosiu, perioada contract: 20.03.2018 – 31.12.2018; valoare totala: 4.100 RON.

5. Contract 6543/05.04.2017, Servicii de monitorizare a calitatii apelor evacuate la Statiunea de Cercetare Dezvoltare pentru Acvacultura si Ecologie Acvatica, beneficiar: UAIC, **Director contract: C. Musteret**, coordonator laborator LACMED: C. Teodosiu, perioada contract: 05.04.2017 – 31.12.2017; valoare totala: 4.100 RON.

6. Contract 3949/23.05.2013, Analize fizico-chimice ale apei uzate provenite de la Statia de epurare a apelor uzate a orasului Salcea, **director proiect: asist. dr. ing. Corina Musteret**, coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu,, perioada contract: 23.05.2013 - 23.05.2014; valoare totala: 1.436 RON, membra in echipa de proiect

7. Comanda 1662/11.01.2022, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 11.01.2022 – 31.01.2022, valoare totala 1228 RON fara TVA, membra in echipa de proiect

8. Comenzi nr. 381/2024 si 411/2024, Analize fizico-chimice privind calitatea apei subterane, Panifcom, responsabil comenzi: Corina Musteret, coordonator laborator LACMED: Carmen Teodosiu, valoare 2024: 3792 lei, membra in echipa de proiect

8. Comanda 1856/2024, Analize fizico-chimice privind calitatea apei uzate, Primaria Mihai Eminescu, responsabil comanda: Corina Musteret, coordonator laborator LACMED: Carmen Teodosiu, valoare 2024: 1293 lei, membra in echipa de proiect

9. Comanda 913/2024, Analize fizico-chimice privind calitatea apei uzate, Primaria Forasti, responsabil comanda: Corina Musteret, coordonator laborator LACMED: Carmen Teodosiu, valoare 2024: 4216 lei

10. Comenzi nr. 201/7037/246 din 03.06.2024 si 201/7037/247 din 04.06.2024, Analize fizico-chimice privind calitatea apei subterane, STRABAG S.R.L., responsabil comenzi: Corina Musteret, coordonator laborator LACMED: Carmen Teodosiu, valoare 2024: 2388 lei

11. Comanda nr. 315/2024, Analize fizico-chimice privind calitatea apei subterane, Pandora, responsabil comanda: Corina Musteret, coordonator laborator LACMED: Carmen Teodosiu, valoare 2024: 485 lei

12. **Contract 39770 din 21.10.2024, Determinari analitice pentru masurari de emisii de poluanti in atmosfera si analize fizico-chimice ale apelor subterane,** GENESIS BIOTECH SRL, Coordonator laborator LACMED: Carmen Teodosiu, director contract: Corina Musteret, valoare totala: 1695 lei fara TVA

13. Contract 1653P din 01.03.2024, Studiu de eficientizare a statiei de epurare a apelor uzate a S.C. ANTIBIOTICE S.A., director contract/coordonator LACMED: Carmen Teodosiu, ANTIBIOTICE S.A., valoare contract: 84527 lei, membra in echipa de proiect

14. Contract 3524 din 30.01.2023 (nr. inreg. TUIASI 2882 din 31.01.2023), Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 31.01.2023 - 30.01.2024, valoare totala: 9.591 lei fara TVA, membra in echipa de proiect

15.Contract 2087/30.01.2023, "Studii privind monitorizarea calitatii apelor uzate", Beneficiar: Universitatea de Medicina si Farmacie "Gr. T. Popa" Iasi, director contract: Petru Apopei, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 1.310 RON, membra in echipa de proiect

16. Comanda 14 din 02.03.2023, Evaluarea indicatorilor de calitate ai apei subterane din foraj de observatie si ai apei pluviale, beneficiar: SC Pasira Energy SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 02.03.2023 – 14.03.2023, valoare totala: 649 RON, membra in echipa de proiect

17. Contract DA32869503 din 23.03.2023 (nr. inreg. TUIASI 13788 27.04.2023), Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 23.03.2023 – 31.12.2023, membra in echipa de proiect

18. Contract 25 din 18.07.2023 (nr. inreg. TUIASI 26921 din 18.07.2023), Monitorizarea activitatii SRTFC Iasi pentru subunitatile sale: Depoul Iasi si Revizia vagoane Iasi din punct de vedere al protectiei mediului, prin analize fizico-chimice a factorului de mediu – apa uzata, beneficiar: SNTFC "CFR Calatori" S.A. – Sucursala Regionala de Transport Feroviar Calatori Iasi, Coordonator laborator LACMED/director contract: Carmen Teodosiu, perioada contract 18.07.2023-17.07.2024; valoare totala: 14.368 lei fara TVA, membra in echipa de proiect

19. Contract 17/25.01.2022, (nr. inreg. TUIASI 3806 din 03.02.2022) "Studii privind monitorizarea calitatii apelor uzate", Beneficiar: SC COMPLEX HOTELIER UNIREA SA, Coordonator laborator LACMED: Carmen Teodosiu, Director contract: Daniela Fighir, perioada contract 26.11.2021– 30.12.2022, valoare totala 6762 RON fara TVA, membra in echipa de proiect

20. Comanda 1668/09.02.2022, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 09.02.2022 – 28.02.2022, valoare totala 1228 RON fara TVA, membra in echipa de proiect

21. Contract EDL 2-2162 din 15.02.2022 (nr. inreg. TUIASI 6119 din 24.02.2022), "Studii privind compoziția materialului din colectare selectiva, intrat in instalatia de sortare si a compozitiei deseului menajer intrat in instalatia de tratare mecano-biologica Tutora, din judetul Iași", beneficiar: SC Edil Industry SRL, Coordonator laborator LACMED: C. Teodosiu, Director proiect: Daniela Gavrilescu, perioada contract: 07.02.2022 – 30.12.2022; valoare totala: 32000 RON fara TVA, membra in echipa de proiect

22. Comanda 128/16.02.2022, Evaluarea indicatorilor de calitate ai apei subterane, beneficiar: SC LUCIDO SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 16.02.2022 – 28.02.2022, valoare totala: 285 RON, membra in echipa de proiect

23. Contract 7439 din 18.02.2022 (nr. inreg. TUIASI 6118 din 24.02.2022), Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 18.02.2022 - 31.12.2022, valoare totala: 15.492 RON fara TVA, membra in echipa de proiect

24. Contract 835 din 22.02.2022, (nr. inreg. TUIASI 5824 din 22.02.2022) "Monitorizarea calitatii apelor pluviale si a emisiilor provenite de la centrala térmica pe gaz de la SC MENNEKES ELECTRIC SRL", beneficiar: SC MENNEKES ELECTRIC SRL, Coordonator laborator LACMED: C. Teodosiu, Director proiect: Carmen Paduraru perioada contract: 16.02.2022 – 30.12.2022; valoare totala: 1190 RON fara TVA, membra in echipa de proiect

25. Comanda 072/22.02.2022, Evaluarea indicatorilor de calitate ai apei apei uzate si ai apei epurate provenind de la statia de epurare a Liceului military din Campulung Moldovenesc, beneficiar: SC TEHNOTERM SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 22.02.2022 – 31.03.2022, valoare totala: 1240 RON, membra in echipa de proiect

26. Comanda 1668/02.03.2022, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR

PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 02.03.2022 – 12.04.2022, valoare totala 1228 RON fara TVA, membra in echipa de proiect

27. **Contract 15985 din 04.03.2022 (nr. inreg. TUIASI 9163 din 23.03.2022), Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman**, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 04.03.2022 – 31.12.2022; valoare totala: 14.286 RON, membra in echipa de proiect

28. Comanda 14/17.03.2022, Evaluarea indicatorilor de calitate ai apei subterane din foraj de observatie si ai apei pluviale, beneficiar: SC Pasira Energy SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 17.03.2022 – 07.04.2022, valoare totala: 580 RON, membra in echipa de proiect

29. Comanda 1676/01.04.2022, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 01.04.2022 – 12.04.2022, valoare totala 1228 RON fara TVA, membra in echipa de proiect

30. **Comanda 3 din 12.04.2022, Evaluarea indicatorilor de calitate ai apei subterane**, Beneficiar: IF Girlescu Marioara, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 12.04.2022 - 20.05.2022, valoare totala: 370 RON fara TVA, membra in echipa de proiect

31. Comanda 748/23.06.2021, “Studii privind monitorizarea calitatii apelor uzate”, Beneficiar: SC COTNARI SA, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 23.06.2021– 30.07.2021, valoare totala 980 RON fara TVA, membra in echipa de proiect

32. **Contract 1011 din 01.10.2021, Analize fizico-chimice privind calitatea apei uzate si a apei subterane provenite de la S.C. LATINI COM SRL**, beneficiar: S.C. LATINI COM S.R.L., Coordonator laborator LACMED: Carmen Teodosiu, director contract: Corina Musteret, perioada comanda: 01.10.2021-30.12.2022; valoare totala: 1.345 RON fara TVA, membra in echipa de proiect

33. Comanda 224/29.10.2021, “Studii privind monitorizarea calitatii apelor uzate”, Beneficiar: SC COMPLEX HOTELIER UNIREA SA, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 29.10.2021– 16.12.2021, valoare totala 483 RON fara TVA, membra in echipa de proiect

34. Comanda 1645/05.11.2021, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 05.11.2021 – 19.11.2021, valoare totala 1228 RON fara TVA, membra in echipa de proiect

35. Comanda 243/26.11.2021, “Studii privind monitorizarea calitatii apelor uzate”, Beneficiar: SC COMPLEX HOTELIER UNIREA SA, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 26.11.2021– 16.12.2021, valoare totala 483 RON fara TVA, membra in echipa de proiect

36. Comanda 1650/03.12.2021, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract 03.12.2021 – 16.12.2021, valoare totala 1228 RON fara TVA, membra in echipa de proiect

37. Contract EDL 2-2001 din 14.12.2021 (nr. inreg. TUIASI 41935 din 15.12.2021), “Studii privind monitorizarea calitatii aerului de la statia de tratare mecano-biologica Tutora”, beneficiar: SC Edil Industry SRL, Coordonator laborator LACMED: C. Teodosiu, Director proiect: Catalin Balan, perioada contract: 14.12.2021 – 30.12.2022; valoare totala: 2000 RON fara TVA, membra in echipa de proiect

38. Contract EDL 2-2000 din 14.12.2021 (nr. inreg. TUIASI 41936 din 15.12.2021), “Studii privind monitorizarea calitatii aerului de la statia de tratare mecano-biologica Tutora”, beneficiar: SC Edil Industry SRL, Director proiect/Coordonator laborator LACMED: C. Teodosiu, perioada contract: 14.12.2021 – 30.12.2022; valoare totala: 7324 RON fara TVA, membra in echipa de proiect

39. Contract 3987 din 29.01.2021 (nr. inreg. TUIASI 2211 din 01.02.2021), Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 01.02.2021 - 31.12.2021, valoare totala: 15.169 RON, membra in echipa de proiect

40. Comanda 129 din 18.01.2021, Evaluarea indicatorilor de calitate ai apei uzate, Beneficiar: SC N&F Belvedere SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 18.01.2021 - 26.01.2021, valoare totala: 265 RON, membra in echipa de proiect

41. Contract BC/IS21/IE-194 din 01.02.2021 (nr. inreg. TUIASI 4134 din 23.02.2021), ”Determinari analitice pentru masurari de emisii de poluanti in atmosfera de la santierului UBC Campus de pe strada Sfantul Andrei din municipiul Iasi”, beneficiar: S.C. BUILD CORP S.R.L., Director contract: s.l. dr. ing. Catalin Balan, coordonator laborator LACMED: C. Teodosiu, perioada contract: 01.02.2021 - 31.12.2021, valoare totala: 7.480 RON, membra in echipa de proiect

42. Contract DA27334921 din 05.02.2021 (nr. inreg. TUIASI 4135 din 23.02.2021), Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 05.02.2021 – 31.12.2021; valoare totala: 14.286 RON, membra in echipa de proiect

43. Comanda 210318-2/18.03.2021, Analize fizico-chimice pentru apa pluviala colectata in incinta Ecolandpark din Iasi, sos. Pacurari nr. 151, Beneficiar: SC ROM-PAPER 2000 SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 18.03.2021 - 24.03.2021, valoare totala: 450 RON, membra in echipa de proiect

44. Comanda 13 din 30.03.2021, Evaluarea indicatorilor de calitate ai apei uzate tehnologice, Beneficiar: SC TRANS GIGEL SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 30.03.2021 - 07.04.2021, valoare totala: 755 RON, membra in echipa de proiect

45. Contract 107 din 14.06.2021 (nr. inreg. TUIASI 16306 din 17.06.2021), A) Studiu privind tratabilitatea apei subterane (provenita din forajele de la Tinoasa si Sanzieni), statia de tratare apa potabila a localitatii Targu Secuiesc, judetul Covasna si B) Studiu privind tratabilitatea apei din pârâul Cosmos, statia de tratare apa potabila a localitatii Baraolt, judetul Covasna in cadrul proiectului beneficiarului *"Sprijin pentru pregatirea aplicatiei de finantare si a documentatiilor de atribuire pentru proiectul regional de dezvoltare a infrastructurii de apa si apa uzata din judetul Covasna, in perioada 2014-2020",* Beneficiar: SC TADECO CONSULTING SA, Director contract/coordonator laborator LACMED: C. Teodosiu, perioada contract: 14.06.2021 - 30.06.2021, valoare totala: 94.000 RON, membra in echipa de proiect

46. Comanda 581 din 17.06.2021, Analize fizico-chimice privind calitatea apei uzate si a apei subterane din forajele de supraveghere provenite de la S.C. LATINI COM SRL, beneficiar: S.C. LATINI COM S.R.L., responsabil comanda/coordonator laborator LACMED: Carmen Teodosiu, perioada comanda: 17.06.2021-01.07.2021; valoare totala: 1.345 RON, membra in echipa de proiect

47. Comanda EDL21-117 din 20.07.2021, Studii privind monitorizarea calitatii apelor subterane si pluviale provenite de la statiile de transfer si sortare deseuri din judetul Iasi, beneficiar: SC Edil Industry SRL, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 20.07.2021 – 27.07.2021; valoare totala: 2.455 RON, membra in echipa de proiect

48. Contract 4943 din 04.02.2020 (nr. inreg. TUIASI 2990 din 05.02.2020), Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 04.02.2020 - 31.12.2020, valoare totala: 12.880 RON, membra in echipa de proiect

49. Comanda 2156 din 23.07.2020, Analize fizico-chimice pentru apa freatica provenita din foraj de observatie de pe DN 29D, km 9+320, Beneficiar: SC RC GEOPROIECT SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 23.07.2020 - 29.08.2020, valoare totala: 260 RON, membra in echipa de proiect

50. Comanda 2155 din 21.07.2020, Analize fizico-chimice pentru ape freatice provenite din foraje de observatie de pe DN 11A, Beneficiar: SC RC GEOPROIECT SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 21.07.2020 - 29.08.2020, valoare totala: 2.340 RON, membra in echipa de proiect

51. Comanda 349/14.07.2020, beneficiar: SC COMPLEX HOTELIER UNIREA SA, Analize fizico-chimice privind calitatea apei uzate, Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 14.07.2020 - 29.08.2020, valoare totala: 2.392 RON, membra in echipa de proiect

52. Contract 28568 din 01.07.2020 (nr. inreg. TUIASI 12619 din 02.07.2020), Studiu privind compozitia pe fractii a deseurilor municipale din municipiul Iasi, Beneficiar: SC SALUBRIS SA, director contract: s.l. dr. ing. Daniela Gavrilescu, coordonator laborator LACMED: C. Teodosiu, perioada contract: 01.07.2020 - 30.06.2021, valoare totala: 33.000 RON, membra in echipa de proiect

53. Comanda 236/29.06.2020, beneficiar: Analize fizico-chimice privind calitatea apelor subterane si a solului, SC TERMICA VASLUI SA, , Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 29.05.2020 - 15.07.2020, valoare totala: 830 RON, membra in echipa de proiect

54. Contract DA24989530 din 06.02.2020 (nr. inreg. TUIASI 4614 20.02.2020), Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 06.02.2020 – 31.12.2020; valoare totala: 14.326 RON, membra in echipa de proiect

55. Comanda 25/30.06.2020, Analize fizico-chimice pentru ape subterane provenite din put de monitorizare laguna de dejectii de la ferma din sat Podu Hagiului, Beneficiar: SC PROD COM GORBAN SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 30.06.2020 - 30.08.2020, valoare totala: 535 RON, membra in echipa de proiect

56. Comanda 39/28.02.2020, beneficiar: SC COMPLEX HOTELIER UNIREA SA, Analize fizico-chimice privind calitatea apei uzate, Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 28.02.2020 - 30.04.2020, valoare totala: 225 RON, membra in echipa de proiect

57. Comanda 200602-4/06.02.2020, Analize fizico-chimice pentru apa pluviala colectata in incinta Ecolandpark din Iasi, sos. Pacurari nr. 151, Beneficiar: SC ROM-PAPER 2000 SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 17.05.2019 - 12.06.2019, valoare totala: 450 RON, membra in echipa de proiect

58. Comanda 10 din 14.01.2020, Evaluare indicatorilor de calitate ai apelor uzate provenite de la S.C. Casa de Vinuri Cotnari S.A., Beneficiar: S.C. Casa de Vinuri Cotnari S.A., Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 14.01.2020 - 25.02.2020, valoare totala: 860 RON, membra in echipa de proiect

59. Contract 11916/04.06.2019, Studii privind monitorizarea apelor uzate si analizarea solutiilor tehnice privind proiectarea tehnologica a unei statii de epurare a apelor uzate provenite din procesele de vopsire, beneficiar: SC MAJUTEX SRL, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 04.06.2019 – 30.07.2019; valoare totala: 10.491 RON, membra in echipa de proiect

60. Contract de cercetare nr. 29026 din 06.12.2019, Studii privind monitorizarea calitatii apelor subterane si pluviale provenite de la statiile de transfer si sortare deseuri din judetul Iasi, beneficiar: SC Edil Industry SRL, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 02.12.2019 – 02.12.2020; valoare totala: 4.880 RON, valoare 2019: 1425 RON, membra in echipa de proiect

61. Contract sectorial de servicii nr. 142 din 09.12.2019, Servicii de formare profesionala – Evaluarea performantelor de lucru si instruire in cromatografia de gaze cuplata cu spectrometria de masa (GC-MS) pentru analiza produsilor secundari de dezinfectie din apa, beneficiar: SC APAVITAL SA, director contract: C. Catrinescu, coordonator laborator LACMED: C. Teodosiu, perioada contract: 06.12.2019 – 31.12.2019; valoare an 2019: 8.400 RON, membra in echipa de proiect

62. Contract 15541/08.07.2019, Analize fizico-chimice pentru ape de suprafata provenite din lacul din zona Ungheni, Republica Moldova, beneficiar: SC Total gaz Industrie SRL, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 02.07.2019 – 31.12.2019; valoare totala: 948 RON, membra in echipa de proiect

63. Contract 10642/22.05.2019, Determinari analitice pentru masurari de emisii de poluanti in atmosfera si analize fizico-chimice ale apelor uzate si apelor subterane, beneficiar: SC GEIGER TRANSILVANIA SRL, director contract: B. Sluser, coordonator laborator LACMED: C. Teodosiu, perioada contract: 22.05.2019 – 31.12.2020; valoare an 2019: 4.208 RON, membra in echipa de proiect

64. Contract 9703/10.05.2019, Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 10.05.2019 – 31.12.2019; valoare totala: 14.326 RON, membra in echipa de proiect

65. Contract 2216 din 01.02.2019, Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 31.01.2019 - 31.12.2019, valoare totala: 15.942 RON, membra in echipa de proiect

66. Comanda 329 din 11.12.2019, Analize fizico-chimice pentru apa freatica provenita din puturile de observatie din incinta SC Casa Lebada SRL, Beneficiar: SC Casa Lebada SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 11.12.2019 - 31.12.2019, valoare totala: 2.070 RON, membra in echipa de proiect

67. Comanda 216 din 09.12.2019, Analize fizico-chimice pentru apa uzata provenita de la intrarea in Statia de epurare a apei uzate din cadrul Colegiului National ”Stefan cel Mare” Campulung Moldovenesc, Beneficiar: SC DBI TEAM SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 09.12.2019 - 31.12.2019, valoare totala: 1.228 RON, membra in echipa de proiect

68. Comenzi 193 din 20.11.2019 si 195 din 09.12.2019, Evaluare indicatorilor de calitate ai apelor uzate provenite de la S.C. Casa de Vinuri Cotnari S.A., Beneficiar: S.C. Casa de Vinuri Cotnari S.A., Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 20.11.2019 - 31.12.2019, valoare totala: 1.290 RON, membra in echipa de proiect

69. Comanda 20/18.11.2019, Analize fizico-chimice pentru ape subterane provenite din put de monitorizare laguna de dejectii de la ferma din sat Podu Hagiului, Beneficiar: SC PROD COM GORBAN SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 08.10.2019 - 28.10.2019, valoare totala: 535 RON, membra in echipa de proiect

70. Comanda 1781/08.10.2019, Analize fizico-chimice pentru ape subterane provenite din foraje, Beneficiar: SC RC GEOPROIECT SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, perioada comanda: 08.10.2019 - 28.10.2019, valoare totala: 520 RON, membra in echipa de proiect

71. Comenzi 40/15.03.2019 69/20.06.2019, 95/27.09.2019, 110 din 03.12.2019, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: Asociatia de Dezvoltare Intercomunitara Albesti-Todireni “Valea Jijiei”, Responsabil comenzi/coordonator laborator LACMED: C.Teodosiu, perioada comenzi: 15.03.2019 - 31.12.2019, valoare totala: 2.902 RON, membra in echipa de proiect

72. Comanda 10502 din 23.07.2019, Monitorizarea apelor subterane provenite din puturile de monitorizare de la depozitul inchis de deseuri din Tg. Neamt, Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 23.07.2019 - 09.12.2019, valoare totala: 1.518 RON, membra in echipa de proiect

73. Comanda 161/18.07.2019, beneficiar: SC COMPLEX HOTELIER UNIREA SA, Analize fizico-chimice privind calitatea apei uzate, Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 18.07.2019 - 30.07.2019, valoare totala: 245 RON, membra in echipa de proiect

74. Comanda 2593/08.07.2019, beneficiar: SC AQUAVAS SA Sucursala Vaslui, Evaluarea indicatorilor de calitate ai apei uzate, Responsabil comanda/coordonator laborator LACMED: C.Teodosiu, perioada comanda: 08.07.2019 - 30.07.2019,valoare totala: 5.343 RON, membra in echipa de proiect

75. Comanda 191705-2/17.05.2019, Analize fizico-chimice pentru apa pluviala colectata in incinta Ecolandpark din Iasi, sos. Pacurari nr. 151, Beneficiar: SC ROM-PAPER 2000 SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 17.05.2019 - 12.06.2019, valoare totala: 450 RON, membra in echipa de proiect

76. Comanda 8679 din 09.04.2019, Analize fizico-chimice privind calitatea apei subterane provenite din foraj, beneficiar: S.C. PROEXROM SRL Iasi, responsabil comanda: B. Sluser, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 09.04.2019– 20.05.2019, valoare totala: 245 RON, membra in echipa de proiect

77. Comanda 25/02.04.2019, Evaluare indicatorilor de calitate ai apelor uzate provenite de la piscina S.C. NEPTUN STREET S.R.L, beneficiar: S.C. NEPTUN STREET S.R.L, Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, perioada comanda: 02.04.2019– 20.05.2019, valoare totala: 640 RON, membra in echipa de proiect

78. Comanda 164/14.03.2019, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: SC TUTO-AUTO SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 14.03.2019 – 09.04.2019, valoare totala: 183 RON, membra in echipa de proiect

79. Comanda 48/25.02.2019, Evaluarea indicatorilor de calitate ai apei subterane din foraj de observatie, beneficiar: SC Pasira Energy SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.02.2019 – 13.03.2019, valoare totala: 330 RON, membra in echipa de proiect

80. Comanda 125/25.02.2019, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: SC DUSTAS SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.02.2019 – 20.05.2019, valoare totala: 363 RON, membra in echipa de proiect

81. Comanda 9370 din 21.02.2019, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: IULIUS MANAGEMENT CENTER, Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, perioada: 21.02.2019 – 13.03.2019, valoare totala: 1820 RON, membra in echipa de proiect

82. Comanda 102/16.01.2019, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: S.C. COMPLET SERV S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, perioada: 16.01.2019 – 05.02.2019, valoare totala: 620 RON, membra in echipa de proiect

83. Comenzile nr. 1126 din 09.01.2019, 2184 din 16.01.2019, 2924 din 21.01.2019, 3660 din 28.01.2019, Evaluarea indicatorilor de calitate apelor uzate provenite de la SEAU Iasi, Beneficiar: SC APAVITAL SA, Responsabil comenzi: P. Apopei, coordonator laborator LACMED: C. Teodosiu, perioada: 09.01.2019 – 28.05.2019, valoare totala: 306 RON, membra in echipa de proiect

84. Contract 212/08.02.2018, Monitorizarea factorilor de mediu stabiliti in programul de monitorizare postinchidere a depozitului neconform de deseuri Dorohoi, Beneficiar: Municipiul Dorohoi, Director contract/ coordonator laborator LACMED: C. Teodosiu, perioada: 01.12.2018 – 31.12.2018, valoare totala: 14.030 RON, membra in echipa de proiect

85. Contract 1256/26.01.2018, Monitorizarea eficientei proceselor din cadrul statiei de epurare a apelor uzate si monitorizarea calitatii apelor subterane de la abatorul de la Rachiti, Botosani, Beneficiar: SC AGRIMARVAS SRL, director contract: B. Sluser, coordonator laborator LACMED: C. Teodosiu, perioada: 26.01.2018 – 30.11.2018, valoare totala: 2.186 RON, membra in echipa de proiect

86. Contract 7689/16.04.2018, Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 16.04.2018 – 31.12.2018; valoare totala: 14.326 RON, membra in echipa de proiect

87. Contract 11087/25.05.2018, Determinari analitice pentru masurari de emisii de poluanti in atmosfera si analize fizico-chimice ale apelor uzate si apelor subterane, beneficiar: SC GEIGER TRANSILVANIA SRL, director contract: B. Sluser, coordonator laborator LACMED: C. Teodosiu, perioada contract: 25.05.2018 – 31.12.2018; valoare totala: 4.208 RON, membra in echipa de proiect

88. Contract 13873/26.06.2018, Monitorizarea eficientei proceselor din cadrul statiei de epurare a apelor uzate de la punctul de lucru Iasi, Beneficiar: SC FARMEXPERT DCI SRL, Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 26.06 – 31.12.2018, valoare totala 9072 RON fara TVA, membra in echipa de proiect

89. Contract 11917/05.06.2018, Analize fizico-chimice ale apei uzate menajere epurate evacuate in reteaua publica de canalizare centralizata existent pe DN28, provenite de la SC CASA AUTO VALEA LUPULUI SRL, Beneficiar: SC CASA AUTO VALEA LUPULUI SRL, Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 05.06 – 31.12.2018, valoare totala 913 RON fara TVA, membra in echipa de proiect

90. Contract 11916/05.06.2018, Analize fizico-chimice ale apei uzate menajere epurate evacuate in RAUL Valea Lupului, provenite de la SC CASA AUTO SRL, Beneficiar: SC CASA AUTO SRL, Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 05.06 – 31.12.2018, valoare totala 913 RON fara TVA, membra in echipa de proiect

91. Contract 23330/26.10.2018, Monitorizarea calitatii apei uzate provenita de la statia de epurare a SC Delphi Diesel Systems Romania SRL, comuna Miroslava, judetul Iasi, Beneficiar: SC MAX JUNIOR PROJECT SRL, Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 26.10.2018 – 20.10.2021, valoare totala 14736 RON fara TVA, membra in echipa de proiect

92. Comenzi 7855/15.02.2018 si 18560/23.04.2018, Analize fizico-chimice pentru ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 15.02.2018 - 31.12.2018, valoare totala: 33989 RON, membra in echipa de proiect

93. Comenzi 180228-1/28.02.2018 si 181016-1/16.10.2018, Analize fizico-chimice pentru apa pluviala colectata in incinta Ecolandpark din Iasi, sos. Pacurari nr. 151, Beneficiar: SC ROM-PAPER 2000 SRL, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 28.02.2018 - 31.12.2018, valoare totala: 450 RON, membra in echipa de proiect

94. Comanda 162/12.03.2018, Evaluarea indicatorilor de calitate ai aerului, Beneficiar: S.C. MARSEMAR S.A., responsabil comanda: C. Balan / coordonator laborator LACMED: C. Teodosiu, valoare totala: 285 RON, membra in echipa de proiect

95. Comanda 56/12.03.2018, Evaluarea indicatorilor de calitate ai aerului, beneficiar: S.C. MOBILARTE S.R.L., responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, valoare totala: 920 RON, membra in echipa de proiect

96. Comanda 1100/13.02.2018, Analize fizico-chimice pentru ape de suprafata, Beneficiar: SC RC GEOPROIECT SRL-D, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 1.040 RON, membra in echipa de proiect

97. Comanda 162/25.04.2018, Analize fizico-chimice pentru ape subterane, Beneficiar: SC LUCIDO SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 285 RON, membra in echipa de proiect

98. Comanda 27561/11.06.2018, Monitorizarea indicatorilor de calitate pentru aer din cadrul Serviciului de neutralizare ecologica a deseurilor periculoase al Spitalul Clinic Judetean de Urgente Sf. Spiridon, beneficiar: Spitalul Clinic Judetean de Urgente Sf. Spiridon, responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, valoare totala: 470 RON, membra in echipa de proiect

99. Comanda 2/30.05.2018, Analize fizico-chimice pentru ape subterane, Beneficiar: I.I. Tarcan Liviu, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 80 RON

100. Comanda 4501770576 din 15.05.2018, Evaluarea indicatorilor de calitate ai apei uzate, Beneficiar: COCA COLA HBC ROMANIA, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 3.686 RON, membra in echipa de proiect

101. Comanda 7821 din 08.06.2018, Analize fizico-chimice privind calitatea apei provenite din foraj, beneficiar: S.C. PROEXROM SRL Iasi, responsabil comanda: B. Sluser, coordonator laborator LACMED: C. Teodosiu, valoare totala: 245 RON, membra in echipa de proiect

102. Comanda 4011/11.06.2018, Monitorizarea factorului de mediu apa de la S.C. Brikston Construction Solutions S.A., beneficiar: S.C. Brikston Construction Solutions S.A., Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 735 RON, membra in echipa de proiect

103. Comenzi 262/12.09.2018 si 334/30.10.2018, Monitorizarea indicatorilor de calitate ai apelor uzate provenite de la sediul din Iasi a SC ERMES HOLDING SRL, beneficiar: SC ERMES HOLDING SRL, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 4300 RON, membra in echipa de proiect

104. Comanda 78/20.07.2018, Monitorizarea indicatorilor de calitate ai apelor uzate provenite de la SC SANDRA TRADING SRL, beneficiar: SC SANDRA TRADING SRL, Responsabil comanda / coordonator laborator LACMED: C.Teodosiu, valoare totala: 620 RON, membra in echipa de proiect

105. Comenzi BG3262/13.06.2018, BG 3489/26.06.2018, 2428/13.06.2018, BG4516 din 27.08.2018, 4483/18.10.2018, BG 5173 din 12.09.2018, beneficiar: SC AQUAVAS SA, Responsabil comanda/ coordonator laborator LACMED: C.Teodosiu, valoare totala: 20878 RON, membra in echipa de proiect

106. Comenzi 1752 din 11.01.2018, 2846 din 19.01.2018, 3248 din 23.01.2018, 3264 din 23.01.2018, 5797 din 07.02.2018, 6048 din 08.02.2018, 6159 din 09.02.2018, 7211 din 16.02.2018, 7915 din 09.02.2018, 11370/13.03.2018, 12465/19.02.2018, 12698/20.03.2018, 13078/21.03.2018, 14119/28.03.2018, 15259/03.04.2018, 17111/17.04.2018, 17554/19.04.2018, 18717/25.04.2018, 19895/02.05.2018, 20001/03.05.2018, 22831/17.05.2018, 23811/22.05.2018, 26706/06.06.2018, 28103/13.06.2018, 29173/13.06.2018, 32245/04.07.2018, 32738/06.07.2018, 33457/10.07.2018, 34735/18.07.2018, 39186/10.08.2018, 40598/21.08.2018, 41783/28.08.2018, 43390/05.09.2018, 43679/06.09.2018, 44683/12.09.2018, 45751/18.09.2018, 48514/02.10.2018, 50202/11.10.2018, 51114/16.10.2018, 57693/22.11.2018, 57828/22.11.2018, 58543/27.11.208, 59646/04.12.2018 Evaluarea indicatorilor de calitate apelor uzate provenite de la SEAU Iasi, beneficiar: S.C. APAVITAL S.A., responsabil comanda: P. Apopei, coordonator laborator LACMED: C. Teodosiu, valoare totala: 8.118 RON, membra in echipa de proiect

107. Comanda agenti economici nr 2880/20.01.2017, Analize fizico-chimice pentru ape subterane din foraje de observație si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, beneficiar: SC SALUBRIS SA, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada contract: 20.01.2017 – 31.12.2017; valoare totala: 19.021 RON, membra in echipa de proiect

108. Contract 908P/15.05.2017, Monitorizarea eficientei proceselor din cadrul statiei de epurare a apelor uzate Vaslui, Beneficiar: SC EMIT Group Ercole Marelli Impianti Tecnologici S.r.l., Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 15.05 – 31.12.2017, valoare totala 46.880 RON fara TVA, membra in echipa de proiect

109. Contract 1207P/26.06.2017, Monitorizarea eficientei proceselor din cadrul statiei de epurare a apelor uzate de la punctul de lucru Iasi, Beneficiar: SC FARMEXPERT, Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract 26.06 – 31.12.2017, valoare totala 8400 RON fara TVA, membra in echipa de proiect

110. Contract 1214P/26.06.2017, Monitorizarea factorilor de mediu de la S.C. FEROMET ”M” S.R.L., Director contract: L. Tofan, coordonator laborator LACMED: C. Teodosiu, perioada contract: 21.06.2017 – 31.12.2017; valoare totala: 790 RON, membra in echipa de proiect

111. Contract 456P/17.03.2017, Monitorizarea factorului de mediu apa si a nivelului de zgomot de la S.C. Brikston Construction Solutions S.A., Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 17.03.2017 – 31.12.2017; valoare totala: 2781 RON, membra in echipa de proiect

112. Contract 1213P/26.06.2017, Servicii de evaluare a personalului de laborator din cadrul S.C. APAVITAL SA, Director contract: G. Barjoveanu, coordonator laborator LACMED: C. Teodosiu, perioada contract: 26.06.2017 – 25.07.2017; valoare totala: 5.600 RON, membra in echipa de proiect

113. Contract 495P/27.03.2017, Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 27.03.2017 – 31.12.2017; valoare totala: 9828 RON, membra in echipa de proiect

114. Contract 960P/23.05.2017, Monitorizarea calitatii chimice si microbiologice a intermediarilor si produselor din cadrul S.C. ROMTEC AUSTRIA S.R.L., Director proiect /coordonator laborator LACMED: C. Teodosiu, perioada contract: 23.05.2017 – 20.12.2017; valoare totala: 1.663 RON, membra in echipa de proiect

115. Comanda 446/17.11.2017, Monitorizarea factorilor de mediu de la S.C. JIFFY PACKAGING S.A., Responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 17.11.2017 – 31.12.2017; valoare totala: 2.130 RON, membra in echipa de proiect

116. Comanda 251/14.11.2017, Evaluarea indicatorilor de calitate ai apei uzate, beneficiar: SC DUSTAS SRL, Responsabil comanda/coordonator laborator LACMED: C. Teodosiu, perioada comanda: 14.11.2017 – 31.12.2017; valoare totala: 320 RON, membra in echipa de proiect

117. Comenzi 543, 544 si 545 din 25.09.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul S.C. AGROSUIND COM S.R.L.- Abator Zanesti; Incinerator de la ferma de porci Basta; FNC Basta, Responsabil comenzi: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.09.2017 – 31.12.2017; valoare totala: 2.010 RON, membra in echipa de proiect

118. Comenzi 664 si 665 din 25.09.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul S.C. TC COMPIL IMPEX S.R.L.-Fabrica de mobila Roman; Fabrica de cherestea Tasca, Responsabil comenzi: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.09.2017 – 31.12.2017; valoare totala: 900 RON, membra in echipa de proiect

119. Comanda 296 din 25.09.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul S.C. BOVISELECT S.R.L., Fabrica de produse lactate Zanesti, Responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.09.2017 – 31.12.2017; valoare totala: 450 RON, membra in echipa de proiect

120. Comanda 118 din 25.09.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul S.C. DURAU S.A., Responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.09.2017 – 31.12.2017; valoare totala: 500 RON, membra in echipa de proiect

121. Comanda 97 din 25.09.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul S.C. PETROFOREST S.R.L.- Fabrica de cherestea Poiana Largului, Responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, perioada comanda: 25.09.2017 – 31.12.2017; valoare totala: 500 RON, membra in echipa de proiect

122. Comanda 002/22.02.2017, Evaluarea indicatorilor de calitate ai aerului si ai apei uzate, beneficiar: S.C. COMPLET SERV S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 1550 RON, membra in echipa de proiect

123. Comanda 56/21.02.2017, Evaluarea indicatorilor de calitate ai aerului, beneficiar: S.C. MOBILARTE S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 880 RON

124. Comanda 48/21.02.2017, Evaluarea indicatorilor de calitate ai aerului, beneficiar: S.C. MARSEMAR S.A., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 440 RON, membra in echipa de proiect

125. Comanda COL002331/ 09.11.2017 si COL000931/ 28.03.2017, Evaluarea indicatorilor de calitate ai aerului si ai apei uzate provenita de la S.C. A-E ELECTRONICS S.A., beneficiar: S.C. A-E ELECTRONICS S.A., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 2230 RON, membra in echipa de proiect

126. Comanda PEPO-170233-C5F/17.03.2017, Analize fizico-chimice pentru apele uzate, beneficiar: S.C. Process Engineering S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 1340 RON, membra in echipa de proiect

127. Comanda 19/27.04.2017, Evaluare indicatorilor de calitate ai apelor uzate provenite de la piscina S.C. NEPTUN STREET S.R.L, beneficiar: S.C. NEPTUN STREET S.R.L, Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 640 RON, membra in echipa de proiect

128. Comanda 07/19.01.2017, Analize fizico-chimice privind calitatea deseurilor colectate de catre S.C. RECIPLAST JUNIOR S.R.L., beneficiar: S.C. RECIPLAST JUNIOR S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 650 RON, membra in echipa de proiect

129. Comanda 13230/29.03.2017, Monitorizarea indicatorilor de calitate pentru aer din cadrul Serviciului de neutralizare ecologica a deseurilor periculoase al Spitalul Clinic Judetean de Urgente Sf. Spiridon, beneficiar: Spitalul Clinic Judetean de Urgente Sf. Spiridon, Responsabil comanda: C. Balan/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 940 RON, membra in echipa de proiect

130. Comanda 012/19.01.2017, Evaluarea indicatorilor de calitate ai apei uzate provenita de la statia de epurare din cadrul CRRN Sasca Mica, Jud. Suceava, beneficiar: S.C. HIGH - TECH S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 1230 RON, membra in echipa de proiect

131. Comanda 1098/30.06.2017, Evaluarea indicatorilor de calitate ai aerului de la uscatorul de agregate a S.C. IMROM S.A., beneficiar: S.C. IMROM S.A., responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, valoare totala: 830 RON, membra in echipa de proiect

132. Comanda 743P/26.04.2017, Evaluarea indicatorilor de calitate ai aerului, beneficiar: S.C. EUROSERVICE TECHNOLOGY S.R.L., responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, valoare totala: 250 RON, membra in echipa de proiect

133. Comanda 22475/19.12.2016, Evaluarea indicatorilor de calitate ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 525 RON, membra in echipa de proiect

134. Comanda 28068/17.02.2017, Evaluarea indicatorilor de calitate ai apei potabile provenita de la S.C. GfK ROMANIA-Institut de Cercetare de Piata S.R.L., beneficiar: S.C. GfK ROMANIA-Institut de Cercetare de Piata S.R.L., Responsabil comanda/ coordonator laborator LACMED: C. Teodosiu, valoare totala: 320 RON, membra in echipa de proiect

135. Comenzile nr. 16719 din 13.04.2017, 18064 din 24.04.2017, 18706 din 27.04.2017, 21682 din 12.05.2017, 22434 din 17.05.2017, 24538 din 25.05.2017, 26664 din 08.06.2017, 28091 din 15.06.2017, 29792 din 23.06.2017, 33213 din 11.07.2017, 34946 din 19.07.2017, 41216 din 25.08.2017, 29792 din 23.06.2017, 43414 din 07.09.2017, 44983 din 15.09.2017, 45567 din 19.09.2017, 46936 din 27.09.2017, 49893 din 11.10.2017, 50960 din 17.10.2017, 51125 din 18.10.2017, 51425 din 19.10.2017, 53070 din 30.10.2017, 54666 din 07.11.2017, 55870 din 14.11.2017, 56015 din 14.11.2017, 57243 din 21.11.2017, 59681 din 06.12.2017, 60799 din 13.12.2017, 61235 din 14.12.2017, 61307 din 15.12.2017, 61765 din 19.12.2017, Evaluarea indicatorilor de calitate apelor uzate provenite de la SEAU Iasi, Beneficiar: SC APAVITAL SA, Responsabil comenzi: P. Apopei, coordonator laborator LACMED: C. Teodosiu, valoare totala: 5.241 RON, membra in echipa de proiect

136. Contract 1755P/16.11.2015, Evaluarea indicatorilor de calitate ai apelor uzate provenite de la Statia de epurare de la Radauti, beneficiar: S.C. UTI GRUP S.A., Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 13.11.2015 – 31.12.2016; valoare totala: 138.420 RON, membra in echipa de proiect

137. Comanda agenti economici nr 30219/2016, 2016. Evaluarea indicatorilor de calitate ai aerului si ai apei subterane de la depozitele ȚUȚORA si TOMESTI, Beneficiar: SC SALUBRIS SA IASI, Director proiect /coordonator laborator LACMED: C. Teodosiu, valoare totala: 10916 RON, membra in echipa de proiect

138. Comanda agenti economici nr. 1777P/2016, 2016- Evaluarea indicatorilor de calitate ai apei potabile, Director proiect /coordonator laborator LACMED: C. Teodosiu, valoare totala: 300 RON, membra in echipa de proiect

139. Contract agenti economici nr 2156P/2016, Monitorizarea factorilor de mediu din cadrul S.C.TECHNOSTEEL LBR S.R.L, Director proiect /coordonator laborator LACMED: C. Teodosiu, valoare totala: 530 RON, membra in echipa de proiect

140. Comanda agenti economici nr COL000276/2016, Evaluarea indicatorilor de calitate ai aerului si ai apei uzate provenita de la S.C. A-E ELECTRONICS S.A., Director proiect /coordonator laborator LACMED: C. Teodosiu, valoare totala: 925 RON, membra in echipa de proiect

141. Comanda agenti economici nr 1384/2016, Evaluarea indicatorilor de calitate ai apei subterane de la S.C. INTERAGROALIMENT S.R.L., Director proiect /coordonator laborator LACMED: C. Teodosiu, valoare totala: 625 RON, membra in echipa de proiect

142. Contract 533P/2015, Analize fizico-chimice privind calitatea apelor uzate provenite de la Statia de epurarea a S.C. DELPHI PACKARD MOLDOVA NOUA S.R.L., beneficiar: *SC MAX JUNIOR PROJECT SRL*, Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 20.04.2015-20.04.2018; valoare totala: 13195 RON, membra in echipa de proiect

143. Contract 439P/2015, Analize fizico-chimice ale apei uzate provenite de la statii de epurare a apelor uzate: beneficiar: S.C. ADISS S.A.; Director proiect/coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 31.03.2015-31.12.2018; valoare totala: 59.155 RON, membra in echipa de proiect

144. Contract 826P/17.05.2016, Monitorizarea imisiilor atmosferice de la S.C. NILGOM S.R.L., Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 16.05.2016 - 31.12.2016, valoare totala: 3.033 RON, membra in echipa de proiect

145. Contract 704P/22.04.2016, Monitorizarea factorilor de mediu de la S.C. FEROMET ”M” S.R.L., director proiect: conf. dr. chim. Carmen Paduraru, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 22.04.2016 - 31.12.2016, valoare totala: 600 RON, membra in echipa de proiect

146. Comanda 16/15.04.2016, Analize fizico-chimice pentru ape uzate provenite de la piscina S.C. NEPTUN STREET S.R.L., director comanda/coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu, valoare totala: 710 RON, membra in echipa de proiect

147. Contract 551P/31.03.2016, Monitorizarea factorilor de mediu apa, aer si zgomot de la S.C. Brikston Construction Solutions S.A., beneficiar: S.C. BRIKSTON CONSTRUCTION SOLUTION S.A., Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 31.03.2016-31.12.2016; valoare totala: 6760 RON, membra in echipa de proiect

148. Comanda 141/15.03.2016, Analize fizico-chimice pentru aer si ape freatice provenite de la S.C. SUBEX S.A., Director proiect/ coordonator laborator LACMED: Carmen Teodosiu,, valoare totala: 1.530 RON, membra in echipa de proiect

149. Comanda 117/04.04.2016, Determinarea nivelului de zgomot de la S.C. ITALTEX S.R.L., director comanda: asist. dr. ing. Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 300 RON, membra in echipa de proiect

150. Contract 570P/01.04.2016, Monitorizarea factorilor de mediu de la S.C. ELECTROALFA S.R.L., director proiect: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 01.04.2016 - 31.12.2016, valoare totala: 1.020 RON, membra in echipa de proiect

151. Comanda 361/24.03.2016, si Comanda 1181/2016. Analize fizico-chimice pentru ape uzate provenite de la S.C. FARMEXPERT D.C.I. – Sucursala Iasi, Director comanda/ coordonator laborator LACMED: Carmen Teodosiu,, valoare totala: 4960 RON, membra in echipa de proiect

152. Contract 310P/24.02.2016, Analize fizico-chimice privind calitatea apelor subterane, apelor pluviale si levigat, beneficiar: S.C. Urban Serv S.A. Botosani, Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 24.02.2015-01.12.2016, valoare totala: 3897 RON, membra in echipa de proiect

153. Comanda 9219/01.03.2016, Analize fizico-chimice privind calitatea apelor uzate evacuate in reteaua de canalizare oraseneasca, de la Centrul Municipal de Colectare Iasi, Beneficiar: SC SALUBRIS SA, director comanda: Brandusa Robu (Sluser), coordonator laborator LACMED: Carmen Teodosiu, perioada comanda: 01.03.2016 - 31.12.2016, valoare totala: 4.912 RON, membra in echipa de proiect

154. Contract 191P/04.02.2015, Evaluarea indicatorilor de calitate ai emisiilor rezultate din procesul de productie si ai apelor uzate evacuate in reteaua de canalizare, beneficiar: S.C. VEF SA Focsani, Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 08.02.2016-31.12.2018; valoare totala: 4905 RON, membra in echipa de proiect

155. Comanda 2125/15.01.2016, Analize fizico-chimice pentru levigat, permeat, concentrat, ape din forajele de observație, ape de suprafață si probe de aer de la depozitele ȚUȚORA si TOMESTI, Beneficiar:

SC SALUBRIS SA, director comanda: Brandusa Robu (Sluser), coordonator laborator LACMED: Carmen Teodosiu, perioada comanda: 15.01.2016 - 31.12.2016, valoare totala: 16.920 RON, membra in echipa de proiect

156. Comanda 86/23.02.2016, Analize fizico-chimice pentru aer provenite de la S.C. MARSEMAR S.A. Husi, director comanda: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 430 RON, membra in echipa de proiect

157. Contract 84P/25.01.2016, Evaluarea indicatorilor de calitate a apelor uzate provenite de la SEAU Husi, director proiect: Lavinia Tofan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 25.01.2016 - 25.04.2016, valoare totala: 200 RON, membra in echipa de proiect

158. Comanda 652A16/10.02.2016, Analize ale indicatorilor de calitate pentru aer, Beneficiar: Universitatea de Medicina si Farmacie “Gr. T. Popa” Iasi, director comanda: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 480 RON, membra in echipa de proiect

159. Comanda IS 083/25.01.2016, Analize ale indicatorilor de calitate pentru aer, Beneficiar: S.C. EUROSERVICE TECHNOLOGY S.R.L., director comanda: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 240 RON, membra in echipa de proiect

160. Comanda 109/03.02.2016, Analize ale indicatorilor de calitate pentru aer, Beneficiar: S.C. DUSTAS S.R.L., director comanda: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 450 RON, membra in echipa de proiect

161. Contract 70 P/2015, Analize fizico-chimice privind calitatea apelor pluviale, levigat si ape subterane, beneficiar: S.C. Urban Serv S.A. Botosani, Director proiect/ coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 26.01.2015-31.12.2015, valoare totala: 5274 RON, membra in echipa de proiect

162. Contract 197 P/2015, Analize fizico-chimice privind calitatea nisipului uzat provenit de la activitatea turnatoriei, beneficiar: S.C. EURO CASTING S.R.L., director proiect: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 26.02.2015-31.12.2015; valoare totala: 1.256 RON, membra in echipa de proiect

163. Contract 78 P/2015, Analize fizico-chimice privind calitatea aerului si a apelor uzate evacuate in reteaua de canalizare, beneficiar: S.C. Vef SA Focsani, director contract: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:26.01.2015-31.12.2015; valoare totala:1.214 RON, membra in echipa de proiect

164. Contract 450 P/2015, Analize fizico-chimice privind calitatea apelor uzate provenite de la cazarma nr. 1821 Miercurea Ciuc, beneficiar: UM 02543 Iasi, director contract: Daniela Gavrilescu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 01.04.2015-31.12.2015; valoare totala:1.770 RON, membra in echipa de proiect

165. Contract 615 P/2015, Analize fizico-chimice privind calitatea apei uzate si a aerului provenite de la S.C. GARTEK SRL, beneficiar: S.C. GARTEK SRL HUSI, director contract: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 23.04.2015-31.12.2015; valoare totala: 1.185 RON, membra in echipa de proiect

166. Contract 513 P/2015, Analize privind monitorizarea factorilor de mediu apa,aer si zgomot provenite de la S.C. BRIKSTON CONSTRUCTION SOLUTION S.A., beneficiar: S.C. BRIKSTON CONSTRUCTION SOLUTION S.A.,director proiect: Catalin Balan /Daniela Gavrilescu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:21.04.2015-31.12.2015; valoare totala:7.200 RON, membra in echipa de proiect

167. Comanda 18394/2015, Evaluarea indicatorilor de calitate ai aerului si ai apei subterane, Beneficiar: SC SALUBRIS SA, director proiect: George Barjoveanu, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 6588 RON, membra in echipa de proiect

168. Comanda nr. PEPO-150461-13B/2015, Analize fizico-chimice pentru apele uzate, Beneficiar: SC PROCESS ENGINEERING SRL Bucuresti, responsabil comanda: Daniela Fighir, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 2000 RON, membra in echipa de proiect

169. Contract 1073P/2015, Analize fizico-chimice privind calitatea apei uzate provenite de la SEAU Iasi, beneficiar: EMIT GROUP RO, director contract: George Barjoveanu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:30.06.2015-31.07.2015; valoare totala: 1.320 RON, membra in echipa de proiect

170. Contract 1068P/2015, Analize fizico-chimice privind calitatea apei uzate si a apei subterane din forajele de supraveghere provenite de la S.C. LATINI COM SRL,beneficiar: S.C. LATINI COM S.R.L.,

director contract: George Barjoveanu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 29.06.2015-31.12.2016; valoare totala: 2.066 RON, membra in echipa de proiect

171. Contract 14516/2015, Analize fizico-chimice privind calitatea apei uzate, apei de suprafata si a apei subterane din putul de foraj provenite de la S.C. INTERAGROALIMENT SRL, beneficiar: S.C. INTERAGROALIMENT SRL, director contract: Petru Apopei, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 23.06.2015-31.12.2015; valoare totala: 2148,3 RON, membra in echipa de proiect

172. Contract 423P/2015, Analize fizico-chimice privind calitatea apei uzate provenite de la SEAU Iasi, beneficiar: S.C. APAVITAL SA, director contract: Petru Apopei, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 2015; valoare totala: 576 RON, membra in echipa de proiect

173. Contract 1338P/2015, Analize fizico-chimice privind calitatea deseurilor colectate de catre S.C. RECIPLAST JUNIOR SRL, beneficiar: S.C. RECIPLAST JUNIOR SRL, director contract: Carmen Paduraru, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:17.09.2015-17.09.2016; valoare totala: 800 RON, membra in echipa de proiect

174. Contract 1399 P/2015, Analize fizico-chimice privind calitatea deseurilor menajere recoltate din depozitul de deseuri neconforme Campia Turzii, beneficiar: S.C. PROEXROM SRL Iasi, director contract: Brandusa Robu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:17.09.2015-17.09.2016; valoare totala:3.120 RON, membra in echipa de proiect

175. Contract 1548P/15.10.2015, Evaluarea indicatorilor de calitate ai apelor uzate provenite de la Statii de epurare, beneficiar: S.C. ESPINA OBRAS HIDRAULICAS S.A., director contract: George Barjoveanu, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:15.10.2015-31.12.2016; valoare totala: 30.030 RON, membra in echipa de proiect

176. Contract 244 P/2015, Analize fizico-chimice privind calitatea dejectiilor provenite de la ferma de crestere a vacilor Brosteni, beneficiar: S.C. PANIFCOM S.R.L., responsabil contract: Fighir Daniela, coordonator laborator LACMED: Carmen Teodosiu, perioada contract:03.03.2015-31.03.2015; valoare totala:900 RON, membra in echipa de proiect

177. Comanda nr. 1248P(3757)/2015, Determinarea pPH-ului pentru probele de sol, Beneficiar: SC PROEXROM SRL Iasi, responsabil comanda: Petru Apopei, coordonator laborator LACMED: Carmen Teodosiu,valoare totala: 735 RON

178. Comanda nr. 322/2015 Evaluarea indicatorilor de calitate ai aerului, Beneficiar: SC MARCOMIUS SRL Husi, responsabil comanda: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu,valoare totala: 290 lei, membra in echipa de proiect

179. Contract 875 P/2015, Analize fizico-chimice privind calitatea aerului provenit de la S.C. BMTECH S.R.L., beneficiar: S.C. BMTECH S.R.L. Vladeni, responsabil contract: Catalin Balan, coordonator laborator LACMED: Carmen Teodosiu, perioada contract: 04.06.2015-31.07.2015; valoare totala: 920 RON, membra in echipa de proiect

180. Contract 1117P/23.05.2014, Analize fizico-chimice privind calitatea apelor uzate provenite de la UM 02543 Iasi, director proiect / coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu, perioada contract: 2014-2015, valoare totala: 3.760 RON, membra in echipa de proiect

181. Contract 829 P/2014, Analize privind monitorizarea factorilor de mediu aer si zgomot provenite de la S.C. Ceramica SA Iasi, responsabilproiect: asist. dr. ing. Catalin Balan, coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu, perioada contract: 2014; valoare totala: 3.000 RON, membra in echipa de proiect

182. Contract 1488 P/2014,Analize fizico-chimice privind calitatea apelor uzate din canalul colector si a apei din panza freatica provenite de la S.C. Mecanex S.A., responsabilproiect: asist. dr. ing. Catalin Balan, coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu,perioada contract: 2014; valoare totala:1.217 RON, membra in echipa de proiect

183. Contract 1798 P/2014,Analize fizico-chimice privind calitatea solurilor si a apei provenite din foraj, beneficiar:S.C. PROEXROM SRL Iasi, responsabilproiect: conf. dr. ing. Brandusa Robu, coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu,perioada contract: 2014; valoare totala:2277 RON, membra in echipa de proiect

184. Contract 1884 P/2014, Analize fizico-chimice privind calitatea aerului provenit din hala de tratare (dezmembrare) a deseurilor de echipamente electrice si electronice a S.C. ECOREC RECYCLING SRL Buhusi, director proiect: asist. dr. ing. Catalin Balan, coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu,perioada contract: 2014; valoare totala: 2.340 RON, membra in echipa de proiect

185. Contract 638/15.04.2013, Analize fizico-chimice ale apei uzate provenite de la statii de epurare a apelor uzate,director proiect: s.l. dr. chim. Carmen Paduraru; beneficiar: S.C. ADISS S.A.;coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu, perioada contract: 16.04.2013 –30.12.2014; valoare totala: 4.736 RON, membra in echipa de proiect

186. Contract 927P/18.07.2013, Analize fizico-chimice ale apei uzate provenite de la Statia de epurare a apelor uzate a comunei Bosanci, Suceava, director proiect: s.l. dr. chim. Carmen Paduraru; coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu,Contract period:18.07.2013 - 30.07.2013; Total value: 584 RON, membra in echipa de proiect

187. Contract 1795P/17.12.2013, Analize fizico-chimice privind calitatea apelor uzate si analiza aerului(emisii si imisii) provenite de la S.C. Complet Serv SRL Barlad, director proiect / coordonator laborator LACMED: prof. dr. ing.Carmen Teodosiu, perioada contract: 2013 – 2014, valoare totala: 600 RON, membra in echipa de proiect

188. Contract 1525 P/2013, Determinare emisii in atmosfera conform impunerilor prin autorizatia de mediu nr.191/2010, beneficiar: S.C. Vef SA Focsani, director proiect: asist. dr. ing. Catalin Balan, coordonator laborator LACMED: prof. dr. ing. Carmen Teodosiu, perioada contract: 2013 - 2014; valoare totala: 1.800 RON, membra in echipa de proiect

X. Specializări şi stagii de cercetare in tara si strainatate

1. STREAM 2nd Summer School, Sustainable Technologies and Research for European Aquatic Management, organizata de Rome Tre University, The Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), The National Research Council, Water Research Institute (CNR-IRSA), The BIC Lazio (Business Innovation Center), The Agency for the Promotion of the European Research (APRE) and the Enterprise Europe Network (EEN), Roma, Italia, 24-29 septembrie 2012

2. DEX Summer School 2010 – Advanced Course on Waste Water Treatment, Rottenbach, Austria, 04 – 09 iulie 2010

3. 2nd Marie Curie Summer School - “Climate Change and Natural Resources: impacts and water challenge”, The Ca’ Foscari University- Department of Environmental Sciences and European Centre for Living Technology, Venetia, Italia, 07-11 septembrie 2008

4. Research stage at Institute on Membrane Technology (ITM-CNR), 07 iunie – 27 iulie 2008, University of Calabria

5. International Workshop “Demonstration on the production and use of porous hydrophobic membranes for application as membrane contactors, Institute on Membrane Technology (ITM-CNR), University of Calabria, Italia, 23-24 iunie 2008

6. 3rd Summer School of Environmental Chemistry and Ecototoxicology: The Advances and Trends in Environmental Chemistry and Ecotoxicology of Persistent, Toxic Substance, Brno, Czech Republic, 09 – 15 iulie 2007

7. International Training Workshop on Environmental and Occupational Health: Fundamentals of Environmental Chemistry, Bucharest, Romania (sponsored by The National Institutes of Health, USA), 25 – 28 iunie 2007

XI. Premii pentru activitatea de cercetare științifică

1. **Best Paper Award**, 2026, *The Use of Coagulation–Flocculation for Industrial Colored Wastewater Treatment—(I) The Application of Hybrid Materials*, Appl. Sci. 2024, 14(5), 2184; https://doi.org/10.3390/app14052184

2. Premiul de excelenta 2016 si medalia ”Gheorghe Asachi” pentru categoria ”Grupul care a contribuit la atragerea celor mai multe fonduri private pentru cercetare” pentru activitatea din perioada 2013-2015, Zilele Universității Tehnice “Gheorghe Asachi” din Iași, 08 noiembrie 2016

3. The World Exhibition on Inventions, Research and New Technologies, Brussels Innova 17-19 Nov. 2016, Bruxel, Belgium - Gold Medal for the Patent request: Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Authors: George Barjoveanu, Carmen Teodosiu, Cezar Catrinescu, Daniela Fighir, Daniela Gavrilescu, Corina Musteret

4. Targul International de Inventii si Idei Practice INVENT-INVEST 15-18 Sept. 2016, Iasi, Romania - Diploma de Excelenta si Medalia de Aur, Patent request: Procedeu integrat de degradare chimică și

separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Authors: George Barjoveanu, Carmen Teodosiu, Cezar Catrinescu, Daniela Fighir, Daniela Gavrilescu, Corina Musteret

5. Premiul de excelență 2014 și medalia ”Gheorghe Asachi” pentru categoria Grupul care a contribuit la atragerea celor mai multe fonduri pentru cercetare pentru activitatea din perioada 2011-2013, Zilele Universității Tehnice “Gheorghe Asachi” din Iași, 13-15 noiembrie 2014

6. Premiu special “The Green Environment”, Expozitia Internationala a creativitatii si Inovarii EUROINVENT, 7-9 mai 2010, Iasi, Romania, pentru lucrarea *Innovative integrated treatment for textile effluents*

7. Medalie de aur, the 5th international Salon of Inventions and New Technologies NEW TIME, 24-26 september 2009, Sevastopol, Ucraina, for invention *Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment*

8. Medalie de argint , *Le salon international de l'Innovation de la Recherche et des Nouvelles technologies,* 13-15 nov. 2008, Brussels, Belgia, for invention *Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment*

9. Medalie de aur, International festival of innovation, knowledge and creation Teslafest, 11-15 October 2008, Novi Sad, Serbia, pentru lucrarea *Integrated Method of Ultrafiltration-Ultrasonication for Wastewater Treatment*

10. Medalie de aur, INVENTICA 2008, Editia a XII-a, 12 – 24 mai 2008, Iaşi, for invention *Ultrasonic activated and biosensors controlled filtration computerized systems for textile processes*

11. Medalie de argint, Salon International Des Inventions Genève, Elvetia, 3 April 2009, for invention *Méthode intégrée d'ultrafiltration ultrasonique pour le traitment des eaux usées*

12. Medalie de aur, Salonul International al Cercetarii, Inovarii si Inventicii, Editia a VII-a, 2009, Cluj-Napoca, pentru inventian *Procedeu integrat de ultrafiltrare-ultrasonare pentru epurarea apelor uzate*

13. Diploma de excelenţă acordata la Salonul Regional al Cercetarii, 2009, Bacau pentru lucrarea *Procedeu integrat de ultrafiltrare-ultrasonare pentru epurarea apelor uzate*

14. Diploma de excelenţă şi medalie de aur la IX Specialized International Exhibition Infoinvent, Chisinau, Moldova, 24-27 Noiembrie 2009 pentru lucrarea *Procedeu integrat de ultrafiltrare-ultrasonare pentru epurarea apelor uzate*

01.10.2026 Şef lucrări dr. ing. Corina-Petronela Mustereţ

Lista de lucrări în domeniul de studii universitare de licență

Numele şi prenumele: **BEȚIANU (SMARANDA) CAMELIA**

A. Teza de doctorat.

Instituție: Universitatea Tehnică “Ghe Asachi” din Iași
Perioada: 2003-2011
Coordonator: Conducător științific: Prof. dr. ing. Maria Gavrilescu.
Titlul tezei: *Studii privind comportarea unor poluanţi persistenţi în mediu*
Titlul: Doctor în Inginerie Chimică, seria H, nr. 0015947

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. **Camelia Bețianu**, Petronela Cozma, Maria Gavrilescu, Human health hazards and risks generated by the bioaccumulation of lead from the environment in the food chain, In: Lead Toxicity Mitigation: Sustainable Nexus Approaches, N. Kumar, A. Kumar Jha (Eds.), Springer, 73-124, 2024.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Maria Gavrilescu (coordonator), Mariana Diaconu, Laura Bulgariu, Irina Volf, Cezar Catrinescu, **Camelia Smaranda**, Petronela Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Laura Carmen Apostol, Elena-Diana Comăniță, Mihaeala Roșca, Sebastian Ionuț Vasilica, *Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului,* Editura Performantica, Iasi, ISBN 978-606-685-690-4, 2019.
2. Maria Gavrilescu, Igor Crețescu, Teodor Măluțan, Adrian Puițel, **Camelia Smaranda**, Petronela Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Isabela-Maria Simion, Diana-Elena Comăniță, Mihaela Roșca, Teofil Câmpean, *Strategii și soluții pentru eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici,* Editura Politehnium, ISBN 978-973-621-481-3, 2018.
3. **Camelia Smaranda**, Raluca Maria Hlihor, Laura Carmen Apostol, Laura Bulgariu, Mariana Diaconu, Maria Emiliana Fortuna, Maria Gavrilescu, *Biosorption and bioaccumulation: Principles and potential applications in bioremediation*, Cap. 2, In: *Biosorption and bioaccumulation: principles and applications in environmental bioremediation*, Editor Maria Gavrilescu, Editura Politehnium, Iasi, 29-74, 2016.
4. Raluca-Maria Hlihor, Laura Carmen Apostol, **Camelia Smaranda**, Isabela Maria Simion, Maria Emiliana Fortuna, Mariana Diaconu, Laura Bulgariu, Maria Gavrilescu, *Target compounds and pollutants, biosorbents and bioaccumulators*, Editor Maria Gavrilescu, Cap. 3, In: *Biosorption and bioaccumulation: principles and applications in environmental bioremediation*, Editura Politehnium, Iasi, 75-124, 2016.
5. Laura Bulgariu, Laura Carmen Apostol, **Camelia Smaranda**, Raluca-Maria

Hlihor, Mariana Diaconu, Maria Gavrilescu, *Analytical assays, techniques and instruments*, Cap. 4, In: *Biosorption and bioaccumulation: principles and applications in environmental bioremediation*, Editor Maria Gavrilescu, Editura Politehnium, Iasi, 125-142, 2016.

6. Laura-Carmen Apostol, Raluca-Maria Hlihor, **Camelia Smaranda**, Maria Gavrilescu, *Biosorption and bioaccumulation of organic pollutants*, Editor Maria Gavrilescu, Cap. 6, In: *Biosorption and bioaccumulation: principles and applications in environmental bioremediation*, Editura Politehnium, Iasi, 115-144, 2016.
7. **Camelia Smaranda**, Maria Gavrilescu, *Behaviour of organic contaminants in soil environment.* In: *Current topics, concepts and research priorities in environmental chemistry*, Editor Carmen Zaharia, Vol. III, Editura Universitatii Alexandru Ioan Cuza din Iasi, ISBN 978-973-703-797-8, vol. III: ISBN 978-606-714-062-0, pp. 83-111, 2014.
8. Florentina Anca Căliman, Brînduşa Mihaela Robu, **Camelia Smaranda**, Vasile Lucian Pavel, Maria Gavrilescu (Editor), *Poluanţi persistenţi în mediu. I. Produse farmaceutice şi de igienă*, Editura Politehnium, Iaşi, 2009, ISBN 978-973-621-280-2, vol. I: ISBN 978-973-621-281-9.
9. Florentina Anca Căliman, Brînduşa Mihaela Robu, **Camelia Smaranda**, Vasile Lucian Pavel, Maria Gavrilescu (Editor), *Persistent Pollutants in the Environment. II. Persistant Organic Pollutants and Dyes* (In Romanian) Editura Politehnium, Iasi, 2009, ISBN 978-973-621-280-2, vol. II: ISBN 978-973-621-282-6.
10. Florentina Anca Căliman, Brînduşa Mihaela Robu, **Camelia Smaranda**, Vasile Lucian Pavel, Maria Gavrilescu (Editor), Persistent Pollutants in the Environment. III. Heavy Metals (In Romanian). Editura Politehnium, Iasi, 2009, ISBN 978-973-621-280-2, vol. III: ISBN 978-973-621-283-3.
11. Florentina Anca Căliman, Brînduşa Mihaela Robu, **Camelia Smaranda**, Vasile Lucian Pavel, Maria Gavrilescu (Editor), Persistent Pollutants in the Environment. IV. Identification, Integrated Assessment and Management of Risks Associated with Impacts Induced in the Environment by Persistent Pollutants, (In Romanian), Editura Politehnium, Iasi, 2009, ISBN 978-973-621-280-2, vol. IV: ISBN 978-973-621-284-0.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Suport curs la disciplina ***Microbiologia mediului*** – (IPMI, II), format electronic, MSTeams, (2024-2025)
2. Suport curs la disciplina ***Ecotoxicologie*** – (IPMI, II), format electronic, MSTeams, (2024-2025)
3. Suport curs la disciplina ***Prevenirea si controlul integrat al poluarii*** – (IPMI, IV), format electronic (2017-2024)
4. Suport curs la disciplina ***Ecological restoration and soil remediation***, EMSE, I), elaborat în limba engleza (2019-2023)
5. suport curs disciplina ***Industrial and ecological risk management***, (EMSE, II), elaborat in limba engleza (2018-2024), http://learning.tuiasi.ro/login/index.php
6. Elaborare suport pentru curs la disciplina ***Estimarea şi managementul riscului*** (MM, MTVD, II), format electronic (2023-2025)

7. Elaborare suport pentru proiect la disciplina ***Estimarea și managementul riscului*** (MM, MTVD, II), format electronic (2021-2024)

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI

1. Cozma, P.; **Camelia Betianu**, Hlihor, R.-M.; Simion, I.M.; Gavrilescu M., Bio-Recovery of Metals through Biomining within Circularity-Based Solutions. Processes, 2024, 12, 1793. https://doi.org/10.3390/pr12091793.
2. Mihaela Rosca, Petronela Cozma, Mariana Minut, Raluca-Maria Hlihor, **Camelia Bețianu**, Mariana Diaconu, Maria Gavrilescu, New Evidence of Model Crop Brassica napus L. in Soil Clean-Up: Comparison of Tolerance and Accumulation of Lead and Cadmium, *Plants*, 2021, 10(10), 2051; https://doi.org/10.3390/plants10102051.
3. **Camelia Smaranda (Betianu**), Petronela Cozma, Mihaela Rosca, Elena-Diana Comănită Ungureanu, Ioan Mămăligă, Maria Gavrilescu, Sorption of Organic Pollutants onto Soils: Surface Diffusion Mechanism of Congo Red Azo Dye, *Processes*, 2020, 8(12), 1639; doi.org/10.3390/pr8121639.
4. Petronela Cozma, **Camelia Smaranda**, Elena-Diana Comăniță, Mihaela Roșca, Cristina Ghinea, Teofil Câmpean, Maria Gavrilescu, Knowledge Transfer in University-Industry Research Collaboration for Extending Life Cycle of Materials in the Context of Circular Economy, *Environmental Engineering and Management Journal*, 19 (11), 2097-2112, 2020.
5. **Smaranda Camelia,** Popescu Maria, Bulgariu Dumitru, Malutan Teodor, Gavrilescu Maria, Adsorption of organic pollutants onto a Romanian soil: Column dynamics and transport, *Process Safety and Environmental Protection*, 108, 108-120, 2017.
6. Diana Comaniţă, Cristina Ghinea, Raluca Hlihor, Isabela Simion, **Smaranda Camelia**, Lidia Favier, Mihaela Roşca, Irina Gostin, Maria Gavrilescu, Challenges and Oportunities in Green Plastics: An Assessment using the ELECTRE Decision-Aid Method, *Environmental Engineering and Management Journal*, 14 (3), 689-702, 2015.
7. Laura Carmen Apostol, **Smaranda Camelia**, Mariana Diaconu, Maria Gavrilescu, Preliminary ecotoxicological evaluation of Erythrosin B and its photocatalytic degradation products, *Environmental Engineering and Management Journal*, 14(2), 465-471, 2015.
8. **Smaranda Camelia**, Gavrilescu Maria, Bulgariu Dumitru, Studies on Sorption of Congo Red from Aqueous Solution onto Soil, *International Journal of Environmental Research*, 5, 177-188, 2011.
9. Caliman Florentina Anca, Brindusa Mihaela Robu, **Smaranda Camelia**, Vasile Lucian Pavel, Maria Gavrilescu, Soil and groundwater cleanup: benefits and limits of emerging technologies, *Clean Technologies and Environmental Policy*, 13 (2), 241–268, 2011.
10. **Smaranda Camelia**, Bulgariu Dumitru, Gavrilescu Maria, Equilibrium and kinetic studies on acid dye sorption onto soils from Iasi area, *Environmental Engineering and Management Journal*, 9(1), 57-66, 2010.

11. **Smaranda Camelia**, Bulgariu Dumitru, Maria Gavrilescu, An investigation of the sorption of Acid Orange 7 from aqueous solution onto soil, *Environmental Engineering and Management Journal*, 8(6), 1391-1402, 2009.
12. Raluca Maria Hlihor, Laura Carmen Apostol, **Smaranda Camelia**, Lucian Vasile Pavel, Florentina Anca Căliman, Brînduşa Mihaela Robu, Maria Gavrilescu, Bioavailability processes for contaminants in soils and their use in risk assessment, *Environmental Engineering and Management Journal*, 8(5), 1199-1206, 2009.
13. **Beţianu Camelia**, Caliman A.F., Gavrilescu M., Cretescu I., Cojocaru C., Poulios I., Response surface methodology applied for Orange II photocatalytic degradation in TiO_2 aqueous suspensions, *Journal of Chemical Technology & Biotechnology*, 83(11), 1454-1465, 2008.
14. Căliman F. A., Curteanu S., **Smaranda Camelia**, Gavrilescu M., Poulios I., Neural networks and genetic algorithms optimization of the photocatalytic degradation of Alcian Blue 8GX, *Journal of Advanced Oxidation Technologies*, 11, 316-326, 2008.
15. **Beţianu Camelia**, Maria Gavrilescu, Migration and fate of persistent organic pollutants in the atmosphere – a modelling approach, *Environmental Engineering and Management Journal*, 7(6), 743-762, 2008.
16. Brînduşa Mihaela Robu, Florentina Anca Căliman, **Camelia Beţianu**, Maria Gavrilescu, Methods and procedures for environmental risk assessment, *Environmental Engineering and Management Journal*, 6(6), 573-592, 2007.
17. Anca Florentina Căliman, **Camelia Beţianu**, Brînduşa Mihaela Robu, Maria Gavrilescu, Ioannis Poulios, Study concerning the influence of oxidizing agents on heterogeneous photocatalytic degradation of persistent organic pollutants, *Environmental Engineering and Management Journal*, 6(6), 483-489, 2007.
18. Simona Pintilie, Loredana Brinză, **Camelia Beţianu**, Lucian Vasile Pavel, Florina Ungureanu, Maria Gavrilescu, Modelling and simulation of heavy metals transport in water and sediments, *Environmental Engineering and Management Journal*, 6(2), 153-161, 2007.

- Articole publicate în volume indexate ISI Proceedings

19. Ionela Catalina Vasilachi, Mariana Minut, **Camelia Betianu**, Maria Gavrilescu, Investigation of the Toxic Effects of Lead on Maize Germination and Growth (*Zea mays*), *IEEE Xplore Publisher*, DOI: 10.1109/EHB52898.2021.9657573, 2021.
20. Elena-Diana Ungureanu-Comanita, Simona Olteanu, Ersilia Lazar Cosbuc, **Camelia Smaranda**, Maria Gavrilescu, Environmental Pressures Generated by Bakery Waste for Sustainable Management, *IEEE Xplore Publisher*, DOI:10.1109/EHB52898.2021.9657621, 2021.
21. **Camelia Smaranda**, Mihaela Rosca, Mariana Minut, Diana Elena Comanita-Ungureanu, Petronela Cozma, Cezar Catrinescu, Maria Gavrilescu, Studies on Physiological Response of Sinapis alba Plants to Organochlorinated Pesticide Toxicity, *IEEE Xplore Publisher*, DOI: 10.1109/EHB50910.2020.9280260, 2020.

22. **Camelia Smaranda**, Mihaela Rosca, Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Diana Elena Comanita-Ungureanu, Petronela Cozma, Maria Gavrilescu, Equilibrium Studies on the Sorption of

Organochlorine Pesticide in Aricultural Soil, *IEEE Xplore Publisher*, DOI: 10.1109/EHB50910.2020.9280210, 2020.

23. Mariana Diaconu, Mihaela Roșca, Petronela Cozma, Mariana Minuț, **Camelia Smaranda**, Raluca-Maria Hlihor, Maria Gavrilescu, Toxicity and Microbial Bioremediation of Chromium Contaminated Effluents, *IEEE Xplore Publisher*, DOI: 10.1109/EHB50910.2020.9280160, 2020.
24. Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, Petronela Cozma, **Camelia Smaranda**, Maria Gavrilescu, Human Risks Generated by the Bioaccumulation of Pollutants in Cereals and their Consumption, *IEEE Xplore Publisher*, DOI: 10.1109/EHB50910.2020.9280208, 2020.
25. Petronela Cozma, Nicoleta Ioana Ciomaga, Raluca-Maria Hlihor, Mihaela Roșca, Mariana Minuț, **Camelia Smaranda**, Maria Gavrilescu, Identification and Valorization of Agri-Food By-Products: An Overview, *IEEE Xplore* Publisher, DOI: 10.1109/EHB50910.2020.9280290, 2020.
26. Elena-Diana Ungureanu-Comanita, Ersilia Lazar Cosbuc, Petronela Cozma, **Camelia Smaranda**, Maria Gavrilescu, Human health risks concerning food waste management, *IEEE Xplore* Publisher, DOI: 10.1109/EHB50910.2020.9280256, 2020.
27. Ionela-Cătălina Vasilachi, Larsia Tapciuc, Gina-Mihaela Finaru Chelaru, Dana-Mihaela Asiminicesei, Mihaela Rşca, Petronela Cozma, Elena-Diana Comănţă-Ungureanu, **Camelia Smaranda,** Raluca-Maria Hlihor, Daniela-Ionela Ferţu, Maria Gavrilescu, Pesticides in the Environment and Harmonized Risk Indicators, *IEEE Xplore* Publisher, 10.1109/EHB50910.2020.9280252, 2020.
28. Mihaela Roșca, Petronela Cozma, Mariana Minuț, Dana Mihaela Asiminicesei, **Camelia Smaranda**, Mariana Diaconu, Maria Gavrilescu, Ecological Risk Assessment of Nickel in Soil and the Effects on the *Brassica napus* Growth, *IEEE IEEE Xplore* Publisher, DOI: 10.1109/EHB47216.2019.8970022, 2019.
29. **Camelia Smaranda**, Laura Bulgariu, Mihaela Rosca, Remus Turculet, Cristina Ghinea, Maria Gavrilescu, Evaluation of pentachlorophenol leaching potential in natural soils, *The Proceedings of International Conference on E-Health and Bioengineering - EHB 2015*, 2015.
30. Gabriela Nacu, Lăcrămioara Negrilă, Mihaela Roşca, **Camelia Smaranda**, Laura Bulgariu, Maria Gavrilescu, Efficient removal of Pb(II)ions from accidental polluted waters by adsorption onto thermal activated lignin, *The Proceeding of International Conference on E-Health and Bioengineering - EHB 2015,* 2015.

- Articole indexate în baze de date internaţionale

31. Cristina Ghinea, Mihaela Rosca, Petronela Cozma, Elena-Diana Comănită Ungureanu, Mariana Minuț, **Camelia Smaranda**, Mariana Diaconu, Maria Gavrilescu, Statistical analysis of some heavy metals toxicity on plants used in phytoremediation, *Annals of the Academy of Romanian Scientists Series on Physics and Chemistry Sciences*, Vol. 14, Nr. 1, 53-68, 2019.

32. **Camelia Smaranda**, Comăniţă Elena-Diana, Apostol Laura Carmen, Gavrilescu Maria, Kinetic studies on the biosorption of Acid Orange 7 onto

waste biomass of Phaseolus vulgaris L.*, Annals of the Academy of Romanian Scientists Series on Physics and Chemistry*, Vol. 1, Nr. 1, 68-97, 2016.

33. Comaniţă Elena-Diana, Ghinea Cristina, Roşca Mihaela, **Smaranda Camelia**, Favier Lidia, Gostin Irina, Iordache Ştefănia, Gavrilescu Maria, Impactul privind schimbările climatice generate de producţia policlorurii de vinil (PVC) și a polihidroxialcanoaților (PHAS): O abordare comparativă, *Lucrări Ştiinţifice, Seria Horticultură*, 58, 253 – 260, 2015.
34. **Camelia Smaranda**, Comăniţă Elena-Diana, Apostol Laura Carmen, Gavrilescu Maria, Assessment of Phaseolus Vulgaris L. Biomass as Low-Cost Adsorbent for the Removal of Congo Red Dye from Aqueous Solutions, *Analele USAMV, seria Agronomie,* vol. 57, Publishing House „Ion Ionescu de la Brad", Iaşi, 2014, ISSN 1454-7414.
35. **Camelia Smaranda**, Bulgariu Dumitru, Măluţan Teodor, Gavrilescu Maria, The Evaluation of Factors Affecting Sorption of Pentachlorophenol in Soil, *Analele USAMV, seria Agronomie,* vol. 57, Publishing House „Ion Ionescu de la Brad", Iaşi, 2014, ISSN 1454-7414.
36. Diaconu Mariana, **Camelia Smaranda**, Hlihor Raluca Maria, Gavrilescu Maria, Biomass in Environmental Remediation – A Review, *Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering,*Tomul LIX (LXIII), Fasc.3, 97-112, 2013.
37. **Smaranda Camelia**, Laura Carmen Apostol, Maria Gavrilescu, Evaluation of the sorption process for Acid orange 7 and Erythrosine B in soil using various kinetic models, *Buletinul Institutului Politehnic din Iaşi, Chimie şi Inginerie Chimică,* Tomul LVII (LXI), Fasc.1, 65-78, 2011.
38. **Smaranda Camelia,** Laura Carmen Apostol, Mădălina Petraru, Florentina Anca Căliman, Maria Gavrilescu, Comparative studies concerning the behaviour of organic pollutants in Iasi area soil, *Analele USAMV*, vol. 53, No.2, *seria Agronomie*, Publishing House „Ion Ionescu de la Brad", Iaşi, 2010.
39. **Smaranda Camelia**, Maria Gavrilescu, Dumitru Bulgariu, Sorption and desorption characteristics of Acid Orange 7 on soil, *Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering,* Tom. LV (LX), Fasc.2, 183-191, 2010.
40. Hlihor Raluca Maria, Apostol Laura Carmen, Pavel Vasile Lucian, **Smaranda Camelia**, Robu Brînduşa Mihaela, Căliman Florentina Anca, Gavrilescu Maria, Overview on Chromium occurrence in the environment and its remediation, *Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering*, Tomul LV (LIX), Fasc.2, 67-83, 2009.
41. Apostol Laura Carmen, Hlihor Raluca Maria, **Smaranda Camelia**, Pavel Vasile Lucian, Robu Brînduşa Mihaela, Căliman Florentina Anca, Gavrilescu Maria, Life cycle impact assessment of pesticides: current issues and perspectives, *Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering,* 55(2), 67-83, 2009.
42. **Camelia Smaranda**, Apostol Laura Carmen, Căliman Florentina Anca, Gavrilescu Maria, Chlorophenols degradation – an overview, *Bulletin of the Polytechnic Institute of Iasi*, *Chemistry and Chemical Engineering Section,* 54(2), 37-48, 2008.

43. **Camelia Beţianu**, Roxana Mai, Florina Ungureanu, Maria Gavrilescu, Simulation of transport and behaviour of some persistent organic pollutants in soil, *Annals of the University of Agricultural Sciences and Veterinary Medicine*

„Ion Ionescu de la Brad" Iaşi, Lucrări Ştiinţifice – vol. 50, seria Agronomie, ISSN 1454-7414, 2007.

44. **Camelia Beţianu**, Loredana Brinza, Lucian Vasile Pavel, Maria Gavrilescu, Partition and sorption of heavy metals to soil, *Annals of the University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad*" Iaşi, *Lucrări Ştiinţifice* – vol. 50, *seria Agronomie*, ISSN 1454-7414, 2007.
45. M. Gavrilescu (coord), M. Macoveanu, C. Teodosiu, B. Robu, **C. Betianu**, G. Barjoveanu, L. Pavel, Identificarea si analiza strategiilor si tehnologiilor pentru prevenirea poluarii si productie mai curata, ca instrumente ale dezvoltarii durabile, in sistemele de productie si servicii – raport de cercetare, *Revista de Politica Stiintei si Scientometrie*, numar special 2006 ISSN 1582-1218, 2006.
46. **Camelia Beţianu**, Maria Gavrilescu, Persistent organic pollutants in environment: Inventory procedures and management in the context of the Stockholm Convention, *Environmental Engineering and Management Journal*, 5(5), 1011-1028, 2006.
47. **Camelia Beţianu**, Maria Gavrilescu, Environmental behaviour and assessment of persistent organic pollutants, *Environmental Engineering and Management Journal*, 5(2), 213-241, 2006.
48. **Camelia Beţianu**, Maria Gavrilescu, Wastewater planning and management in small communities, *Environmental Engineering and Management Journal*, 3(4), 845-860, 2004.

G. Lucrări ştiinţifice publicate în reviste din străinătate.
H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **Smaranda Camelia**, Puiţel Adrian, Măluţan Theodor, Gavrilescu Maria, *The environmental behavior of pentachlorophenol in Iasi area soil,* The 14th International Symposium on Cellulose Chemistry and Technology, Iaşi, 8-10 September 2010, ISBN 978-973-621-306-9.
2. Gavrilescu Maria, Căliman Florentina Anca, Robu Brindusa Mihaela, **Smaranda Camelia**, Pavel Vavel Lucian, Hlihor Raluca Maria, Apostol Laura Carmen, *Behaviour of persistent pollutants and risks associated with their presence in the environment, Expoziţia realizărilor cercetării româneşti – SALONUL CERCETĂRII – 2009,* 28 – 31 Octomber 2009, Târgul Tehnic Internaţional Bucureşti, Complexul Expoziţional ROMEXPO.
3. Gavrilescu Maria, Căliman Florentina Anca, Robu Brindusa Mihaela, **Smaranda Camelia**, Pavel Vavel Lucian, *Potential benefits and threats of emerging technologies for soil and groundwater cleanup, A XIII-a Conferinţă Internaţională de Inventică „Cercetări şi Tehnologii Inovative Performante",* pp. 537-555, Editura Performantica, Iaşi, ISBN 978-973-730-610-4, 2008.
4. **Smaranda Camelia**, Laura Carmen Apostol, Lucian Vasile Pavel, Florentina Anca Căliman, Maria Gavrilescu, Study concerning the sorption of textile azo dye Orange II on soil particles, Innovative Materials and Processes, Proceedings of the National Conference Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21 2008, ISBN 978-973-621-255-0, pp. 461-466.
5. Laura Carmen Apostol, **Camelia Smaranda**, Florentina Anca Căliman, Igor Creţescu, Maria Gavrilescu, Study of Pentachlorophenol Sorption on a Natural

Clay as Sorbent, Innovative Materials and Processes, Proceedings of the National Conference Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21 2008, ISBN 978-973-621-255-0, pp. 255-260.

6. Lucian Vasile Pavel, Raluca Maria Hlihor, **Camelia Smaranda**, Florentina Anca Căliman, Maria Gavrilescu, Sorption Studies of Some Heavy Metals (CrVI and CdII) on Natural Soil, Innovative Materials and Processes, Proceedings of the National Conference Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21 2008, ISBN 978-973-621-255-0, pp. 249-254.
7. Maria Gavrilescu, Brindusa Robu, Florentina Anca Căliman, **Camelia Betianu**, Lucian Vasile Pavel, Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment, International Jubiliar Conference on Inventing – INVENTICA 2008, Edition XII, 12 – 24 May 2008 Iasi, pp. 689-692.

Articol/studiu publicat în rezumat în volumul unei manifestări ştiinţifice neindexate în baze de date (selectiv)

1. **Camelia Bețianu**, Adrian Puițel, Teodor Măluțan, Maria Gavrilescu, Dynamic Behavior of Persistent Organic Pollutants in Soil, *International Conference on Environmental Engineering and Management* - ICEEM13, 17th and 20th of September 2025, in Iasi, Romania.
2. Raluca-Maria Țâbuleac, Tiberiu Vlad Simion, Elena-Diana Comăniță-Ungureanu, Petronela Cozma, **Camelia Betianu**, Isabela Maria Simion, Maria Gavrilescu Green Transformation in Tourism: Eco-Innovation Adoption and Sustainability Performance Across Europe, *International Conference on Environmental Engineering and Management* - ICEEM13, 17th and 20th of September 2025, in Iasi, Romania.
3. Raluca-Maria Țâbuleac, **Camelia Bețianu**, Maria Gavrilescu, Heavy Metal Removal from Contaminated Soils by Phytoremediation, *International Conference of "Applications of Chemistry in Nanosciences and Biomaterials Engineering*, Bucharest, 28-30 June 2023.
4. **Camelia Bețianu**, I.C. Vasilachi, M. Minuț, M. Gavrilescu, The assessment of Pesticide Contamination Index in soil, *6th International Conference on Chemical Engineering, Romania*, Iași, October 05 – 07, 2022.
5. Ionela Catalina Vasilachi, Maria Paiu, **Camelia Bețianu**, M. Diaconu, Maria Gavrilescu, A study of the use of alfalfa (*Medicago sativa* L.) for the phytoremediation of soil polluted with copper, *6th International Conference on Chemical Engineering - ICCE 2022*, Romania, Iași, October 5–7, 2022.
6. Ionela Catalina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, Petronela Cozma, **Camelia Bețianu**, Maria Gavrilescu, *Investigation of chemical stress generated by lead on the growth of Zea mays L*., International Conference of "*Applications of Chemistry in Nanosciences and Biomaterials Engineering,* Bucharest, 24-25 June 2021.
7. Mihaela Roșca, Petronela Cozma, Mariana Minuț, Raluca-Maria Hlihor, **Camelia Bețianu**, Mariana Diaconu, Maria Gavrilescu, *Screening of Brassica napus L. Resistance at different cadmium and lead levels in soil,* The 16th International Conference of Constructive Design and Technological

Optimization in Machine Building Field OPROTEH 2021, Bacau, May 25-27, 2021.

8. Gina-Mihaela Fînaru (Chelaru), Petronela Cozma, **Camelia Smaranda**, Ioan Mămăligă, Maria Gavrilescu, *Ecological Risk Assessment on Heavy metals in Soils: An Overview*, International Conference of "Applications of Chemistry in Nanosciences and Biomaterials Engineering, Bucharest, 24-25 June 2021.
9. **Camelia Bețianu**, Petronela Cozma, Diana Elena Comaniță-Ungureanu, Mihaela Roșca, Mariana Minuț, Adrian Puițel, Teodor Măluța, Maria Gavrilescu, *Study On The Behavior of Organochlorine Pesticides on Soils,* 11 International Conference on Environmental Engineering and Management, ICEEM11, 8-10 September 2021, Muttenz, Switzerland.
10. Petronela Cozma, Mihaela Roșca, Mariana Minuț, **Camelia Smaranda**, Cezar Catrinescu, Maria Gavrilescu, *Investigating the Potential of Sinapsis alba L. (White mustard) to Clean-Up Lindane Polluted Soils,* 11 International Conference on Environmental Engineering and Management, ICEEM11, 8-10 September 2021, Muttenz, Switzerland.
11. Mariana Minuţ, Mihaela Roşca, Petronela Cozma, **Camelia Smaranda**, Mariana Diaconu, Maria Gavrilescu, *Behavior of Sinapis alba L. Growth in Soil Polluted with Nickel*, 11 International Conference on Environmental Engineering and Management, ICEEM11, 8-10 September 2021, Muttenz, Switzerland.
12. Elena-Diana Ungureanu-Comanita,Ersilia Cosbuc, Simona Olteanu, **Camelia Smaranda**, Maria Gavrilescu, *Comparative Analysis of Two Scenarios for Food Waste Management by Life Cycle Assessment* (LCA), 11 International Conference on Environmental Engineering and Management, ICEEM11, 8-10 September 2021, Muttenz, Switzerland.
13. Mihaela David, **Camelia Bețianu**, Petronela Cozma, Maria Gavrilescu, *Recovery of critical raw materials from waste - an overview*, Applications of Chemistry in Nanosciences and Biomaterials Engineering, Bucharest, 24-25 June 2021.
14. **Camelia Smaranda**, D.M. Asiminicesei, I.C. Vasilachi, M. Minuț, M. Roșca, D.E. Ungureanu Comaniță, P. Cozma, M. Gavrilescu, *Fixed-Bed Column Adsorption of Acid Orange 7 onto Soil,* 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a Sustainable Development, October 28-30, Iasi, Romania, 2020.
15. Mariana Minuţ, Mihaela Roşca, Petronela Cozma, **Camelia Smaranda**, Mariana Diaconu, Maria Gavrilescu, *Studies regarding the tolerance of Amaranthus retroflexus L. growing on nickel polluted soil*, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a Sustainable Development, October 28 – 30, Iasi, Romania, 2020.
16. Mihaela Roșca, Mariana Diaconu, Petronela Cozma, Raluca Maria Hlihor, **Camelia Smaranda**, Ioan Mămăligă, Irina Volf, Maria Gavrilescu, *Bioremediation of aqueous solutions polluted with Cd^{2+} ions by Bacillus megaterium in a stirred tank bioreactor*, 5th International Conference on Chemical Engineering, Innovative Materials and Processes for a Sustainable Development, October 28 – 30, Iasi, Romania, 2020.

17. **Camelia Smaranda**, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Sebastian Vasilică, Petronela Cozma, Maria Gavrilescu Effect of lindane on photosynthetic pigments in Sinapis alba leaves, 10th International Conference on Environmental Engineering and Management, September 18 – 21, 2019 Iasi, Romania.
18. Sebastian Ionuț Vasilică, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță, **Camelia Smaranda**, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilescu, Investigating the toxic effects of lindane on white mustard (*Sinapis alba*), 10th International Conference on Environmental Engineering and Management, September 18 – 21, 2019 Iasi, Romania.
19. Mariana Minuț, Mihaela Roșca, Petronela Cozma, **Camelia Smaranda**, Cezar Catrinescu, Mariana Diaconu, Maria Gavrilescu, The behavior of plants in the presence of organic UV filters, Conferinţa Şcolii Doctorale – TUIASI, 22-23 Mai, 2019, Iaşi, România.
20. **Camelia Smaranda**, Mihaela Rosca, Petronela Cozma, Elena-Diana Comanita, Maria Gavrilescu, *Equilibrium study of pentachlorophenol sorption in soil matrix*, The International Conference "Achievements and Perspectives of Modern Chemistry" October 9-11, 2019, Chisinau, Republic of Moldova.
21. **Camelia Smaranda**, Teofil Câmpean, Cristina Ghinea, Petronela Cozma, Teodor Măluțan, Igor Crețescu, Adrian Cătălin Puițel, Elena-Diana Comăniță, Isabela Maria Simion, Raluca-Maria Hlihor, Dan-Alexandru Gavrilescu, *Sustainable development appraisal for industrial systems toward circular economy: case study of corrugated board and packaging manufacturing, 9th International Conference on Environmental Engineering and Management*, Bologna, Italia, 6 – 9 septembrie 2017.
22. **Camelia Smaranda**, Petronela Cozma, Ioan Mămăligă, Adrian Catalin Puitel, Teodor Malutan, Maria Gavrilescu, *Studies on organic pollutants transport and diffusion in various environmental compartments, 9th International Conference on Environmental Engineering and Management*, Bologna, Italia, 6 - 9 septembrie 2017.

J. Invenţii.

1. Brevet nr. 133715, ***Procedeu de obținere a unor materiale de tip compozit destinate realizării elementelor constructive și funcționale ale europaleților***, Gavrilescu M., Cretescu I., Malutan T., **Smaranda C.,** Puitel A., Cozma P., Hlihor R., Ghinea C., Simion I., Comanita D., Rosca M., 2024.

K. Contracte de cercetare.

Proiecte de cercetare pe bază de granturi internaționale (4)

1. Membru substituit în cadrul proiectului ACȚIUNEA COST**:** *"Cross-Border Transfer and Development of Sustainable Resource Recovery Strategies Towards Zero Waste"* (FULLRECO4US), Coordonator: CA20133, Start date - https://www.cost.eu/actions/CA20133/.

2. Membru în cadrul proiectului ACȚIUNEA COST**:** - *European Network for Multiple View Life Cycle Sustainability Assessment (MultiViewLCSA),* CA23157, - https://www.cost.eu/actions/CA23157/#tabs+Name:Description.
3. Grant (B.EN.A.) – COSMOTE/2007 - Some effects of high-frequency electromagnetic radiations used in radio communication on the cultivated plants growing, Beneficiar: COSMOTE Grecia, prin B.EN.A. International. Director de proiect: Conf. dr. ing. Igor Creţescu. valoare 1000 euro, membru echipa cercetare.
4. Grant (B.EN.A.) – COSMOTE/2007 - Monitoring of electromagnetic radiation nearby the antenna for transmitting of TV national programs, in Iasi county, Beneficiar: COSMOTE Grecia, prin B.EN.A. International., valoare 400 euro. Responsabil: drd. biol. Camelia Beţianu, Indrumator stiintific: Conf. dr. ing. Igor Creţescu.

Proiecte de cercetare pe bază de granturi naționale (10)

5. **Proiect PN-III-P4-ID-PCE-2016-0683,** *Explorarea și Exploatarea Abilităților Microbiene și Plantelor și Interacțiunile în Bioremedierea Mediului (BIOREMIP),* Contract 65/12.07.2017, 2017-2019. Director de proiect: Prof. dr. ing. Maria Gavrilescu.
6. **Proiect PN-III-P2-2.1-BG-2016-0130,** *Strategii și soluții pentru eco-proiectarea și eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare (ECOINDE)***,** Contract 64BG/2016, 2016-2018. Director de proiect: Prof. dr. ing. Maria Gavrilescu.
7. **PN-II-ID-PCE-2011-3-0559,** *Biosorbtia şi bioacumularea în bioremedierea componentelor de mediu contaminate cu poluanţi persistenţi (BIOSACC),* 2012-2014*,* contract nr. 265/05.10.2011. Director de proiect: Prof. dr. ing. Maria Gavrilescu*.*
8. **Programme IDEI, grant ID_595**, *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment*, contract 132/01.10.2007, 2007-2010. Director de proiect: Prof. dr. ing. Maria Gavrilescu.
9. **POS DRU Project, contract: 57/1.3/S/17884**, *The specialization of teaching staff for occupation - Supervisor of technological practice and research*, 2010-2012, Project coordinator: “Gh. Asachi” Technical University of Iasi, Director: Prof.dr.eng. Mircea Guşă.
10. **EXCELENCE GRANT, Module I, Cod MEC: PC-D06-PT25-153,** contract 62/03.10.2005, *Technologies for advanced treatment of industrial effluents for recycling - RIWA-TECH*, 2005-2008, Director: Prof.dr.eng. Carmen Teodosiu
11. **Grant CNCSIS A, cod CNCSIS 1351/2007,** *The fundamental of an methodological model of preliminary analysis for environmental management systems design and implementation and eco-audit in Romanian companies*, Director: Assoc. Prof.dr. Marilena Mironiuc.
12. **Grant CNCSIS A, Contract A1/GR 164/19.05.2006,** Cod 511, theme 36, *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*, 2004-2006, Director: Prof.dr.eng. Maria Gavrilescu.
13. **Grant CNCSIS A, Contract 63 GR/19.05.2006,** cod CNCSIS 288, theme 17, *Eco-design of processes, products and services in connexion with*

environmental components, in the context of sustainable development, 2003-2005, Director: prof. Matei Macoveanu.

14. **Grant CNCSIS A, Contract 33371/2004,** Cod 774, theme 63 si theme 23, *Environmental bioremediation applying processes from chemical engineering and biotechnology*, 2003-2005, Director: Prof. dr. eng. Matei Macoveanu.

L. Premii, distincţii.

1. *Diploma of Gold medal la EUROINVENT Book Salon* pentru lucrarea *Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului*, Editura Performantica, Iasi, iunie, 2022.
2. *Premiul Best Paper* pentru lucrarea "*Investigation of chemical stress generated by lead on the growth and physiology of Zea mays L*.". Vasilachi I.C, Asiminicesei D.M., Minuț M., Roșca M., Cozma P., **Bețianu C.**, Gavrilescu M., International Scientific Conference „Applications of Chemistry in Nanosciences and Biomaterials Engineering", București, 25-26 iunie 2021.
3. *Diplomă de Excelență* pentru lucrarea: *Procedeu de obținere a unor materiale de tip compozit destinate realizării elementelor constructive și funcționale ale europaleților*, Gavrilescu M., Cretescu I., Malutan T., **Smaranda C.**, Puitel A.C., Cozma P., Hlihor R. M., Simion I. M., Rosca M., Salonul Inventica, Ediția a XII-a, Baia Mare, 2018.
4. *Diploma si medalia de aur* pentru lucrarea: *Procedeu de obținere a unor materiale de tip compozit destinate realizării elementelor constructive și funcționale ale europaleților*, Gavrilescu M., Cretescu I., Malutan T., **Smaranda C.**, Puitel A., Cozma P., Hlihor R., Ghinea C., Simion I., Comanita D., Rosca M., XIV International Salon of Inventions and New Technologies «New Time», Sevastopol, Russian Federation, 27-29 septembrie, 2018.
5. *Diploma of Gold Medal la EuroInvent Book Salon* (2018), EuroInvent 10th Edition 2018, pentru cartea la care sunt co-autor: *Biosorption and Bioaccumulation - Principles and Applications in Environmental Bioremediation*, ISBN: 978- 973-621- 457-8, Mai 2018, Palace of Culture, Iasi.
6. Diploma acordată pentru Environmental Engineering and Management Journal, Euroinvent 2016 - INVENT-INVEST, Iasi (2016).
7. Diploma de Excelenţă acordată pentru Environmental Engineering and Management Journal, Euroinvent 2013 - European Exhibition of Creativity and Innovation (2013).
8. Marele premiu acordat pentru Environmental Engineering and Management Journal, Euroinvent 2012 - European Exhibition of Creativity and Innovation (2012).
9. Premiul „***Best paper award 2012***", acordat de ***Editura Springer*** pentru lucrarea *Soil and Groundwater Cleanup: Benefits and Limits of Emerging Technologies*, Florentina Anca Caliman, Brindusa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,Maria Gavrilescu, Clean Techn. Environ. Policy, 13:241–268, (2011).
10. *Diploma de Excelenţă şi Medalia de aur*, obţinută la Expoziţia Europeană a creativităţii şi Inovării - EUROINVENT Iasi 7-9 mai 2010, pentru lucrarea *Progress in assessment of ecological and health risk induced by persistent organic pollutants*.

11. Diploma de Excelenţa şi Medalia Inventica 2008, acordată de Societatea Inventatorilor din România şi Institutul Naţional de Inventica Iaşi pentru lucrarea *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment*, Iasi, 2008.

M. Alte realizări semnificative.

•*Membru în Editorial Board* în International Digital Library (2017), Agronomy (2024) https://www.mdpi.com/journal/agronomy/editors?page_no=23

•*Referent ştiinţific* pentru jurnalele: Sustainability, Environments, Land, Plants, Toxics, Molecules, Environmental Science and Pollution Research, Agriculture, Environment and Ecology Research, Advances in Environmental and Engineering Research, Environmental Engineering and Management Journal, Desalinization and Water Treatment, Agronomy, Applied Sciences, 1 book proposal – Eslevier.

Data: **Semnătura:**

10.10.2026 Ș.l. dr. biol. **Camelia BEŢIANU**

Lista de lucrări în domeniul de studii universitare

Șef lucrări. dr. ing. Cătălin Dumitrel Balan

A. Teza de doctorat.

Titlul tezei: ,,Contribuţii privind epurarea apelor cu ioni de metale grele Cr şi Cd folosind sorbenţi naturali”

Instituție: Universitatea Tehnică Gheorghe Asachi din Iaşi

Facultatea de Inginerie Chimică şi Protecţia Mediului „Cristofor Simionescu”

Perioada: 2005-2008

Coordonator: : prof. univ. dr. Matei Macoveanu

Titlul tezei: „ Contributii privind epurarea apelor cu ioni de metale grele Cr si Cd folosind sorbenți naturali”, 2008

Titlul: DOCTOR in Inginerie Chimica, diploma nr. 0011512/14.08.2009, Ordinul ministrului nr. 4698 din 14.8.2009

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Irina VOLF, **Catalin BALAN** - Lucrari practice si apliocatii de biotehnologie si bioremediere, Ed. Performantica, Iasi, ISBN978 606-685-479-5,203pg., 2016
2. Marcoie, N., Toma, D., Hrăniciuc, T.-A., Boboc, V., **Balan, C.-D**., Tofănică, B.-M. (2026). Managementul integrat al circuitului apei în zonele construite. Sinteze, modelări fizice și numerice, soluții pentru reziliența orașelor. Editura Universității Tehnice „Gheorghe Asachi” din Iași.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articole publicate în reviste cotate ISI

2025

1. Marcoie N., Chihaia Ș., Barta A.I., Toma D., Boboc V., Balan M.G., Balan C.D., Half a Century of Civil Engineering in the Bahlui River Hydrographic System: The Unexpected Journey from Gray Structures to Hybrid Resilience, Hydrology, 13(1), 15, 2025.
2. Marcoie N., Toma I.O., Chihaia Ș., Hrăniciuc T.A., Toma D., Balan C.D., Anthropogenic River Segmentation Case Study: Bahlui River from Romania, Hydrology, 12(9), 224, 2025.

3. Puițel A.C., Bârjoveanu G., Balan C.D., Nechita M.T.,
   Medicago sativa Stems—A Multi-Output Integrated Biorefinery Approach,
   Polymers, 17(12), 1709, 2025.
4. Puițel A.C., Balan C.D., Nechita M.T.,
   Corn Stalks-Derived Hemicellulosic Polysaccharides: Extraction and Purification,
   Polymers, 6(2), 2025.

2024

5. Puițel A.C., Bălușescu G., Balan C.D., Nechita M.T.,
   The Potential Valorization of Corn Stalks by Alkaline Sequential Fractionation to Obtain Papermaking Fibers, Hemicelluloses, and Lignin—A Comprehensive Mass Balance Approach,
   Polymers, 16(11), 1542, 2024.
6. Marcoie N., Chihaia Ș., Hrăniciuc T.A., Balan C.D., Drăgoi E.N., Nechita M.T.,
   Linking Nutrient Dynamics with Urbanization Degree and Flood Control Reservoirs on the Bahlui River,
   Water, 16(10), 1322, 2024.

2023

7. Puițel A.C., Balan C.D., Ailiesei G.L., Drăgoi E.N., Nechita M.T.,
   Integrated Hemicellulose Extraction and Papermaking Fiber Production from Agro-Waste Biomass,
   Polymers, 15(23), 4597, 2023.
8. Bodoga A., Nistorac A., Dragomir A., Ailenei E.C., Seul A., Diaconu M., Balan C.D.,
   Ozone–Vacuum-Based Decontamination: Balancing Environmental Responsibility and Textile Waste,
   Sustainability, 15(22), 16068, 2023.
9. Diaconu M., Soreanu G., Balan C.D., Buciscanu I.I., Maier V., Cretescu I.,
   Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation,
   Water, 15(22), 3962, 2023.
10. Puițel A.C., Suditu G.D., Drăgoi E.N., Danu M., Ailiesei G.L., Balan C.D.,
    Optimization of Alkaline Extraction of Xylan-Based Hemicelluloses from Wheat Straws: Effects of Microwave, Ultrasound, and Freeze–Thaw Cycles,
    Polymers, 15(4), 1038, 2023.

2021

11. Hrăniciuc T.A., Marcoie N., Balan C.D.,
    Determination of the Flood Defense Embankment Elevation Crown, Using Advanced Hydrodynamic Modeling,
    Environmental Engineering and Management Journal, 20(3), 467–478, 2021.

2020

12. Zotica T.A., Chirilă S.D., Balan C.D., Volf I.,
    Physical and chemical characterization and floristic peculiarities of a soil affected by anthropic activities,
    Environmental Engineering and Management Journal, 19(2), 219–227, 2020.

13. Istrate C., Robu I.B., Herghiligiu I.V., Balan C.D.,
Inventory mission at the half of the 17th century,
European Journal of Science and Theology, 16(1), 11–21, 2020.

2019

14. Herghiligiu I.V., Robu I.B., Pislaru M., Vilcu A., Asandului A.L., Avasilcăi S., Balan C.D.,
Sustainable environmental management system integration and business performance: A balance assessment approach using fuzzy logic,
Sustainability, 11(19), 5311, 2019.

2018

15. Ungureanu G., Balan C.D., Volf I.,
Application of sphagnum moss peat in ecological remediation of oxyanions contaminated aqueous solutions,
Environmental Engineering and Management Journal, 17(4), 915–923, 2018.

2017

16. Balan C.D., Robu B., Bulai P., Bilba D.,
Modeling equilibrium data for the Cd(II) sorption by peat using non-regression analysis,
Environmental Engineering and Management Journal, 17(3), 2017.
17. Slușer B.M., Șchiopu A.M., Balan C.D., Pruteanu M.,
Postclosure influence of emissions resulted from municipal waste dump sites: A case study of the north-east region of Romania,
Environmental Engineering and Management Journal, 16(4), 1017–1026, 2017.

2013

18. Bulgariu L., Balan C.D., Bulgariu D., Macoveanu M.,
Valorisation of Romanian peat for the removal of some heavy metals from aqueous media,
Desalination and Water Treatment, 52(31–33), 2013.
19. **Balan C.D**., Volf I., Bilba D.,
Chromium (VI) removal from aqueous solutions by Purolite base anion-exchange resins with gel structure,
Chemical Industry & Chemical Engineering Quarterly, 20, 2013.

2012

20. **Balan C.D.,** Volf I., Bulai P., Bilba D., Macoveanu M.,
Removal of Cr(VI) from aqueous environment using peat moss: equilibrium study,
Environmental Engineering and Management Journal, 11(1), 21–28, 2012.

2010

21. **Balan C.D.,** Bulai P., Bilba D., Macoveanu M.,
Sphagnum moss peat: A green and economical sorbent for removal of heavy metals (Cd and Cr) from wastewaters,
Environmental Engineering and Management Journal, 9(4), 469–477, 2010.

2009

22. **Balan C**.D., Bilba D., Macoveanu M.,
Studies on chromium(III) removal from aqueous solutions by sorption on Sphagnum

moss peat,
Journal of the Serbian Chemical Society, 74(8–9), 953–960, 2009.

23. Bulai P., Balan C.D., Cojocaru C., Macoveanu M.,
Optimization of process variables to maximize loading capacity of Purolite S930,
Environmental Engineering and Management Journal, 8(6), 1413–1419, 2009.
24. Cojocăreanu Pata I., Balan C.D., Pata S., Macoveanu M.,
Passive biomonitoring of atmospheric pollution with heavy metals using native epigeic moss,
Environmental Engineering and Management Journal, 8(5), 1281–1286, 2009.
25. **Balan C.D**., Bilba D., Macoveanu M.,
Sphagnum moss peat as a potential sorbent and reductant for chromium (VI) removal from aqueous solutions,
Cellulose Chemistry and Technology, 43(1–3), 99–104, 2009.
26. Bulai P., Balan C.D., Scripcaru C., Macoveanu M.,
Equilibrium and kinetic studies of copper(II) removal on Purolite S930 resin,
Environmental Engineering and Management Journal, 8(5), 1103–1109, 2009.

2008

27. **Balan C.D**., Bilba D., Macoveanu M.,
Removal of cadmium (II) from aqueous solutions by Sphagnum moss peat: equilibrium study,
Environmental Engineering and Management Journal, 7(1), 17–23, 2008.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1.C Corduneanu, **C Balan**, C Vasiliţa, OA Popovici, “The noctuid moth Xylomoia graminea (Lepidoptera: Noctuidae) new to the Romanian fauna“, Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa” 63, 255, **2020**

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

2025

1. Suditu G.D., Marcoie N., Drăgoi E.N., Balan C.D., Danu M., Nechita M.-T.
Modelling Total Nitrogen from Wastewaters Using Deep Neural Networks,
P35, International Hybrid Conference „Water Resources and Wetlands”, Tulcea, România, 2025.
2. Marcoie N., Nechita M.-T., Suditu G.D., Danu M., Toma D., Balan C.D.
Smart City and Sponge City – Converging Solutions for Sustainable Stormwater Management in University Campuses,
P36, International Hybrid Conference „Water Resources and Wetlands”, Tulcea, România, 2025.
3. Puițel A.C., Bârjoveanu G., Balan C.-D., Nechita M.T., Bulgariu L.
Lucerne (Medicago sativa) – A Promising Candidate for Multiple Output Biorefinery,
CO.4.2, 13th International Conference on Environmental Engineering and Management – *Empower Sustainability*,
Iași, România, 17–20 septembrie 2025.

4. Marcoie N., Nechita M.T., Balan M., Toma D., Balan C.D.
   Designing a Sustainable Rainwater Management System for the "Tudor Vladimirescu" Campus, Iași:
   A Smart City–Smart Campus Approach,
   13th International Conference on Environmental Engineering and Management – *Empower Sustainability*,
   Iași, România, 17–20 septembrie 2025.
5. Hancu A., Tănasa I., Botan D., Balan C., Slușer B.
   Statistical Analysis and Impact Assessment of Car Fleet Pollution: Case Study of Iași City, Romania,
   13th International Conference on Environmental Engineering and Management – *Empower Sustainability*,
   Iași, România, 17–20 septembrie 2025.

2023

3. Danu M., Puițel A.C., Balan C.D., Drăgoi E.N., Suditu G.D., Nechita M.-T.
   Characterization of Microplastic Particles in Water Samples from Natural Receptors Using Thermal Analysis (TGA-DSC),
   International Hybrid Conference „Water Resources and Wetlands", Tulcea, România, 2023.
4. Drăgoi E.N., Suditu G.D., Puițel A.C., Balan C.D., Danu M., Nechita M.-T.
   Optimization of Water Decolorization Processes,
   International Hybrid Conference „Water Resources and Wetlands", Tulcea, România, 2023.
5. Puițel A.C., Calugăreanu D., Balan C.D., Nechita M.-T., Gavrilescu D.
   Comparative Evaluation of Romanian Agricultural Residues and Agro-Industrial Secondary Products as Feedstocks for Biorefinery,
   PO.3.7, 12th International Conference on Environmental Engineering and Management (ICEEM 12), 2023.
6. Marcoie N.*, Toma D., Boboc V., Hrăniciuc T.A., Balan C.D.
   Flood Routing and Discharge Capacity of Colibița Reservoir on Bistrița Ardeleană River,
   PO.6.11, 12th International Conference on Environmental Engineering and Management (ICEEM 12), 2023.

2021

7. Suditu G.D., Puițel A.C., Balan C.D., Drăgoi E.N., Dafinescu V., Pintilie L., Nechita M.-T.
   Hybrid System Combining Chemical, Photochemical and Ultrasound Reactors for Wastewater Treatment,
   P16, International Conference „Water Resources and Wetlands", Tulcea, România, 2021.
8. Marcoie N., Toma D., Chihaia Ș., Hrăniciuc T.A., Balan C.D.
   Assessment of the Solar Radiation Availability for Aquatic Macrophytes Associations from Poeni Wetland on Glavacioc River, Romania,

P17, International Conference „Water Resources and Wetlands”, Tulcea, România, 2021.

2019

9. Marcoie N., Pavel V.L., Hrăniciuc T.A., Boboc V., Andriescu P., Balan C.D.
   Study on the Impact of Extreme Phenomena in Sustainable Urban Development – Case Study Metropolitan Area Bacău,
   S4P3, 10th International Conference on Environmental Engineering and Management (ICEEM 10), 2019.
10. Hrăniciuc T.A., Marcoie N., Balan C.D.
    Determination of the Flood Defense Embankment Elevation Crown, Using Advanced Hydrodynamic Modeling,
    S6P8, 10th International Conference on Environmental Engineering and Management (ICEEM 10), 2019.
11. Marcoie N., Toaca D., Hrăniciuc T.A., Balan C.D., Andriescu P., Boboc V., Toma D., Pavel V.L.
    The Impact of the Embankment and the Recreational Lake on Capturing Front with Drilling Wells,
    S6P11, 10th International Conference on Environmental Engineering and Management (ICEEM 10), 2019.

2017

12. Slușer B.M., Balan M.G., Rusu E., Balan C.D.
    Urban Land Use of Humor Catchment (Romania) over the Last Two Centuries and Its Environmental Impact,
    9th International Conference on Environmental Engineering and Management (ICEEM 09) – Circular Economy and Environmental Sustainability,
    Bologna, Italia, 6–9 septembrie 2017.

2015

13. Robu B.M., Schiopu A.M., Balan C.D., Pruteanu M., Apostol I.
    Postclosure Influence of Emissions Resulted from Municipal Waste Deposit: Case Study North-Eastern Region of Romania,
    S5P14, 8th International Conference on Environmental Engineering and Management (ICEEM 08), 2015.
14. Balan C.D., Robu B.M., Bulai P., Bilba D.
    Modeling Equilibrium Data for the Cd(II) Sorption by Peat Using Nonlinear Regression Analysis,
    S1P34, 8th International Conference on Environmental Engineering and Management (ICEEM 08), 2015.

2014

15. Manci C.-O., Corduneanu C., Balan C.D., Surugiu I.
    First Contribution to the Study of Lepidopteran Fauna (Insecta: Lepidoptera) from Stânca, Iași and New or Scarcely Known Species from Moldova Region (Romania),

Book of Abstracts, International Zoological Congress,
"Grigore Antipa" National Museum of Natural History, București, România, 2014.

2011

16. Balan C.D., Volf I., Bulai P., Bilba D., Macoveanu M.
Removal of Cr(VI) from Aqueous Environment Using Peat Moss: Equilibrium and Kinetic Study,
6th International Conference on Environmental Engineering and Management (ICEEM 06),
Balatonalmádi, Ungaria, 1–4 septembrie 2011.

2010

17. Bulgariu L., Lupu M., Balan C.D., Bulgariu D., Macoveanu M.
Natural Polymeric Materials Used for the Removal of Metal Ions from Aqueous Solutions,
Proceedings of the 14th International Symposium "Cellulose Chemistry and Technology",
Iași, România, 8–10 septembrie 2010.
18. Pata I., Balan C.D., Macoveanu M.
Passive Biomonitoring of Atmospheric Pollution with Heavy Metals Using Epigeic Lichens,
Proceedings of the 14th International Symposium "Cellulose Chemistry and Technology",
Iași, România, 8–10 septembrie 2010.

2009

19. Pata I., Balan C.D., Pata S.M., Macoveanu M.
Passive Biomonitoring of Atmospheric Pollution with Heavy Metals Using Native Epigeic Moss,
5th International Conference on Environmental Engineering and Management (ICEEM 05),
Tulcea, Danube Delta, România, 15–19 septembrie 2009.

2007

20. Balan C.D., Bilba D., Macoveanu M.
Removal of Hexavalent Chromium from Aqueous Solutions Using Sphagnum Moss Peat,
Simpozionul Internațional „Omul și Mediul", Timișoara, România, mai 2007.
21. Robu B., Balan C.D., Bilba D., Crețescu I., Macoveanu M.
Comparative Study of Cr(VI) Removal from Aqueous Solutions Using Natural Sorbents and Purolite A400 Resin,
Conferința Internațională de Chimie și Nanomateriale, 2007.

J. Invenții

K. Contracte de cercetare

Director de grant/contract

Contracte cu companii, regii, societăţi comerciale

1. Contract EDL 2-2001 din 14.12.2021 (nr. inreg. TUIASI 41935 din 15.12.2021), “Studii privind monitorizarea calitatii aerului de la statia de tratare mecano-biologica Tutora”, beneficiar: SC Edil Industry SRL, Coordonator laborator LACMED: C. Teodosiu, Director proiect: Catalin Balan, perioada contract: 14.12.2021 – 30.12.2024; valoare totala: 2000 RON fara TVA.

2. Director contract, 117/04.04.2016 (comanda), Ag. Economic, ITALTEX SRL Iasi, valoare contract 300, 2016.

3. Director Proiect, 570P/01.04.2016 (comanda), Ag. Economic, S.C. ELECTROALFA S.R.L., valoare contract 1020, 2016.
4. Director Proiect, 86/23.02.2016 (comanda), Ag. Economic, S.C. MARSEMAR S.A., valoare contract 430, 2016.
5. 2.7.13. Director Proiect, 652A16/10.02.2016 (comanda), Ag. Economic, UMF Iasi, valoare contract 480, 2016.
6. Director Proiect, IS083/25.01.2016 (comanda), Ag. Economic, S.C. EUROSERVICE TECHNOLOGY SRL, valoare contract 150, 2016.
7. . Director Proiect, 165/19.09.2016 (comanda), Ag. Economic, S.C. DUSTAS SRL, valoare contract 560, 2016.
8. Director Proiect, 109/03.02.2016 (comanda), Ag. Economic, S.C. DUSTAS SRL, valoare contract 450, 2016.
9. Director Proiect, 323/10.10.2016 (comanda), Ag. Economic, SC TC COMPIL IMPEX, valoare contract 450, 2016.
10. Director Proiect, 323/10.10.2016 (comanda), Ag. Economic, SC BOVISELECT SRL, valoare contract 450, 2016.
11. Director Proiect, 600/10.10.2016 (comanda), Ag. Economic, SC AGROSUIND COM SRL, valoare contract 1110, 2016.
12. Director Proiect, 601/10.10.2016 (comanda), Ag. Economic, SC AGROSUIND COM SRL, valoare contract 450, 2016.
13. Director Proiect, 602/10.10.2016 (comanda), Ag. Economic, SC AGROSUIND COM SRL, valoare contract 450, 2016.
14. Director Proiect, 315/10.10.2016 (comanda), Ag. Economic, SC PETROFOREST SRL, valoare contract 500, 2016.
15. Director Proiect, 67/10.10.2016 (comanda), Ag. Economic, S.C. DURAU SA, valoare contract 500, 2016.
16. Director Proiect, 625/10.10.2016 (comanda), Ag. Economic, SC TC COMPIL IMPEX, valoare contract 450, 2015.
17. Director Proiect, 1884P/14, Ag. Economic, S.C. ECOREC RECYCLING SRL Buhusi, valoare contract 2340, 2015
18. Director Proiect, 615P/2015, Ag. Economic, S.C. GARTEK SRL HUSI, valoare contract 1185, 2015
19. Director Proiect, 78P/2015, Ag. Economic, S.C. EURO CASTING SRL, valoare contract 1214, 2015
20. Director Proiect, 183P/2015, Ag. Economic, S.C. BRIKSTON CONSTRUCTION SOLUTION SA, valoare contract 0, 2015
21. Director Proiect, 875P/2015, Ag. Economic, S.C. BMTECH SRL Vladeni, valoare contract 0, 2015.

22. Director Proiect, 49/16.12.2015 (comanda), Ag. Economic, SC Mobeximzamco SRL, valoare contract 660, 2015.
23. Director Proiect, 183/14.12.2015 (comanda), Ag. Economic, SC Complet Serv SRL Birlad, valoare contract 630, 2015.
24. Director Proiect, 345/21.12.2015 (comanda), Ag. Economic, SC AGROSUIND COM SRL, , valoare contract 420, 2015.
25. Director Proiect, 710/02.12.2015 (comanda), Ag. Economic, SC Mobilarte SA, valoare contract 410, 2015.
26. Director Proiect, 408/02.12.2015 (comanda), Ag. Economic, SC BOVISELECT SRL, valoare contract 420, 2015.
27. Director Proiect, 1017/02.12.2015 (comanda), Ag. Economic, SC TC COMPIL IMPEX, valoare contract 420, 2015
28. Director Proiect, 322/16.10.2015 (comanda), Ag. Economic, SC MARCOMIUS SRL, valoare contract 290, 2015
29. Director Proiect, 513P/2015, Ag. Economic, valoare contract 630, 2015
30. Director Proiect, 1488P/14, Ag. Economic, valoare contract 1217, 2014
31. Director Proiect, 829P/14, Ag. Economic, S.C. Ceramica SA Iasi, valoare contract 3000, 2014
32. Director Proiect, 714P/2013, Ag. Economic, valoare contract 1800, 2014
33. Director Proiect, 1539P/12, Ag. Economic, valoare contract 1920, 2013
34. Director Proiect, 714P/2013, Ag. Economic, valoare contract 1200, 2013
35. Director Proiect, 564P/12, Ag. Economic, valoare contract 2500, 2013
36. Director Proiect, 564P/12, Ag. Economic, valoare contract 2500, 2012
37. Director Proiect, 1249P/10, Ag. Economic, valoare contract 2400, 2011
38. Director Proiect, 26P/2011, Ag. Economic, valoare contract 900, 2011
39. Director Proiect, 2173P/11, Ag. Economic, valoare contract 5000, 2011
40. Director Proiect, 1249P/10, Ag. Economic, valoare contract 2300, 2010
41. Director Proiect, 10621P/08, Ag. Economic, valoare contract 3100, 2009
42. Director Proiect, 3633P/09, Ag. Economic, valoare contract 9800, 2009
43. Director Proiect, 617P/03.02.2009, Ag. Economic, valoare contract 900, 2009

Membru în colectiv

1. SCIENCE BUILDING THE FUTURE, nr. proiect 101162512, acronim: SCIENCE4FUTURE-III, HORIZON-MSCA-2023-CITIZENS-01, HORIZON-MSCA-2023-CITIZENS-01-01, HORIZON Coordination and Support Actions, European Research Executive Agency, responsabil UTI: conf.dr.ing. Marcoie Nicolae, membri: conf. Pavel Vasile-Lucian, ș.l. Bălan Cătălin Dumitrel, ș.l. Toma Daniel, ș.l. Boboc Valentin, ș.l. Hrăniciuc Tomi Alexăndrel, perioada: 2024 – 2026
2. SCIENCE BUILDING THE FUTURE, nr. proiect 101061755, acronim: SCIENCE4FUTURE-II, HORIZON-MSCA-2022-CITIZENS-01, HORIZON-MSCA-2022-CITIZENS-01-01, HORIZON Coordination and Support Actions, European Research Executive Agency, responsabil UTI: conf.dr.ing. Marcoie Nicolae, membri: conf. Pavel Vasile-Lucian, ș.l. Bălan Cătălin, ș.l. Toma Daniel, ș.l. Boboc Valentin, ș.l. Hrăniciuc Tomi Alexăndrel, perioada: 1 aprilie 2022 - 31 ianuarie 2024
3. Contract nr. 17381/2018, Universitatea Tehnică “Gheorghe Asachi” din Iaşi, Centrul de Cercetare şi Transfer Tehnologic “Polytech”, Evaluare a impactului investiției “Împrejmuire cu dig de protecție și lac și construire locuințe” asupra corpului de apă subteran și de suprafață în conformitate cu Directiva 2014/52 EU a Parlamentului European și a Consiliului din 16.04.2014, de modificare a Directivei 2011/92 UE privind elaborarea efectelor anumitor proiecte publice și private asupra Mediului, director proiect: conf.dr.ing. Marcoie Nicolae, membri colectiv: prof.dr.ing. Stătescu Florian, prof.dr.ing. Giurma Handley Raluca, conf.dr.ing. Pavel Vasile Lucian, șef lucr.dr.ing. Toma Daniel, șef

lucr.dr.ing. Sârbu Gabriel Constantin, șef lucr.dr.ing. Boboc Valentin, șef lucr.dr.ing. Balan Cătălin, valoare totală contract: 11000 Euro, 2018.

4. Contract 7439 din 18.02.2022 (nr. inreg. TUIASI 6118 din 24.02.2022), Analize fizico-chimice pentru ape de suprafata, ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Director contract /coordonator laborator LACMED: C. Teodosiu, perioada contract: 18.02.2022 - 31.12.2022, valoare totala: 15.492 RON fara TVA, membru in echipa de proiect, 12 membri.

5. Contract 835 din 22.02.2022, (nr. inreg. TUIASI 5824 din 22.02.2022) “Monitorizarea calitatii apelor pluviale si a emisiilor provenite de la centrala térmica pe gaz de la SC MENNEKES ELECTRIC SRL”, beneficiar: SC MENNEKES ELECTRIC SRL, Coordonator laborator LACMED: C. Teodosiu, Director proiect: Carmen Paduraru perioada contract: 16.02.2022 – 30.12.2022; valoare totala: 1190 RON fara TVA, membru in echipa de proiect 8 membri.

6. Contract 15985 din 04.03.2022 (nr. inreg. TUIASI 9163 din 23.03.2022), Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 04.03.2022 – 31.12.2022; valoare totala: 14.286 RON, membra in echipa de proiect. 12 membri.

7. Contract 1256/26.01.2018, Monitorizarea factorilor de mediu stabiliti in programul de monitorizare postinchidere a depozitului neconform de deseuri Dorohoi, Beneficiar: Municipiul Dorohoi, Director contract/ coordonator laborator LACMED: C. Teodosiu, perioada: 01.12.2018 – 31.12.2018, valoare totala: 14.030 RON, Membri contract (numar: 11): Carmen Teodosiu, Carmen Paduraru, Lavinia Tofan, Cezar Catrinescu, Corina Musteret, George Barjoveanu, Daniela Gavrilescu, Daniela Fighir, Petru Apopei, Irina Morosanu, Catalin Balan.

8. Contract 7689/16.04.2018, Evaluarea indicatorilor de calitate ai apei subterane, de suprafata si pluviala, ai levigatului, ai solului, ai biogazului si ai aerului de la depozitul neconform de deseuri municipale Roman, beneficiar: Primaria Municipiului Roman, Director proiect/coordonator laborator LACMED: C. Teodosiu, perioada contract: 16.04.2018 – 31.12.2018; valoare totala: 14.326 RON. Membri contract (numar: 10): Carmen Teodosiu, Carmen Paduraru, Lavinia Tofan, Corina Musteret, George Barjoveanu, Daniela Gavrilescu, Daniela Fighir, Petru Apopei, Irina Morosanu, Catalin Balan

9. Contract 11087/25.05.2018, Determinari analitice pentru masurari de emisii de poluanti in atmosfera si analize fizico-chimice ale apelor uzate si apelor subterane, beneficiar: SC GEIGER TRANSILVANIA SRL, director contract: B. Sluser, coordonator laborator LACMED: C. Teodosiu, perioada contract: 25.05.2018 – 31.12.2018; valoare totala: 4.208 RON. Membri contract (numar: 9): Carmen Teodosiu, Brindusa Sluser, Carmen Paduraru, Corina Musteret, George Barjoveanu, Daniela Fighir, Petru Apopei, Irina Morosanu, Catalin Balan.

10. Comenzi 7855/15.02.2018 si 18560/23.04.2018, Analize fizico-chimice pentru ape subterane din foraje de observație, levigat, concentrat, permeat si probe de aer de la depozitele ȚUȚORA si TOMESTI, ape uzate de la Centrul municipal de colectare deseuri reciclabile si deseuri periculoase provenite de la populatie, Beneficiar: SC SALUBRIS SA, Responsabil comanda /coordonator laborator LACMED: C. Teodosiu, perioada comanda: 15.02.2018 - 31.12.2018, valoare totala: 27.870 RON. Membri contract (numar: 10): Carmen Teodosiu, Carmen Paduraru, Lavinia Tofan, Corina Musteret, George Barjoveanu, Daniela Gavrilescu, Daniela Fighir, Petru Apopei, Irina Morosanu, Catalin Balan.

11. Comanda 162/12.03.2018, Evaluarea indicatorilor de calitate ai aerului, Beneficiar: S.C. MARSEMAR S.A., responsabil comanda: C. Balan / coordonator laborator LACMED: C. Teodosiu, valoare totala: 470 RON. Membri contract (numar: 3): Carmen Teodosiu, Corina Musteret, Catalin Balan.
12. Comanda 56/12.03.2018, Evaluarea indicatorilor de calitate ai aerului, beneficiar: S.C. MOBILARTE S.R.L., responsabil comanda: C. Balan, coordonator laborator LACMED: C. Teodosiu, valoare totala: 920 RON. Membri contract (numar: 3): Carmen Teodosiu, Corina Musteret, Catalin Balan.
13. Comanda 27561/11.06.2018, Monitorizarea indicatorilor de calitate pentru aer din cadrul Serviciului de neutralizare ecologica a deseurilor periculoase al , coordonator laborator LACMED: C. Teodosiu, valoare totala: 470 RON. Membri contract (numar: 3): Carmen Teodosiu, Corina Musteret, Catalin Balan.
14. Membru, director proiect prof.dr.ing.Carmen Teodosiu, 2156P/11.11.2016, Ag. Economic, SC TECHNOSTEEL LBR SRL, valoare contract 530, 2016.
15. Membru, director proiect prof.dr.ing.Carmen Teodosiu, COL000276/02.11.2016 (comanda), Ag. Economic, SC A-E ELECTRONICS SA, valoare contract 925, 2016.
16. Membru - Contract de cercetare, contract nr. 3633P/11.11.2012 cu tema Analize fizico-chimice ale apei uzate provenite de la statia de epurare a SC DELPHI DIESEL SYSTEMS ROMÂNIA S.R.L, director Asist.dr.ing. Corina Petronela Musteret, valoare totala 95340 lei, 2011-2013.
17. Membru, in contract de cercetare STUDII PRIVIND EFICIENTIZAREA STATIEI DE EPURARE A SC DELPHI DIESEL SYSTEMS ROMÂNIA S.R.L., director de proiect: dr.ing. George Barjoveanu, valoare totala 86850 RON+TVA, ian-aprilie 2012.
18. Membru, director proiect sl.dr.ing.Corina Musteret, 3633 P/2011, Ag. Economic, SC Delphi Diesel Systems Romania SRL, valoare contract 53676, 2011
19. Membru - Construire si implementare sisteme de management de mediu (inclusiv Analiza initiala de mediu), conform ISO 14001 la S.C. ELMET INTERNATIONAL BACAU S.R.L., 2010.
20. Membru echipa de contract Contractul de cercetare Analize biochimice si calitative, valoare totala 118.000 RON (23000 Euro +TVA), subcontract la proiectul Phare RO 2006/018-447 01 01 02 – „Cooperare transfrontalieră pentru înfiinţarea unui Centru zonal privind formarea de experţi pentru sediul, păstrarea şi managementul resurselor genetice vegetale, în vederea utilizării eficiente a patrimoniului genetic şi a conservării mediului ambient”, parteneri: Universitatea de Ştiinţe Agricole şi Medicină Veterinară Iaşi (U.S.A.M.V. Iaşi), F.U.S.P.A. România şi Institutul „Selecţia” Bălţi, Universitatea de Stat Bălţi, Republica Moldova. Director proiect din partea U.T.I. Sl. dr. ing. Brindusa Robu 2009.
21. Membru echipa de contract. Contract de cercetare-dezvoltare 342 P/2007 “Bilant de mediu de nível II” S.C. Elmet International Bacau, Director proiect, Prof. M. Macoveanu, 2007.
22. . Contractul de cercetare Realizarea documentaţiei de mediu in vederea obtinerii Autorizatiei de mediu (Bilant de mediu de nivel I si II), - Contract 342P/2007, valoare totala 6500 RON, beneficiar S.C. ELMET INTERNATIONAL S.R.L., 2007, derulat prin CCTT Plytech, Universitatea Tehnica “Gheorghe Asachi” din Iasi.
23. Membru echipa de contract . Contract de cercetare-dezvoltare 164/3089P /2006 “Analiza continut de substante periculoase din apele subterane de la doua foraje F1 si F2 de pe amplasamentul depozitului controlat de deseuri Botosani” S.C. Urban Sev Botosani, director proiect, Prof. M. Macoveanu, 2006.

L. Premii, distincţii.

Medalii

1. 2024 - EUROINVENT- Iasi Romania (16 edition), **Gold Medal**, Proces for Integral valorization residues sourced in agricultural corp harvesting, Puitul Adrian Catalin, Barjoveanu George, Dragoi Niculoina Elena, Nechita Mircea teodor, Balan catalin Dumitrel, Custura Adriana Elena.
2. 2022 - EUROINVENT- Iasi Romania, **Bronze medal,** loan-Bogdan Robu, Viorel Herghiligiu, Roxana Dicu, George-Marian Aevoae, Adrian Vilcu, Cătălin Balan, Using fuzzy logic in energy sector M&AS, based on sustainability dimensions and audit opinion.

Premii

3. Premiu CNCSIS - IV Herghiligiu, IB Robu, M Pislaru, A Vilcu, AL Asandului, S Avasilcăi C Balan, Sustainable environmental management system integration and business performance: A balance assessment approach using fuzzy logic, Sustainability 11 (19), 5311, 2019.
4. Premiu CNCSIS ETAPA_II_2009, Mezdrea Cojocareanu Pata Ionela, Balan Catalin Dumitrel, Macoveanu Matei, Passive biomonitoring of atmospheric pollution with heavy metals using native epigeic moss, Environmental Engineering and Management Journal, 8 (5), pg. 1281-1287, septembrie-octombrie -ISSN-1582-9596, 2009

M. Alte realizări semnificative.

1. Expert evaluator - evaluare adecvată (EA) – Registrul naţional al elaboratorilor de studii pentru protecţia mediului la poziţia nr.187 – MAPPM;
2. Atestat TUV pentru realizarea Auditului de mediu;
3. Presedinte al Asociației “Radu Z. Tudose” a cadrelor didactice și a absolvenților facultății de inginerie chimică și protecția mediului “Cristofor Simionescu” din Iași (acronim ART-ING);
4. Vicepresedinte al Asociatiei pentru Dezvoltare Durabila OPTIM Botosani;
5. Mumbru fondator si membru in consiliul de administratie al Organizatia Academica de Ingineria Mediului si Dezvoltare Durabila;
6. Membru al - Societătii Lepidopterologice Romana (SLR);
7. Membru in colectivul de redactie al revistei Mnemosyni, https://www.addoptim.ro/pagini/html/mnemosyne/colectivredactie.html;
8. Membru (responsabil analiza aer) Laboratorul de analiza si control factori de mediu – LACMED – a fost infiintat in baza Hotararii Senatului nr. 56 /21.03.2013 a Universitatii Tehnice “Gheorghe Asachi” din Iasi . Laboratorul LACMED functioneaza la Facultatea de Inginerie Chimica si Protectia Mediului “Cristofor Simionescu” (2011-2025)

ianuarie 2026 sl.dr.ing. Cătălin Dumitrel Balan

Lista de lucrări în domeniul de studii universitare de licență
domeniul Ingineria Mediului

Numele şi prenumele: Șef lucr.dr.ing. Gavrilescu Daniela

A. Teza de doctorat (elaborata și susținută în limba engleză).

Institutie: Universitatea Tehnica ”Gheorghe Asachi” din Iasi
Perioada: 2008-2011
Coordonator: Prof.dr.ing. Carmen Teodosiu, Prof.dr.ing. Anton Friedl (Universitatea Tehnica din Viena, Austria)
Titlul tezei: Studies regarding advanced wastewater treatment using ultrasonication and ultrafiltration as combined processes
Titlul: Doctor in Inginerie Chimica

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Daniela Gavrilescu, (2021), Capitolul 19: Footprint asessment of solid waste managament in cartea Assessing Progress towards Sustainability: Frameworks, tools and case studies, Editori Carmen teodosiu, Silvia Fiore, Almudena Hospido, Editura Elsevier, ISBN 978-0-323-85851-9

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Daniela Gavrilescu, Brîndușa Mihaela Slușer, Carmen Teodosiu, Cristina Mihaela Salcă Rotaru, (2022), Managementul deșeurile solide în comunitățile rurale. Abordare legislativă și recomandări/ Waste Management in Rural Communities. Legal approach and Recommendations, Editura Universităţii Transilvania din Braşov.
2. Daniela Gavrilescu, Petru Apopei, George Bârjoveanu, Carmen Teodosiu, (2022), Capitolul 6. Managementul deșeurilor în comunitățile rurale. Ghid de bune practici, in cartea Educație pentru mediu în comunități rural esustenabile. Ghid de utilizare a resurselor educaționale deschise**,** Editura Universităţii Transilvania din Braşov.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.-

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web (2015-in prezent).

1. Materiale suport suport Solid Waste management-curs: 553 slide-uri (limba engleza), 2020, pe platforma MS Teams
2. Materiale suport Monitorizarea si raportarea deseurilor, curs: 494 slide-uri, 2020, pe platforma MS Teams
3. Materiale suport Managementul integrat al deseurilor deseurilor, curs: 539 slide-uri, 2021, pe platforma MS Teams

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI (2015-in prezent)

1. Madalina Maria Enache, Daniela Gavrilescu, Carmen Teodosiu, (2025), Comparative Analysis of Plastic Waste Management Options Sustainability Profiles, Polymers, 17(15), 2117, 1-19.

2. Madalina Maria Enache, Daniela Gavrilescu, Carmen Teodosiu, (2025), Comparative Analysis of Plastic Waste Management Options Sustainability Profiles, Polymers, 17(15), 2117, 1-19, FI=4.9
3. Anisoara Enache Talpalaru, Daniela Gavrilescu, Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105, 1-26, F.I.=3.3
4. Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management Journal, vol.24, no.3, 559-571, F.I.=0.9
4. Daniela Gavrilescu, Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context, Journal of Cleaner Production, 422, 138578.
5. Daniela Gavrilescu, George Bârjoveanu, Petru Apopei, Andreea Gherghel, Carmen Teodosiu, (2023), Preliminary performance evaluation for chicken manure treatment and valorization options, Environmental Engineering and Management Journal, 22(9), 1535-1545**.**
6. Daniela Gavrilescu, Anisoara Enache, Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, (2021), *Sustainability assessment of waste electric and electronic equipment management systems: Development and validation of the SUSTWEEE methodology*, Journal of Cleaner Production, 306, 127214.
7. Daniela Gavrilescu, Carmen Teodosiu, Mircea David, (2020), *Environmental assessment of wastewater discharges at river basin level by means of waste absorption footprint*, Sustainable Production and Consumption, 21, p. 33-46.
8. Dumitrita Ibanescu, Daniela Cailean, Carmen Teodosiu, Silvia Fiore, (2018), *Assessment of the waste electrical and electronic equipment management systems profile and sustainability in developed and developing European Union countries*, Waste Management, 73, p 39-53.
9. Daniela Cailean and Carmen Teodosiu, (2016), *An Assessment of a Solid Waste Management System Based on Sustainable Development Indicators*, Sustainable Production and Consumption, 8, p. 45-56.
10. Daniel Mareci, Lucia Carmen Trinca, Daniela Căilean, Ricardo Souto, (2016)*, Corrosion resistance of ZrTi alloys with hydroxyapatite-zirconia-silver layer in simulated physiological solution containing proteins for biomaterial applications,* Applied Surface Science*,* 389, 1069-1075, (IF=3.15).
11. Sorin Iacoban, Georgiana Bolat, Corneliu Munteanu, Daniela Cailean, Lucia Carmen Trinca, Daniel Mareci*,* (2015), *A comparative study on the corrosion behaviour of CoCr and NiCr dental alloys in saline medium,* Revue Roumaine de Chimie, 60(10), 949-955, (IF=0.311).
12. Daniela Cailean, Florina Ungureanu and Carmen Teodosiu, (2015), Homogeneous Sono-Fenton Process: Statistical Modeling and Global Sensitivity Analysis, International Journal of Nonlinear Sciences and Numerical Simulations, 16(1), p. 11-21, (IF=0.687)

- Articole publicate în volume indexate ISI Proceedings (2015-in prezent)
1. George Barjoveanu, Carmen Teodosiu, Daniela Cailean, (2017), *Life Cycle Assessment of the Romanian Electricity Mix: Impacts, Trends and Challenges*, Nearly Zero Energy Communities: Proceedings of the Conference for Sustainable Energy (CSE) 2017, p 473-489

- Articole indexate în baze de date internaţionale:-
G. Lucrări ştiinţifice publicate în reviste din străinătate.-
H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.-
I. Lucrări ştiinţifice publicate în volumele conferinţelor.-

- Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

1. Constantin Cîrjan, Daniela Gavrilescu, Carmen Teodosiu, 2024, Management of Packaging Waste From E-Commerce in the Context of the Circular Economy, Buletinul Institutului Politehnic Din Iaşi, Volumul 70 (74), Numărul 3, Secţia Chimie si Inginerie Chimică,doi: 10.5281/zenodo.13837961
2. George Barjoveanu, Petru Apopei, Daniela Gavrilescu, Andreea Gherghel And Carmen Teodosiu, 2023, Chicken Manure Valorisation By Forced Aeration In-Vessel Composting at Laboratory Scale, Buletinul Institutului Politehnic Din Iaşi, Volumul 69 (73), Numărul 3, Secţia Chimie si Inginerie Chimică,doi: 10.5281/zenodo.10072463
3. Mădălina-Maria Enache, Dorina Petrisor, Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu, 2023, An Overview of Legislative Changes in Packaging Waste management in Romania, Buletinul Institutului Politehnic Din Iaşi, Volumul 69 (73), numărul 4, secţia Chimie si Inginerie Chimică, doi: 10.5281/zenodo. 10684910

- Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date (2015-in prezent)

1**.** Daniela Cailean (Gavrilescu), Ovidiu Ghiuzan, Carmen Teodosiu, An Assessment of Romanian Solid Waste Management System Based on Sustainable Development Indicators, ICEEM 08 Book of Abstracts 2015
2. Carmen Teodosiu, George Barjoveanu, Daniela Cailean, Corina Petronela Musteret, Daniela Arsene, I. Moroșanu, Dan Popovici, Ioana Dăscălescu, Orest Trofin, Marius Minea, Ion Toma, Pilot scale ultrafiltration for municipal wastewater reuse, Conference proceedings International Conference Sustainable Solutions in Water Management 2017, Editura ARA, ISBN 978-973-88245-1-5, p.3-17.
3. Daniela Cailean (Gavrilescu), George Barjoveanu, Carmen Teodosiu, Sustainability of the packaging waste management systems in Eastern European countries ICEEM09 Book of Abstracts, 2017, ISSN 2457-7049, p.317-319
4. Daniela Cailean (Gavrilescu), Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, Comparative evaluation of greenhouse gas emissions resulted from e-waste management systems in Italy and Romania, ICEEM09 Book of Abstracts, 2017, ISSN 2457-7049, p.199-201
5. Daniela Gavrilescu and Carmen Teodosiu, An Assessment of Romanian Solid Waste Management System Based on Sustainable Development Indicators, International Sustainable Production and Consumption Conference Book of Abstracts, 2018
6. Andreea Gherghel, Daniela Fighir, Daniela Gavrilescu, Carmen Teodosiu,Sabino De Gisi, Greenhouse Gas Emissions And Energy Assessment Of Iasi Municipal Wastewater Treatment Plant Operation, 2019, ICEEM10 Book of Abstracts, p. 227-228, ISSN 2457-7049
7. Georgeta Ropcean, Daniela Gavrilescu, Carmen Teodosiu, Silvia Fiore, Environmental indicators in the assessment of municipal solid waste management systems. case study: north east region, romania, 2019, ICEEM10 Book of Abstracts, p235-236, ISSN 2457-7049
8. Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu, 2021, An assessment of waste management practices for implementing the Zero Waste Strategy Case study: Comanesti, Bacau, Romania, 4th International Conference of the Doctoral School “Gheorghe Asachi” Technical University of Iasi Romania Book of Abstracts, p.56
9. Anisoara Talpalaru, Daniela Gavrilescu, Carmen Teodosiu, 2021, Trends in municipal solid waste management in European Union, 4th International Conference of the Doctoral School “Gheorghe Asachi” Technical University of Iasi Romania Book of Abstracts, p. 59
10. Daniela Gavrilescu, George Barjoveanu, Petru Apopei, Anisoara Talpalaru, Constantin-Bogdan Seto, Carmen Teodosiu, Preliminary Performance Screening Of Chicken Manure Waste Treatment Options, ICEEM 11 Book of Abstracts, p.139-141

11. Ana-Maria Schiopu, Daniela Gavrilescu, Catalin Neculau, Carmen Teodosiu, Municipal solid waste characterization and sustainability assessment. Case study: Iasi city, romania, ICEEM 11 Book of Abstracts, p.147-149
12. Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu, 2022, Sustainability of packaging waste management in Romania: trends and impact, 6th International Conference on Chemical Engineering Innovative Materials and Processes for a Sustainable Development (ICCE6), October 5 – 7, 2022, p.95
13. Daniela Gavrilescu, Anisoara Talpalaru, Petru Apopei, George Barjoveanu, Carmen Teodosiu, 2022, Valorisation of biodegradable waste from intensive rearing of poultry for material and energy recovery: process modelling and economic analysis, 6th International Conference on Chemical Engineering Innovative Materials and Processes for a Sustainable Development (ICCE6), October 5 – 7, 2022, p.88
14. George Barjoveanu, Daniela Gavrilescu, Petru Apopei, Carmen Teodosiu, 2022, Life cycle assessment of chicken manure treatment options, 1st International Conference on Sustainable Chemical and Environmental Engineering (SUSTENG), 31.08.-04.09.2022, Rethymno, Crete, Greece, ISBN: 978-618-86417-0-9, p.101-103
15. Daniela Gavrilescu, George Barjoveanu, Carmen Teodosiu, Petru Apopei, Anisoara Talpalaru, 2022, Preliminary performance evaluation for chicken manure treatment and valorization options, 1st International Conference on Sustainable Chemical and Environmental Engineering (SUSTENG), 31.08.-04.09.2022, Rethymno, Crete, Greece, ISBN: 978-618-86417-0-9, p.337-339
16. Seto Bogdan Constantin, Gavrilescu Daniela, Șchiopu Ana-Maria, Neculau Cătălin, Teodosiu Carmen, Single-use beverage packaging waste quantification and sustainability assessment in the Romanian context, 12th International Conference on Environmental Engineering and Management, Iasi, Romania, 13-16 septembrie 2023, 87-88
17. Petrișor Dorina Maria, Zanfir Cristina Georgiana, Gavrilescu Daniela, Teodosiu Carmen, Spatial monitoring of household waste collection and transport based on real-time monitoring tools, 12th International Conference on Environmental Engineering and Management, Iasi, Romania, 13-16 septembrie 2023, p.111-112
18. Gavrilescu Daniela, Petrisor Dorina, Teodosiu Carmen, The Sustainability of the Household Food Waste Management System in Romania, 2nd International Conference on Sustainable Chemical & Environmental Engineering, Limassol, Cipru, 14-18 iunie 2023, 128-129
19. Gavrilescu Marius, Gavrilescu Daniela, Augmented Regression of Municipal Solid Waste Generation Rate Based on Economic and Social Data, 2nd International Conference on Sustainable Chemical & Environmental Engineering, Limassol, Cipru, 14-18 iunie 2023, p. 88-89
20. Gavrilescu Daniela, Bârjoveanu George, Apopei Petru, Gherghel Andreea, Talpalaru Anișoara, Teodosiu Carmen, Environmental impact assessment of gaseous emissions in laying hens manure management, 12th International Conference on Environmental Engineering and Management, Iasi, Romania, 13-16 septembrie 2023, 227-228.
21. Petrisor D., Cirjan C., Gavrilescu D., Teodosiu C. , Modelling Methane Emissions Resulting from Municipal Solid Waste Management: Reduction Options and Environmental Impact, 3rd International Conference on Sustainable Chemical and Environmental Engineering, 4th – 8th September 2024, Rethymno, Greece,BA, p.122-123
22. Gavrilescu M., Gavrilescu D., Modeling of Waste Electrical and Electronic Equipment Generation Rate using Multiple Regression Analysis, rd International Conference on Sustainable Chemical and Environmental Engineering, 4th – 8th September 2024, Rethymno, Greece, BA p.124-125.
23. Cîrjan C., Gavrilescu D., Teodosiu C., Management of packaging waste from e-commerce in the context of circular economy, 7th International Conference of the "Gheorghe Asachi"Doctoral School, May 15-17 2024, Iasi, Romania.

24. Enache M.M., Gavrilescu D., Teodosiu C., Advancements in Enzymatic and Microbial Plastic Degradation, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 Septembrie 2025, Iasi, Romania
25. Petrea G., Gavrilescu D., Schiopu A.M., Neculau C., Sustainable Approach of Organic Waste Valorisation in Biogas Plants, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 Septembrie 2025, Iasi, Romania
26. Cirjan C., Gavrilescu D., Teodosiu C., Management of Packaging Waste from ECommerce in the Context of The Circular Economy, 13th International Conference on Environmental Engineering and Management, ICEEM13, 17-20 Septembrie 2025, Iasi, Romania
27. Gavrilescu D., Overview of best practices in sustainable waste management in rural areas , conferinta " THE IMPACT OF WASTE MANAGEMENT ON THE ENVIRONMENT AND HEALH POPULATION", 9 mai 2025, Timisoara, Romania

J. Invenţii (toata activitatea).

1. Brevet nr. 122813/2010, Procedeu de ultrafiltrare-ultrasonare pentru epurarea apelor uzate din industria textila, autori: Carmen Teodosiu, Manea Liliana, George Barjoveanu, Andrei Bertea, Corina Musteret, Daniela Cailean
2. Brevet nr. 131271/2018, Procedeu integrat de degradare chimica si separare pe membrane semipermeabile pentru epurarea apelor uzate continand poluanti emergenti, autori : George Barjoveanu, Carmen Teodosiu, Cezar Florin Catrinescu, Daniela Fighir, Daniela Gavrilescu, Corina Petronela Musteret.

K. Contracte de cercetare.

Internaționale

1. Grant SEE EDUCAȚIE PENTRU MEDIU – RESURSE EDUCAȚIONALE DESCHISE PENTRU CETĂȚENI DIN MEDIUL RURAL – EnvEdu-OERs, cod proiect 19-COP-0038, 2020-2023, Responsabil TUIASI: Carmen Teodosiu, membru: Daniela Gavrilescu
2. "Transforming Education Area and Competency Hub for Sustainable Development" TEACH4SD, ERASMUS-EDU-2022-PEX-COVE, 2024-în prezent, Responsabil TUIASI:Ioana Olteanu, membru: Daniela Gavrilescu
3. 'WAste Reduction and Management by implementing circular economy in Western Africa" (acronim WARM), cod ERASMUS-EDU-2024-CBHE-STRAND – 2, 101179192, 2024-în prezent, Responsabil TUIASI: Brindusa Mihaela Sluser, membru: Daniela Gavrilescu

Naționale

1. PN-IV-P6-6.1-CoEx-2024-0056, Contract nr. 6CoEx din 02/03/2026, Centru de excelență în managementul apei, valorificarea materialelor, subproduselor și deșeurilor pentru implementarea bioeconomiei circulare, CERSUS, Director proiect: Carmen Teodosiu membru in echipa proiectului: Daniela Gavrilescu.
2. POR/1/1.1/OS 1.2/1, project number 136527, contract 7288/2021, (2021-2023) "Soluții integrate pentru managementul deșeurilor provenite din industria avicolă - Chicken Waste", director proiect: George Barjoveanu, membru: Daniela Gavrilescu
3. Grant PCCDI nr. 26/2018, PNCDI III (Proiecte complexe realizate în consorţii CDI), (2018-2021), Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate și valorificare a deșeurilor (Integrated and sustainable processes for environmental clean-up, wastewater reuse and waste valorization), acronim proiect: SUSTENVPRO, director proiect: Carmen Teodosiu, membru: Daniela Gavrilescu
3. Grant PNCDI II (Partneriate) no. 60/2012, (2012- 2016), Sistem integrat pentru reducerea impacturilor şi riscurilor de mediu şi asupra sănătăţii umane în ciclul de utilizare

al apei (WATUSER), director: Carmen Teodosiu, membru în echipa proiectului: Daniela Gavrilescu.

Contracte cu agenți economici (2015- in prezent), în domeniul disciplinelor susținute

1. Studii privind compoziția pe fracții a deșeurilor menajere și asimilabile din municipiul Iași, 2020-2021, Contract 12619/2020, beneficiar: Salubris, director contract: Daniela Gavrilescu
2. Studii privind compoziția materialului din colectare selectiva, intrat in instalatia de sortare si a compozitiei deseului menajer intrat in instalatia de tratare mecano-biologica Tutora, din judetul Iași, Contract 6119/2022, beneficiar: Edyl Industry, director contract: Daniela Gavrilescu
3. Studiu privind compozitia pe fractii a deseurilor depuse de comunitatea locala Iasi, Contract 6813/2023, beneficiar: Salubris, director contract: Daniela Gavrilescu
4. Studiu privind compozitia pe fractii a deseurilor depuse de comunitatea locala Iasi, Contract 43509/2023, beneficiar: Salubris, director contract: Daniela Gavrilescu
5. Studiu de evaluare a posibilităților de valorificare a deșeurilor de tip nămoluri de la SC ANTIBIOTICE SA, beneficiar: Antibiotice SA, Contract TUIASI,1652P/01.03.2024, director contract: Daniela Gavrilescu
6. Studiu privind compoziția pe fracții a deșeurilor, depuse de comunitatea locală în punctele de colectare din Iași, beneficiar: Salubris, Contract TUIASI, 14311/22.04.2024, director contract: Daniela Gavrilescu
7. Studiu privind posibilitățile de utilizare a deșeurilor de hârtie și carton pentru obținerea compostului, Contract TUIASI 15279/29.04.2024, beneficiar: Valmar Balycons, director contract: Daniela Gavrilescu
8. Studiu de expertiză tehnică a instalației de sortare a deșeurilor Bacău, Contract TUIASI30010/22.08.2024, Beneficiar: ADIS Bacau, director contract: Daniela Gavrilescu
9. Studiu de expertiză tehnică a instalației de compostare a deșeurilor Bacău, Contract TUIASI 39805/21.10.2024, Beneficiar: ADIS Bacau, director contract: Daniela Gavrilescu
10. Studiu privind compoziția pe fracții a deșeurilor depuse de comunitatea locală în punctele de colectare din Iași, Contract TUIASI 6599/26.02.2025, Beneficiar: Salubris, director contract: Daniela Gavrilescu
11. Studiu de expertiză tehnică pentru instalațiile tehnologice în cadrul proiectului de modernizare S.M.I.D. în județul Iași, în vederea tranziției spre economia circulară, Beneficiar: RomCapital Invest, Contract TUIASI 16845/07.05.2025, director contract: Daniela Gavrilescu
12. Analiza unor probe de produs de tip Compost like Output (CLO), obținut în urma tratării biologice în cadrul TMB Vidra, Ilfov, Comanda TUIASI 6596/26.02.2025, Beneficiar: Eco Sud, director comanda: Daniela Gavrilescu.
13. Contract nr. 7815 din 18.03.2026, Studiu privind compoziția pe fracții a deșeurilor, depuse de comunitatea locală în punctele de colectare din Iași, director proiect: Daniela Gavrilescu, coordonator laborator LACMED: Carmen Teodosiu, valoare totala: 25.000 RON
14. Contractul 411/29.01.2026, Studiu de monitorizare a parametrlor fizico chimici ai produsului de tip CLO obtinut in urma tratarii biologice in cadrul TMB, beneficiar EcoSud SA, director proiect: Daniela Gavrilescu, coordonator laborator LACMED: Carmen Teodosiu
15. Contractului nr. 71/21.05.2025, Studiu tehnic de specialitate privind activitatea de colectare a deșeurilor biodegradabile de pe raza Orașului Buhuși, beneficiar Gyndany Impex, director proiect: Daniela Gavrilescu, valoare totala: 5.000 RON
16. Contract nr. 103/28.07.2026, Analiza corectitudinii tehnice a metodologiei de calcul a indicatorilor de performanță de colectare a deșeurilor reciclabile și coerența acesteia cu definiția indicatorului de performanță pentru perioada 2023-2026, beneficiar Gyndany Impex, director proiect: Daniela Gavrilescu, valoare totala: 10.000 RON

L. Premii, distincţii (2015- in prezent).

1. Premiul de excelență la categoria Grupul care a contribuit la atragerea celor mai multe fonduri private pentru cercetare, în perioada 2015-2017,14 noiembrie 2018, Iasi, Romania
2. Premiul de excelenta in cercetarea stiintifica si medalia „Gheorghe Asachi" pentru tanarul cercetator cu cele mai bune performante in cercetarea stiintifica in perioada 2014-2016, noiembrie 2017, Iasi, Romania
3. Medalia de Aur la The World Exhibition on Inventions, Research and New Technologies, Brussels Innova, 17-19 noiembrie 2016, Bruxel, Belgia
4. Premiul de excelență la categoria Grupul care a contribuit la atragerea celor mai multe fonduri private pentru cercetare, în perioada 2013-2015,15 noiembrie 2016, Iasi, Romania
5. Diploma de Excelenta si Medalia de Aur la Targul International de Inventii si Idei Practice INVENT-INVEST 2016, 15-18 septembrie 2016, Iasi, Romania

M. Alte realizări semnificative.

1. Expert in implementarea metodologiei de evaluare a institutiilor de invatamant superior in vederea clasificarii universitatilor si a ierarhizarii programelor de studii si elaborarea raportului de evaluare, din partea Universitatii Tehnice „Gheorghe Asachi din Iasi", in proiectul „Imbunatatirea politicilor publice in invatamantul superior si cresterea calitatii reglementarilor prin actualizarea standardelor de calitate-QAFIN" Cod SIPOCA/ SMIS2014+:16, 2021
2. Lector pentru seminarul Overview of Best Practices in Sustainable Waste Management in Rural Areas, organizat de DIMM-TUIASI si Departmen of Civil, Structural and Environmental Engineering, University at Buffalo, New York, 11.11.2022.
3. Lector pentru o serie de prezentări legate de Managementul deșeurilor în comunitățile rurale la Iași, Brașov și București în cadrul proiectului internațional "Environmental Eduction –OERs for Rural Citizens", 19-COP-0038, 2022.
4. Lector pentru o serie de prezentări legate de Managementul deșeurilor, în cadrul proiectului internațional'WAste Reduction and Management by implementing circular economy in Western Africa" (acronim WARM), cod ERASMUS-EDU-2024-CBHE-STRAND – 2, 101179192, ianuarie, aprilie, septembrie 2025.
5. Lector pentru conferința The Impact of Waste Management on the Environment and Health Population, organizat de Romanian Environmental Association and University of Life Sciences "King Mihai I" from Timisoara, Faculty of Agriculture Timisoara, 9 mai 2025

Specializări în domeniul disciplinelor susținute și alte specializări:

a) Pe plan internațional

1. Master Class-ul referitor la Managementul eficient al Deșeurilor de Echipamente Electrice și Electronice, organizat de ISWA-YPG și Universitățile Stuttgart, Germania, Universitatea Rostock Germania, ECOLOGICON și eWasteAfrica.
2. Workshop internațional "Better Enforcement against Waste and Mercury Crime", online, 24-26.11.2021
3. Cursul online "Municipal Solid Waste Management in Developing Countries", École Polytechnique Fédérale de Lausanne, Elveția, oferit de Coursera, aprilie-mai 2020
4. Cursul online "Circular Economy - Sustainable Materials Management", Lund University, EIT RawMaterials, VITO, Geological Survey of Denmark and Greenland, National Technical University of Athens, Ghent University & Delft University of Technology, oferit de Coursera, aprilie 2020

b) Pe plan național

1. Seminar de instruire Gestiunea deșeurilor-noile prevederi legale, online, 24-25.11.2021
2. Curs de specializare în Substanțe chimice periculoase și a deșeurilor periculoase, 2019, organizat de Euroconsult Plus, Iasi, 1.02.2019

3. Curs de specializare in Managementul Deșeurilor, organizat de Euroconsult Plus, Iasi, 5-11.09.2013, titlu obținut: Specialist în managementul deșeurilor.
Sesiune de formare online ID/IFR 05.03.2021, organizata de ARACIS
6. Sesiune de formare online: Evaluarea externa la nivel de programe/domenii/ instituțional în modul de lucru mixt (blended), 05.11.2020, organizata de ARACIS
7. Curs de instruire pe structura informatica infiintata a personalului didactic implicat in evaluarea interna a calitatii, "Sistem de evaluare interna continua a calitatii educatiei - barometru al managementului strategic universitar – CALINT-BAROMANAG" – CNFIS-FDI-2019-0270, Iasi, 17.12.2019

Stagii de predare/instruire ERASMUS:
1. Universitatea Tehnică din Creta, Chania, Grecia, 27.08-10.09.2014
2. Universitatea Politehnică din Torino, Italia, 30.06-07.07.2015, 18.04-22.04.2018, 16-17.10.2025
3. Universitatea din Minho, Braga, Portugalia, 25.07-2.08.2015
4. Universitatea Santiago de Compostela, Spania, 29.08-3.09.2015
5. Universitatea din Pannonia, Ungaria, 17.07-21.07.2016, 01-04.10.2023
6. Universitatea Federico II, Napoli, Italia, 28.08-02.09.2016
7. Universitatea de Științe Aplicate Van Hall Larenstein și WETSUS-Centrul European de Excelență pentru Tehnologia Sustenabilă a Apei, Leeuwarden, Olanda, 31.10-03.11.2016, 19-26.05.2019
8. Universitatea Politecnico di Bari, Bari, Italia, 20.04-25.04.2017, 4.09-8.09.2018, 4.06-8.06.2024
9. Universitatea Roivira i Virgili, Tarragona, Spania, 10.05-15.05.2023
10. Universitatea Tehnica din Viena, Austria, 27.06-02.07.2024
11. Universitatea Gabriele d' Annunzio Chieti-Pescara, Italia, 26.05-31.05.2025
12. Universitatea Evora, Portugalia, 22-27.09.2025
13. Universiatea Rouen Normandia, Franta, 12.05-17.05.2025
14. Universiatea de Stiinte Aplicate Karlsruhe, Germania, 31.03-04.04.2025
15. Universitatea degli Studi di Salerno, Italia, 18-24.06.2026

Membru în societăţi ştiinţifice şi profesionale:
1. Membru in International Solid Waste Association (ISWA)
2. Membru in Organizația Academică de Ingineria Mediului și Dezvoltare Durabilă, OAIMDD
3. Membru in Rețeaua Română pentru Ecoinovare
4. Membru in Consorțiului Regional de Inovare Nord-Est
5. Membru in Grupul consultativ pentru Economie Circulară din regiunea Nord-Est

Data, Semnătură,

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

Numele şi prenumele: **Sef lucrari dr.ing. DANIELA FIGHIR**

A. Teza de doctorat.

Institutie: Universitatea Tehnică ”Gheorghe Asachi” din Iaşi
Perioada: Octombrie 2008- Octombrie 2011
Coordonator: dnei Prof.univ. dr.ing. **Carmen TEODOSIU**
Titlul tezei: ***Studii privind epurarea avansata a apelor uzate prin procese de oxidare catalitica in prezenta apei oxigenate***
Titlul: Doctor in Inginerie Chimica

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate

Capitole de carte publicate în străinătate:

1. Morosanu I., Teodosiu C.*, Tofan L., **Fighir D**., Paduraru C., **2020**. Valorization of Rapeseed Waste Biomass in Sorption Processes for Wastewater Treatment, Chapter of the Book "Environmental Change and Sustainability", Editor: Suriyanarayanan Sarvajayakesavalu, IntechOpen Publishing House, 25 pagini, ISBN 978-1-83880-917-1, DOI: http://dx.doi.org/10.5772/intechopen.94942
2. Bârjoveanu G., Teodosiu C., Mihai M., Morosanu I., **Fighir D**., Vasiliu A-M., Bucatariu F. **2022**. Life cycle assessment for eco-design in product development, Chapter of the Book: *Assessing the sustainability progress: frameworks, tools and case studies,* Editors: Teodosiu C., Fiore S., Hospido A. (Elsevier contract no. 846739), published by Elsevier Netherlands, ISBN: 978-0-323-85851-9, pages: 247-271 (25 pagini, DOI: https://doi.org/10.1016/B978-0-323-85851-9.00012-2

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. **Arsene Daniela**, 2011, *Studii privind epurarea avansată a apelor uzate prin procese de oxidare catalitică în prezența apei oxigenate*, Editura Politehnium, ISBN 978-973-621-342-7
2. Corina Petronela Musteret, **Daniela Fighir**, Daniela Gavrilescu, Carmen Zaharia, Carmen Teodosiu, **2014**. **TRATAREA SI EPURAREA APEI: APLICATII PRACTICE**, Editura Politehnium, Iasi, ISBN 978-973-621-442-4, pag. 1- 250
3. Brîndușa Mihaela SLUȘER, **Daniela FIGHIR**, Corina MUSTEREȚ, Carmen TEODOSIU, **2022**, Capitolul 5, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, Educație pentru mediu în comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise, ISBN 978-606-19-1524-8
4.

D. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articole publicate în reviste cotate ISI

1. Abalasei ME, **Fighir D**, Ciobanu R and Teodosiu C (2026) An integrated ECAM–Entropy–TOPSIS framework for evaluating energy consumption and greenhouse gas

emissions in drinking water supply systems. Front. Environ. Sci. 14:1938618. doi:10.3389/fenvs.2026.1938618
2. **Fighir Daniela**, Wei Wang, Taher Ahmadi, Brindusa Sluser, **2026**, Status and perspectives of sustainability indicators applied in the water sector, Current Opinion in Environmental Sustainability, Volume 81,2026,101647, ISSN 1877-3435, https://doi.org/10.1016/j.cosust.2026.101647.
3. Abalasei, M. E., **Fighir, D.,** & Teodosiu, C., 2026, Water Pollution and Human Health: An Integrated Risk Perspective. *Water*, *18*(13), 1612. https://doi.org/10.3390/w18131612
4. Georgiana-Diana Gabur, Valeriu V. Cotea, **Daniela Fighir**, Carmen Teodosiu, Iulian Gabur, Dissipation behavior and dietary risk assessment of pesticide residues during the winemaking of Fetească neagră and Cabernet Sauvignon, Food Chemistry: X, Volume 36, 2026, 103930, ISSN 2590-1575, https://doi.org/10.1016/j.fochx.2026.103930.
5. Abalasei M.E., **Fighir D.,** Teodosiu C., **2025**, Evolution of the Environmental Impact Assessment Process in Romania in the Context of Sustainable Development, Applied Sciences,15(7), 3777, https://doi.org/10.3390/app15073777
6. Gabur G.D., Carmen T., **Fighir D.,** Cotea V., Gabur I., From Waste to Value in Circular Economy: Valorizing Grape Pomace Waste through Vermicomposting, **2024**, Agriculture, Vol 14, 1529, https://doi.org/10.3390/agriculture14091529
7. **Fighir D**., Paduraru C., Ciobanu R, Bucatariu F., Plavan O, Gherghel A, Barjoveanu G., Mihai M., Teodosiu C., **2024**, Removal of Diclofenac and Heavy Metal Ions from Aqueous Media Using Composite Sorbents in Dynamic Conditions, Nanomaterials, Vol 14 (1), article no 33, 10.3390/nano14010033
8. Morosanu I.; Bucatariu F.; **Fighir D**.; Paduraru C.; Mihai M.;Teodosiu C., 2023, Optimization of Lead and Diclofenac Removal from Aqueous Media Using a Composite Sorbent of Silica Core and Polyelectrolyte Coacervate Shell. Polymers **2023**, 15, 1948. https://doi.org/10.3390/polym15081948.
9. Morosanu I., Paduraru C., Bucatariu F., **Fighir D.,** Mihai M., Teodosiu C., 2022, Shaping polyelectrolyte composites for heavy metals adsorption from wastewater: Experimental assessment and equilibrium studies, Journal of Environmental Management, 3211 November 2022, 10.1016/j.jenvman.2022.115999
10. Zait R., **Fighir D.**, Sluser B.*, Plavan O., Teodosiu C*., 2022. Priority Pollutants Effects on Aquatic Ecosystems Evaluated through Ecotoxicity, Impact, and Risk Assessments, Water, 14(20), 3237, DOI: 10.3390/w14203237
11. Zait R., Sluser B.*, **Fighir D.**, Plavan O., Teodosiu C*., 2022. Priority pollutants monitoring and water quality assessment in the Siret River basin, Romania, Water, 14(1), 129, DOI: https://doi.org/10.3390/w14010129
12. Bucatariu F., Teodosiu C*, Morosanu I., **Fighir D.,** Ciobanu R., Petrila L-M, Mihai M.*, 2021. An overview on composite sorbents based on polyelectrolytes used in advanced wastewater treatment, Polymers,13,3963. DOI:https://doi.org/10.3390/polym13223963
13. Morosanu I, Teodosiu C, **Fighir D.**, Paduraru C, 2019, Simultaneous biosorption of micropollutants from aqueous effluents by rapeseed waste, Process Safety and Environmental Protection, 132, 231-239. (I.F.2018=4,384) https://doi.org/10.1016/j.psep.2019.09.029
14. Fighir (Arsene) D., Teodosiu C., Fiore S., 2019, Environmental and Energy Assessment of Municipal Wastewater Treatment Plants in Italy and Romania: A Comparative Study, Water 2019, 11(8), 1611; (I.F.2018=2,524) https://doi.org/10.3390/w11081611
15. Morosanu I., Gilca A.-F., Paduraru C., **Fighir D**., Peptu C.A., Teodosiu C., 2017, Valorisation of rapeseed as biosorbent for the removal of textile dyes from aqueous effluents, Cellulose Chemistry and Technology, 51 (1-2), 175-184 (I.F.= 0.857)
16. Chelba A., **Arsene D.,** Morosanu I., Tofan L., Teodosiu C., 2014, Secondary municipal effluent treatment by catalytic wet hydrogen peroxide oxidation, Environmental Engineering and Management Journal, Vol. 12, No.9,. 2401-2410, (I.F. 2018= 1,186) DOI:10.30638/eemj.2014.268

17. Arsene D., Teodosiu C., Barjoveanu G., Apreutesei R.E., Apopei P., Musteret C.P., Cailean D., (2013), Combined catalytic oxidation and adsorption of priority organic pollutants for wastewater recycling, Environmental Engineering and Management Journal, Vol. 12, No.5, 907-916, (I.F. 2018= 1,186) DOI:10.30638/eemj.2013.112

18. Catrinescu C., **Arsene D.,** Apopei P., Teodosiu C., (2012), Degradation of 4-chlorophenol from wastewater through heterogeneous Fenton and photo-Fenton process catalyzed by Al-Fe PILC, Applied Clay Science 58, 96-101, (I.F.2018=3.890) https://doi.org/10.1016/j.clay.2012.01.019

19. Arsene D., Musteret C.P., Catrinescu C., Apopei P., Barjoveanu G., Teodosiu C., (2011), Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management Journal, Vol.10, (12), 1967-1976, (I.F. 2018= 1,186) DOI:10.30638/eemj.2011.261

20. Catrinescu C., **Arsene D.,** Teodosiu C. (2011), Catalytic wet hydrogen peroxide oxidation of para-chlorophenol over Al/Fe pillared clays (AlFePILCs) prepared from different host clays, Applied Catalysis B: Environmental, 101, 451-460, (I.F 2018=14,229) https://doi.org/10.1016/j.apcatb.2010.10.015

21. Arsene D., Catrinescu C., Drăgoi B., Teodosiu C., (2010), Catalytic wet hydrogen peroxide oxidation of 4-chlorophenol over iron-exchange clays, Environmental Engineering and Management Journal, 9 (1), 7-16, (I.F.2018=1,186) DOI:10.30638/eemj.2010.002

E. Lucrări științifice publicate în reviste din străinătate.

F. Lucrări științifice publicate în reviste din țară, recunoscute de CNCSIS.

G. Lucrări științifice publicate în volumele conferințelor.

- Articole indexate în baze de date internaţionale

1. **Arsene D**., Catrinescu C., Teodosiu C., (2011), Influence of Operational Parameters on the Removal of 4-Chlorophenol from Wastewater by Heterogeneous Fenton Process, Buletinul Institului Politehnic, Secţia Chimie şi Inginerie Chimică, Bul. Inst. Polit. Iasi, t. LVII (LXI), f. 3, p. 185-196

- Articol/studiu publicat în volumul unei manifestări științifice neindexate în baze de date

1. Teodosiu C. *, Barjoveanu G., Cailean (Gavrilescu) D., Musteret C.P., **Arsene (Fighir) D.,** Morozanu I., Popovici D., Dăscălescu I., Trofin O.*, Minea M., Toma I., **2017**. **Pilot-scale ultrafiltration for municipal wastewater reuse**. International Conference Proceedings: 2017, ARA Publishing House, ISBN 978-973-88245-1-5, pages: 3-17

H. Invenții.

1. Morozanu I., Teodosiu C., Păduraru C., **Fighir D.,** 2023. **Biosorbent obținut din deșeuri lignocelulozice si procedeu de epurare avansată a apelor uzate**, Brevet OSIM nr. 135257/29.11.2023. Nr. cerere brevet 5322/24.05.2021; Registratura OSIM A10031/04.06.2021.

2. G. Barjoveanu, C. Teodosiu, C.F. Catrinescu, D.Fighir, D. Gavrilescu, C.P.Musteret (**2018**) **Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți,** Cerere de brevet nr. 5075/25.11.2015 inregistrata la OSIM cu nr. **A/00967** din 04.12.2015. **Brevet OSIM nr. 131271**/30.08.2018

I. Contracte de cercetare.

1. Proiect de cercetare nr. 6CoEx/02.06.2026, ***Centru de excelență în managementul apei, valorificarea materialelor, subproduselor și deșeurilor pentru implementarea bioeconomiei circulare (CERSUS)***, Director proiect: prof.univ.dr.ing. Carmen Teodosiu.
2. Proiect PN-IV-P2-2.1- TE-2023-0333, ***Biomateriale – agenți de limpezire în producția durabilă a vinului***, coordonat de dna. Sef lucr.dr. Diana Gabur
3. Proiect ***WAste Reduction and Management by implementing circular economy in Western Africa" (acronim WARM)***, cod ERASMUS-EDU-2024-CBHE-STRAND – 2 și grant agreement number 101179192, 01.12.2024 – 30.11.2027, coordonat de către prof.univ.dr.habil.ing. Brindușa Mihaela SLUȘER, manager proiect pentru TUIASI
4. Contract EEA nr. 19-COP-0038, cu titlul „*Environmental Education- OERs for Rural Citizens" (EnvEdu-OERs),* Responsabil proiect TUIASI: prof.univ.dr.ing. Carmen TEODOSIU
5. Acord de grant nr. 129/SGU/PV/II/13.05.2019, *Reacționează Chimic cu Mediul de la TUIASI – RCM TUIASI*, director de grant conf.univ.dr.ing. Irina Cârlescu, perioada 2019-2025
6. Grant PCE nr. 56/2021 PNCDI III (Proiecte de cercetare exploratorie) ***Innovative and sustainable solutions for priority and emerging pollutants removal through advanced wastewater treatment processes*** (acronym: SUSTINWATER)/ Soluții inovative și sustenabile pentru eliminarea poluanților prioritari și emergenți prin procese de epurare avansată a apelor uzate", valoare proiect: 1.198.032 lei, 04.01.2021- 31.12.2023, Project director: Carmen Teodosiu (code PN-III-P4-ID-PCE2020-1199)
7. Grant PCCDI nr. 26PCCDI/01.03.2018, PNCDI III (Proiecte complexe realizate în consorţii CDI), ***Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate și valorificare a deșeurilor*** (Integrated and sustainable processes for environmental clean-up, wastewater reuse and waste valorization), acronim proiect: SUSTENVPRO, (01.03.2018 - 30.12.2020), valoare proiect: 5.287.500 lei, valoare TUIASI: 1.712.250 lei,
8. Grant PED nr. 521PED/2020, ***Microparticule compozite nisip/polielectrolit cu capacitate ridicata de încărcare/eliberare de compuși anorganici/organici din ape poluate*** (Quartz sand/polyelectrolyte composite microparticles with high loading/release of some inorganic/organic compounds from polluted waters), acronim POLYSAND, Responsabil proiect partener: Carmen Teodosiu, 01.05.2020-30.04.2022, (cod PN-III-P2-2.1-PED-2019-1996)
9. Proiect POSDRU ID 136423, ***Noi abordări în formarea profesională a specialiştilor din domeniul Ingineria Mediului în vederea dezvoltării durabile regionale şi a corelării la cerinţele actuale ale pieţii muncii" – REGIOSIM*** (2014-2015), Responsabil Partener P1: Prof.dr.ing. Carmen TEODOSIU, membru în echipa de proiect: expert implementare Daniela Fighir
10. Grant PN-II-ID-PCE-2008-2, IDEI, Cod 368, Contract nr. 739/2009, (2008-2011), ***Procese combinate de epurare avansată a apelor uzate pentru eliminarea poluanţilor organici persistenţi şi îmbunătăţirea biodegradabilităţii apelor uzate***, Director Proiect: Carmen Teodosiu, Valoare totala, 961.500 RON, membru în echipa proiectului: Daniela FIGHIR

J. Premii, distincții.

1. Diploma of Excellence for Innovative Research at European Exhibition of Creativity and Innovation, EUROINVENT 2012, Iasi, Romania, 11th of May 2012, for the paper Heterogeneous catalyst based on Romanian montmorillonite for the catalytic wet hydrogen peroxide oxidation of chlorophenols from wastewaters

2. The World Exhibition on Inventions, Research and New Technologies, ***Brussels Innova*** 17-19 Nov. **2016**, Brussels, Belgium - **Gold Medal** for the Patent request: Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Authors: George Barjoveanu, **Carmen Teodosi**u, Cezar Catrinescu, Daniela Fighir, Daniela Gavrilescu, Corina Musteret
3. Târgul Internațional de Invenții și Idei Practice INVENT-INVEST 15-18 Sept. 2016, Iași, Romania - Diploma de Excelență și **Medalia de Aur**, Patent request: Procedeu integrat de degradare chimică și separare pe membrane semipermeabile pentru epurarea apelor uzate conținând poluanți emergenți, Authors: George Barjoveanu, **Carmen Teodosi**u, Cezar Catrinescu, Daniela Fighir, Daniela Gavrilescu, Corina Musteret
4. Premiul de excelență în cercetarea științifică și medalia „Gheorghe Asachi" –membră în grupul de cercetare care a atras cele mai multe fonduri private în cercetare în perioada 2013-2015, noiembrie 2016
5. Premiul de excelență în cercetarea științifică și medalia „Gheorghe Asachi" pentru coordonarea grupului de cercetare care a atras cele mai multe fonduri în perioada 2011-2013, Universitatea Tehnică „Gheorghe Asachi" din Iași, noiembrie 2014

Octombrie 2026 **Șef lucr.dr.ing. Daniela FIGHIR**

DR.ENG. Petronela COZMA

Scientific activity

Papers in journals

ISI ranked journals

2026

1. *Microbial Pathways for a Cleaner Environment: Perspectives from the Special Issue "Microbial Bioremediation of Environmental Pollution (2nd Edition) - Editorial*
Cozma, P.; Hlihor, R.-M.
Processes 2026, 14, 2695. https://doi.org/10.3390/pr14172695 (**IF 3.4, Q3**, WOS:001874232800001, eISSN 2227-9717)

2025

2. *Phytoremediation: A sustainable and promising bio-based approach to heavy metal pollution management*,
Cozma P., Rosca M., Minut M., Gavrilescu M.,
Science of The Total Environment, 2025, vol. 1001, 180458,
https://doi.org/10.1016/j.scitotenv.2025.180458, (**IF 8, Q1,** ISSN: 1879-1026)

2024

3. *Bio-Recovery of Metals through Biomining within Circularity-Based Solutions*,
Cozma, P.; Bețianu, C.; Hlihor, R.-M.; Simion, I.M.; Gavrilescu, M.
***Processes,* 2024**, 12, 1793, https://doi.org/10.3390/pr12091793 (**IF 2.8, Q2**, WOS:001323634900001, eISSN 2227-9717)

4. *Evaluation of Microbial Biosorbents for Efficient Cd(II) Removal from Aqueous Solutions*
Mihaela Rosca, Mariana Diaconu, Raluca-Maria Hlihor, **Petronela Cozma**, Bruna Silva, Teresa Tavares, Maria Gavrilescu,
***Water*, 2024**, 16, 3660, https://doi.org/10.3390/w16243660 (**IF 3, Q2**, eISSN 2073-4441)

2023

5. *Microbial Bioremediation of Environmental Pollution*, (Editorial),
Hlihor R.M., **Cozma P**.,
***Processes*, 2023**, 11, 1543, https://doi.org/10.3390/pr11051543, (**IF 3.5, Q2**, WOS:000996636900001, eISSN 2227-9717)

6. *Screening of Azotobacter, Bacillus and Pseudomonas Species as Plant Growth-Promoting Bacteria,*
Minuț M., Diaconu M., Roșca M., **Cozma P**., Bulgariu L., Gavrilescu M.,
***Processes*, 2023**; 11(1):80. https://doi.org/10.3390/pr11010080, (**IF 3.5, Q2**, WOS:000918989600001 eISSN 2227-9717) (author corresp.)

7. *Sources, composition and management strategies of waste electrical and electronic equipment: a review*,
Simona Cecilia Ghiga, Isabela Maria Simion, Cătălina Filote, Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu,
***Environmental Engineering and Management Journal*, 2023**, Vol. 22, No. 3, 509-526, http://doi.org/10.30638/eemj.2023.040 (**IF 1.1,** Q4, WOS:001025426300010, ISSN 1582-9596, eISSN 1843-3707)

2021

8. *New evidence of model crop Brassica napus L. in soil clean-up: comparison of tolerance and accumulation of lead and cadmium*, (author corresp.)
Mihaela Rosca, **Petronela Cozma**, Mariana Minut, Raluca-Maria Hlihor, Camelia Betianu, Mariana Diaconu, Maria Gavrilescu
Plants-Basel, **2021**, **10**, 2051, https://doi.org/10.3390/plants10102051, (**IF=3.935**, **Q2,** WOS:000713523900001, eISSN 2223-7747)

9. *Sustainable application of biosorption and bioaccumulation of persistent pollutants in wastewater treatment: current practice*,
Cătălina Filote, Mihaela Roșca, Raluca Maria Hlihor, **Petronela Cozma**, Isabela Maria Simion, Maria Apostol, Maria Gavrilescu
Processes, **2021**, **9**, 1696, https://doi.org/10.3390/pr9101696 (**IF 2.847,** Q3, WOS:000712801500001, eISSN 2227-9717)

10. *Artificial neural network applied in forecasting the composition of municipal solid waste in Iasi, Romania*,
Ghinea Cristina, **Cozma Petronela**, Gavrilescu Maria,
Journal of Environmental Engineering and Landscape Management, **2021**, **29**, 368-380, DOI10.3846/jeelm.2021.15553 (**IF 1.373,** Q4, WOS:000719100500009, ISSN:1648-6897, eISSN:1822-4199)

2020

11. *Sorption of organic pollutants onto soils: surface diffusion mechanism of congo red azo dye*,
Camelia Smaranda Betianu, **Petronela Cozma**, Mihaela Rosca, Elena-Diana Comănită Ungureanu, Ioan Mămăligă, Maria Gavrilescu
Processes, 2020, **8(12)**, 1639; doi:10.3390/pr812163 (**IF 2.753**)

12. *Modelling of health risk associated with the intake of pesticides from Romanian fruits and vegetables*,

Mariana Minut, Mihaela Rosca, Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu
Sustainability, 2020, **12(23)**, 10035; doi:10.3390/su122310035 (**IF 2.576**)

13. *Knowledge transfer in university – industry research collaboration for extending life cycle of materials in the context of circular economy,*
Petronela Cozma, Camelia Smaranda, Elena-Diana Comăniță, Mihaela Roșca, Cristina Ghinea, Teofil Câmpean, Maria Gavrilescu
Environmental Engineering and Management Journal, **19**, 2097-2112 **(2020)**, (**IF 1.186 pentru anul 2018**)

2019 ***14.*** *Modelling the behavior of pesticide residues in tomatoes and their associated long-term exposure risks, (author corresp) Q2 in 2019*
Raluca-Maria Hlihor, Mihaela Rosca, **Petronela Cozma**, Manuela Olga Pogăcean, Maria Gavrilescu,
Journal of Environmental Management, **233**, 523-529, **(2019)** (**IF 4.005**),
https://doi.org/10.1016/j.jenvman.2018.11.045, WOS:000459525100053, **ISSN** 0301-4797, **eISSN** 1095-8630

2018 ***15.*** *Evaluation of human health risks associated with pesticide dietary intake - an overview on quantitative uncertainty analysis,*
Petronela Cozma, Raluca-Maria Hlihor, Mihaela Roșca, Laura Carmen Apostol, Maria Gavrilescu,
Environmental Engineering and Management Journal, **17**, 2263-2274, **(2018)** (**IF 1.334**)

16. *Evaluation of eco-efficiency by multicriteria decision analysis. case study of eco-innovated and eco-designed products from recyclable waste,*
Elena-Diana Comăniță, **Petronela Cozma**, Isabela Maria Simion, Mihaela Roșca, Maria Gavrilescu,
Environmental Engineering and Management Journal, **17**, 1791-1804, **(2018)** (**IF 1.334**)

17. *Comparison of Rhodotorula sp. and Bacillus megaterium in the removal of cadmium ions from liquid effluents,*
Mihaela Rosca, Raluca Maria Hlihor, **Petronela Cozma**, Elena Niculina Dragoi,
Mariana Diaconu, Bruna Silva, Teresa Tavares, Maria Gavrilescu,
Green Processing and Synthesis, **7**, 74-88, **(2018),** DOI: https://doi.org/10.1515/gps-2016-0218. (**IF 1.170**)

2015 ***18.*** *Modeling and simulation of high pressure water scrubbing technology applied for biogas upgrading,*
Petronela Cozma, Walter Wukovits, Ioan Mămăligă, Anton Friedl, Maria Gavrilescu,
Clean Technologies and Environmental Policy, **17(2)**, (2015), 373-391, DOI: 10.1007/s10098-014-0787-7.

19. *Modelling and optimization of CO_2 absorption in pneumatic contactors using artificial neural networks developed with clonal selection based algorithm,*
Petronela Cozma, Elena Niculina Drăgoi, Ioan Mămăligă, Silvia Curteanu, Walter Wukovits, Anton Friedl, Maria Gavrilescu,
International Journal of Nonlinear Sciences and Numerical Simulation, **16(2)**, 97-110, (2015), ISSN (Online) 2191-0294, ISSN (Print) 1565-1339, Q3, DOI: 10.1515/ijnsns-2014-005. (ISI, Web of Science, **F.I.=0.687**).

20. *Environmental impact assessment of high pressure water scrubbing biogas upgrading technology,*
Petronela Cozma, Cristina Ghinea, Ioan Mămăligă, Walter Wukovits, Anton Friedl, Maria Gavrilescu,
CLEAN – Soil, Air, Water, **41(9)**, (2013), Q3, 917–927, DOI: 10.1002/clen.201200303.

2013 ***21.*** *Analysis and modeling of the solubility of biogas components in water for physical absorption processes,*
Petronela Cozma, Walter Wukovits, Ioan Mămăligă, Anton Friedl, Maria Gavrilescu,
Environmental Engineering and Management Journal, **12(1)**, (2013), 147-162.

22. *Comparison of combined ethanol and biogas polygeneration facilities using exergy analysis,*
Petronela Cozma, Maria Gavrilescu, Anton Friedl,
Environmental Engineering and Management Journal, **12(8)**, (2013), 1575-1582.

23. *Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators,*
Maria Emiliana Fortună, Isabela Maria Simion, Cristina Ghinea, Madalina Petraru, **Petronela Cozma**, Laura Carmen Apostol, Raluca-Maria Hlihor, Dana Tudorache Fertu, Maria Gavrilescu,
Environmental Engineering and Management Journal, **11(2)**, (2012), 333-350.

2012 ***24.*** *Airlift reactors: applications in wastewater treatment*,
Petronela Cozma, Maria Gavrilescu,
Environmental Engineering and Management Journal, **11(8)**, (2012), 1505-1515.

25. *Aerobic biodegradation of phenol by activated sludge in a batch reactor,*
Petronela Cozma, Raluca-Maria Hlihor, Laura Carmen Apostol, Mariana Diaconu, Manuela Olga Pogacean, Maria Gavrilescu,
***Environmental Engineering and Management Journal*, 11(11)**, (2012), 2053-2058.

2010 ***26.*** *Airlift reactors: hydrodynamics, mass transfer and applications in environmental remediation,*
Petronela Cozma, Maria Gavrilescu,
Environmental Engineering and Management Journal, **9(5)**, (2010), 681-702.

Journals included in data bases, peer reviewed, CNCSIS

2023 ***1.*** *Environmental and human impacts of the toxic pesticides use in agriculture: a review*
Mihaela ROSCA, **Petronela COZMA**, Raluca-Maria HLIHOR,

Proc. Rom. Acad., Series B, 2023, 25(3), p. 185–191

2. *Ecological risk assessment of heavy metals in soils and sediments: a review*
Petronela COZMA, Mihaela ROȘCA, Isabela Maria SIMION, Raluca-Maria HLIHOR
Proc. Rom. Acad., Series B, 2023, 25(3), p. 193–200

2022 ***3.*** *Identification of impacts and human health risks produced by the presence of pesticides in the environment. I. Pesticides behaviour in the environment,*
Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu,
Annals of the Academy of Romanian Scientists, Series on Physics and Chemistry**,** Volume 7, Number 2***/*2022**, 83-119, Online ISSN 2559 – 1061.

4. *Identification of impacts and human health risks produced by the presence of pesticides in the environment. II. Human health risks generated by the presence of pesticides in plant products*,
Mariana Minuț, Mihaela Roșca, Petronela Cozma, Maria Gavrilescu,
Annals of the Academy of Romanian Scientists, Series on Physics and Chemistry, Volume 7, Number 2/2022, 120-146, Online ISSN 2559 – 1061.

2021 ***5.*** *Behavior of plants and microorganisms in the presence of inorganic pollutants*,
Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu**,** ***Annals of the Academy of Romanian Scientists, Series on Physics and Chemistry Sciences*****,** ISSN 2559-1061 Volume 6, Number 2/**2021**

2020 ***6.*** *Influence of heavy metals phytotoxicity on seed germination and plants growth*,
Mihaela Roșca, Elena-Diana Comăniță Ungureanu, Raluca-Maria Hlihor, Mariana Diaconu, **Petronela Cozma**, Maria Gavrilescu,
Annals of the Academy of Romanian Scientists, Online Edition Series on Chemistry Sciences, Volume 5, Number 2/**2020**, ISSN 2393-2902

7. *Sustainable alternatives for hazardous waste management*,
Tania Vrânceanu, Elena-Diana Comăniță Ungureanu, Ersilia Lazăr Coșbuc, **Petronela Cozma**, Daniela Ionela Tudorache, Dan-Alexandru Gavrilescu, Maria Gavrilescu,
Annals of the Academy of Romanian Scientists, Online Edition Series on Chemistry Sciences, Volume 5, Number 2/**2020**, ISSN 2393-2902

2019 ***8.*** *Statistical analysis of some heavy metals toxicity on plants used in phytoremediation*,
Cristina Ghinea, Mihaela Roșca, **Petronela Cozma**, Elena-Diana Comăniță Ungureanu, Mariana Minuț, Camelia Smaranda, Mariana Diaconu, Maria Gavrilescu, ***Annals of the Academy of Romanian Scientists. Series on Physics and Chemistry Sciences***, 2559-1061, vol. 4, nr. 2, (2019), 53-68

9. *Potential of plants for the bioremediation of soils contaminated with persistent pollutants,*
Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu, ***ECOTERRA***, 1584-7071, vol. 16, nr. 2, (2019), 17-28.

10. *An approach towards modelling the human health risks posed by pesticides residues in lettuce*,
Hlihor Raluca-Maria, Paiu Maria, **Cozma Petronela**, Favier Lidia, Stoleru Vasile, Gavrilescu Maria,
Proceedings of the International Scientific Congress "Life sciences, a challenge for the future" 17th-18th October 2019, Iasi, Romania, FILODIRITTO INTERNATIONAL PROCEEDINGS, ISBN 978-88-85813-63-2 **(2019)**

2017 ***11.*** *Application of cost-benefit analysis for an eco-product manufactured from production waste*,
Elena-Diana Comăniță, Isabela Maria Simion, **Petronela Cozma**, Raluca Maria Hlihor, Teofil Campean, Maria Gavrilescu,
International Proceedings of Chemical, Biological and Environmental Engineering, V0l. 101 91-98, (2017), DOI: 10.7763/IPCBEE. 2017.

12. *Dissipation behavior of pesticides applied in multiple treatments in apples,*
Raluca Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu*,* ***Lucrări Ştiinţifice Seria Horticultură,*** **60 (1/2)**, (2017), 73-82, USAMV IAŞI.

13. *The potential of some indigenous microorganisms and plants for the removal of heavy metals from soil,*
Mihaela Roşca, Raluca-Maria Hlihor, Elena-Diana Comăniţă, **Petronela Cozma**, Isabela-Maria Simion, Maria Gavrilescu
Lucrări Ştiinţifice Seria Horticultură, **60 (1/2)**, (2017), 65-72, USAMV IAŞI.

14. *Tools for the characterization of pesticide risk in food products. An overview,*
Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu
International Proceedings of Chemical, Biological and Environmental Engineering, **101,** 75-83, (2017), ISSN: 2010-4618, DOI: 10.7763/IPCBEE.2017.V101.11.

15. *Assessment of human health risk of twelve pesticides applied in double dose in an apple orchard,*
Raluca Maria Hlihor, Manuela Olga Pogăcean**,** Isabela Maria Simion, **Petronela Cozma**, Laura Carmen Apostol, Maria Gavrilescu
Annals of the Academy of Romanian Scientists, Series on Physics and Chemistry, **1(1),** 25-35, (2016).

2016 ***16.*** *Evaluation of solid waste management scenarios using Analytic Hierarchy Process (AHP) Technique,*
Cristina Ghinea, Diana Elena Comăniță, **Petronela Cozma**, Hans Th. A. Bressers, Maria Gavrilescu*,*
Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, LX(LXIV), *(*3-4), 81-89. (2014).

2014 ***17.*** *Biogas upgrading using water scrubbing technology*,
Petronela Cozma, Walter Wukovits, Anton Friedl, Maria Gavrilescu,
***Bulletin of the Polytechnic Institute of Jassy*, Tome LVIII (LXII)**, **Fasc. 1**, (2012), 58-73.

2012 ***18.*** *Pneumatic (bio)reactors applied in environmental protection,*
Petronela Cozma, Maria Gavrilescu,
Bulletin of the Polytechnic Institute of Jassy, **Tome LVI (LX)**, **Fasc. 2**, (2010), 57-76.

2010 ***19.*** *Removal of CO_2 from gas streams in airlift reactors,*
Petronela Cozma, Maria Gavrilescu,
Bulletin of the Polytechnic Institute of Jassy, **Tome 56(4)**, (2010), 149-160.

20. *Thermodynamic study of Cd(II) sorption on soil,*
Raluca-Maria Hlihor, **Petronela Cozma**, Cristina Ghinea, Vasile Lucian Pavel, Brînduşa Mihaela Robu, Maria Gavrilescu,
Scientific papers - Agronomy Series, **53(2)**, „Ion Ionescu de la Brad", University of Agricultural Sciences and Veterinary Medicine, „Ion Ionescu de la Brad" Publishing House", 92-95, (2010), ISSN 1454-7414.

Papers published in Conference and Symposia Proceedings

ISI Proceedings

2022 ***1.*** Effects of Ni(II), Co(II), Cu(II), Zn(II) Metal Ions on the Growth and Development of Alfalfa (*Medicago sativa* L.) in Agricultural Soil,
Ionela-Catalina Vasilachi, Razvan Andrei Hutuliac, Maria Paiu, Mariana Minut, **Petronela Cozma**, Elena-Diana Comanita-Ungureanu, Maria Gavrilescu
2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991494.

2021 ***2.*** *Coupling phytoremediation with plant biomass valorisation and metal recovery: an overview*
Petronela Cozma, Raluca-Maria Hlihor, Mihaela Roșca, Mariana Minuț, Mariana Diaconu, Maria Gavrilescu
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657551.

3. *Progress in microbial bioremediation of industrial effluents using different bioreactors design: an overview*,
Petronela Cozma, Raluca-Maria Hlihor, Mihaela Rosca, Isabela-Maria Simion, Maria Apostol, Maria Gavrilescu
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657749.

4. *Wastewaters contamination with persistent pollutants and their removal by biosorption*
Raluca Maria Hlihor, Mihaela Roșca, Cătălina Filote, Isabela Maria Simion, **Petronela Cozma**, Maria Apostol, Gabriela Irina Cara, Maria Gavilescu
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657662.

5. *Recovery of valuable heavy metals from polluted soil using phytomining process - a new challenge for earning secondary raw materials and health risk reduction*,
Mariana Minuţ, **Petronela Cozma**, Mihaela Roșca, Ionela Cătălina Vasilachi, Raluca Maria Hlihor, Mariana Diaconu, Maria Gavrilescu
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657624.

6. *Scaling-up strategies of heavy metals microbial bioremediation*,
Mihaela Roșca, Raluca Maria Hlihor, **Petronela Cozma**, Isabela Maria Simion, Cătălina Filote, Codrina Grecu, Vasile Stoleru, Maria Gavrilescu
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657641.

7. *Sustainable cost indicators used in biosorption process applied for heavy metals removal*,
Isabela Maria Simion, Raluca Maria Hlihor, Mihaela Roșca, Cătălina Filote, **Petronela Cozma**
2021 International Conference on e-Health and Bioengineering (EHB), 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657738

2020 ***8.*** *Toxicity and microbial bioremediation of chromium contaminated effluents,*
Mariana Diaconu, Mihaela Roșca, **Petronela Cozma**, Mariana Minuț, Camelia Smaranda, Raluca-Maria Hlihor, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280160

9. *Prediction of Equillibrium Sorption Isotherm for Cadmium Biosorption by Microorganisms: Comparison of Linear and Nonlinear Methods*
Mihaela Roșca, Mariana Diaconu, Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280180

10. *The Beneficial Role of Some Microorganism in Soil Phytoremediation and Mitigation of Health Risk*
Mariana Minuţ, Mihaela Roșca, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu, ***The 8th IEEE***

International Conference on E-Health and Bioengineering - EHB 2020, pp.1-4, doi: 10.1109/EHB50910.2020.9280178

11. *Human Risks Generated by the Bioaccumulation of Pollutants in Cereals and their Consumption*
Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, **Petronela Cozma**, Camelia Smaranda, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280208

12. *Identification and Valorization of Agri-Food By-Products: An Overview*
Petronela Cozma, Nicoleta Ioana Ciomaga, Raluca-Maria Hlihor, Mihaela Roșca, Mariana Minuț, Camelia Smaranda, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280290

13. *Reducing health and ecological risks by using WEEE as secondary sources for critical raw materials*
Simona Cecilia Ghiga, Mihaela David, Mariana Minuț, Elena-Diana Comanita-Ungureanu, **Petronela Cozma**, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, DOI: 10.1109/EHB50910.2020.9280253

14. *Pesticides in the environment and harmonized risk indicators*
Ionela Cătălina Vasilachi, Larisa Tapciuc, Gina Mihaela Finaru Chelaru, Dana-Mihaela Asiminicesei, Mihaela Rosca, **Petronela Cozma**, Elena-Diana Comanita-Ungureanu, Camelia Smaranda, Raluca-Maria Hlihor, Daniela-Ionela Fertu, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280252

15. *Human health risks concerning food waste management*
Elena-Diana Ungureanu-Comanita, Ersilia Lazar Cosbuc, **Petronela Cozma**, Camelia Smaranda, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280256

16. *Human health risk associated with the use of products from contaminated medicinal plants*
Dana-Mihaela Asiminicesei, Ionela Catalina Vasilachi, Mariana Minut, Mihaela Rosca, **Petronela Cozma**, Raluca-Maria Hlihor, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280286

17. *Studies on Physiological Response of Sinapis alba Plants to Organochlorinated Pesticide Toxicity*
Camelia Smaranda, Mihaela Rosca, Mariana Minut, Diana Elena Comanita-Ungureanu, **Petronela Cozma**, Cezar Catrinescu, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280260

18. *Equilibrium studies on the sorption of organochlorine pesticide in agricultural soil*
Camelia Smaranda, Mihaela Rosca, Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Diana Elena Comanita-Ungureanu, **Petronela Cozma**, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, pp.1-4, doi: 10.1109/EHB50910.2020.9280210

19. *Medicinal plants: linking herbs contamination with human health risks,* Dana Mihaela Asiminicesei; Raluca-Maria Hlihor; **Petronela Cozm**a; Maria Apostol; Isabela Maria Simion; Mihaela Roșca, Maria Gavrilescu, ***The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020***, doi: 10.1109/EHB50910.2020.9280197

2019 ***20.*** *Ecological risk assessment of nickel in soil and the effects on the Brassica Napus growth*,
Mihaela Roşca**, Petronela Cozma**, Mariana Minuț, Dana Mihaela Asiminicesei, Camelia Smaranda, Mariana Diaconu, Maria Gavrilescu, ***2019 E-Health and Bioengineering Conference (EHB)***, Iasi, Romania, 2019, pp. 1-4, doi: 10.1109/EHB47216.2019.8970022.

21. *Ecological and human health risks generated by organic UV filters*,
Mariana Minuț, Mihaela Rosca, **Petronela Cozma**, Cezar Catrinescu, Maria Gavrilescu,
2019 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2019, pp. 1-4, doi: 10.1109/EHB47216.2019.8970019.

22. *Influence of cadmium and lead ions toxicity on lettuce seeds germination: a preliminary analysis,*
Petronela Cozma, Dana-Mihaela Asiminicesei, Raluca-Maria Hlihor, Mihaela Rosca, Maria Gavrilescu
2019 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2019, pp. 1-4, doi: 10.1109/EHB47216.2019.8969968.

2017 ***23.*** *Overview of human health hazards posed by pesticides in plant products*
Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu
E-Health and Bioengineering Conference (EHB), ISBN: 978-1-5386-0358-1, pp. 293-296, (2017), DOI: 10.1109/EHB.2017.7995419.

24. *Life cycle assessment of paper manufacturing: environmental and human health impacts*
Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, **Petronela Cozma,**
Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilescu
E-Health and Bioengineering Conference (EHB), ISBN: 978-1-5386-0358-1, pp. 313-316, (2017), DOI: 10.1109/EHB.2017.7995424.

2015 ***25.*** *Potential of biosorption and bioaccumulation processes for heavy metals removal in bioreactors,*
Mihaela Rosca, Raluca-Maria Hlihor, **Petronela Cozma**, Elena-Diana Comăniță, Isabela Maria Simion, Maria Gavrilescu, ***E-Health and Bioengineering Conference (EHB), ISBN: 978-1-4673-7544-3***, (2015), pp. 1-4, DOI: 10.1109/EHB.2015.7391487.

National and International Conferences (peer reviewed)

2010 ***1.*** *Airlift bioreactors for pulp and paper effluents treatment and management,*
Petronela Cozma, Maria Gavrilescu,
Proceedings of the 14th International Symposium on Cellulose Chemistry and Technology, 8-10 September, (2010), Iasi, Romania, 226-231, ISBN 978-973-621-306-9.

Books/Book chapters

2024 ***1.*** Camelia Betianu, **Petronela Cozma**, Maria Gavrilescu,
Human Health Hazards and Risks Generated by the Bioaccumulation of Lead from the Environment in the Food Chain, In: *Lead Toxicity Mitigation: Sustainable Nexus Approaches, Environmental Contamination Remediation and Management*, N. Kumar and A. K. Jha (eds.), https://doi.org/10.1007/978-3-031-46146-0_5, Online ISBN 978-3-031-46146-0, **Springer Cham**, Switzerland, **2024**.

2. Mihaela Rosca, **Petronela Cozma**, Maria Gavrilescu,
Mathematical Modeling of Microbial Bioremediation: A Key Step in Process Scale-Up, In: *Biosorption Processes for Heavy Metal Removal*, https://doi.org/10.4018/979-8-3693-1618-4.ch005, Pinki Saini (ed.), ISBN 9798369316184, **IGI Global,** Hershey, Pennsylvania New York**, 2024**.

2022 ***3.*** Raluca-Maria Hlihor, Isabela Maria Simion, Catalina Filote, Mihaela Rosca, **Petronela Cozma**, Maria Apostol, Maria Gavrilescu
Exploitation of environmentally friendly technologies to remove persistent pollutants from wastewater (In Romanian, Exploatarea tehnologiilor prietenoase cu mediul in vederea indepartarii poluantilor persistenti din apele uzate), Editura „Ion Ionescu de la Brad", Iasi, **2022**, ISBN 978-973-147-463-2

4. *Removal of heavy metals from the environment by phytoremediation and microbial remediation*
Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu
In: *Sustainable Solutions for Environmental Pollution: Air, Water and Soil Reclamation*, vol. 2, Nour Shafik El Gendy (Ed.), Wiley – Scrivener Publishing, Beverly, Massachussets, USA, 95-146, 2022, ISBN 9781119827511, https://doi.org/10.1002/9781119827665.ch2.

2019 ***5.*** *Exploring and exploiting the abilities of microorganisms, plants and their interactions for environmental bioremediation* (in Romanian), Maria Gavrilescu (coordinator), Mariana Diaconu, Laura Bulgariu, Irina Volf, Cezar Catrinescu, Camelia Smaranda, **Petronela Cozma**, Raluca-Maria Hlihor, Cristina Ghinea, Laura Carmen Apostol, Elena-Diana Comăniță, Mihaeala Roșca, Sebastian Ionuț Vasilica, Editura Performantica, **(2019), ISBN: 978-606-685-690-4, 247 pag.**

2018 ***6.*** *Modelling pesticide dynamics in vegetabkes and assessment of human health risks,* (in Romanian)
Raluca-Maria Hlihor, Maria Gavrilescu (Eds.), Manuela Olga Pogacean, Marius Gavrilescu, **Petronela Cozma**, Isabela Maria Simion, Mihaela Rosca, POLITEHNIUM Publishing House, (2018), **ISBN: 978-973-621-477-6**, 205 pags.

7. *Strategies and solutions for eco-innovation of processes and products from recyclable materials in the context of the circular economy. Good Practice Guide* (in Romanian)
Maria Gavrilescu, Crețescu Igor, Teodor Măluțan, Adrian Puițel, Camelia Smaranda, **Petronela Cozma**, Raluca-Maria Hlihor, Cristina Ghinea, Isabela-Maria Simion, Elena-Diana Comăniță, Mihaela Roșca, Teofil Câmpean, POLITEHNIUM Publishing House, (2018), **ISBN: 978-973-621-481-3**, 300 pags.

2016 ***8.*** *Chapter 7. Biosystems and bioreactors for biosorption and bioaccumulation,* In: *Biosorption and Bioaccumulation - Principles and Applications in Environmental Bioremediation,*
Petronela Cozma, Raluca-Maria Hlihor, Laura Carmen Apostol, Maria Gavrilescu, POLITEHNIUM Publishing House, (2016), ISBN: 978-973-621-457-8, **28 pags**.

9. *Chapter 8. Models and predictability, application and reliability*, In: *Biosorption and Bioaccumulation - Principles and Applications in Environmental Bioremediation*,
Petronela Cozma, Isabela Maria Simion, Maria Emiliana Fortuna, Maria Gavrilescu, POLITEHNIUM Publishing House, (2016), ISBN: 978-973-621-457-8, **17 pags**.

2014 ***10.*** *Key features of contaminated soils,*
Petronela Cozma, Maria Gavrilescu, *In: Contaminated soils: A guide to sampling and analysis*, February 2014, Pages 6-17, Doi: 10.4155/ebo.13.534.

Manuals/Courses/Seminars/Laboratories (ON LINE)

1. *Sustainable Industrial Production*

Maria Gavrilescu, **Petronela Cozma**, Camelia Smaranda
Laboratory works for Master Students involved in the specialization "Environmental Management and Sustainable Energy", "Gheorghe Asachi" Technical University of Iasi, Romania,
On-line at: http://persenvir.xhost.ro/mgav/ (password required)
https://teams.microsoft.com/l/team/19%3a632dd4623dc1427c8e23f0d3b9cfe95a%40thread.tacv2/conversations?groupId=d2efd428-a1a4-4dec-a8df-6b2a3617b8cf&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

2. *Sustainable Industrial Production* (in Romanian)
Petronela Cozma, Maria Gavrilescu
Project for Master Students involved in the specialization "Environmental Management, "Gheorghe Asachi" Technical University of Iasi, Romania, On line at:
https://teams.microsoft.com/l/team/19%3a7b40771a706e400c8c24450030ae9226%40thread.tacv2/conversations?groupId=4339f660-7575-42f8-8fda-1964347a3b6e&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

3. *Ethics and Integrity*
Petronela Cozma
Courses and seminars for Master Students involved in the specialization "Environmental Management and Sustainable Energy", "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at:
https://teams.microsoft.com/l/team/19%3af34f41f0b9854f999887e268d92cdcd3%40thread.tacv2/conversations?groupId=9336008d-aa65-484d-815c-6d1afd043c1c&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

4. *Sources of Radiation and Protection Technologies* (in Romanian)
Petronela Cozma, Igor Cretescu
Laboratory works for Bachelor Students involved in the specialization "Environmental Engineering", Gheorghe Asachi" Technical University of Iasi, Romania,
https://teams.microsoft.com/l/team/19%3af6546f5f94c54ba3aa26911bb8010896%40thread.tacv2/conversations?groupId=2f771ca4-d21d-448e-89be-6270b5a5c9bc&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

5. *Risk Assessment and Management* (in Romanian)
Petronela Cozma, Maria Gavrilescu
Laboratory for Master Students involved in the specialization "Environmental Management", "Gheorghe Asachi" Technical University of Iasi, Romania, On line at:
https://teams.microsoft.com/l/team/19%3a8e1d4c4724754cb7a07fbb1ac5f6f72e%40thread.tacv2/conversations?groupId=5c98677f-0d77-4ff8-bcc1-21fe6cf621f7&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

6. *Interpersonal Relationship Management* (in Romanian)
Petronela Cozma
Seminars for Master Students involved in the specialization "Environmental Management", "Gheorghe Asachi" Technical University of Iasi, Romania, On line at:
https://teams.microsoft.com/l/team/19%3ac4f77bc469374fde8c8cd70be99e8f7c%40thread.tacv2/conversations?groupId=fc4a0aa5-92a3-4823-b178-dfde41bbafb3&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

7. *Technologies to acquire, monitor and diagnose the quality of the environment* (in Romanian)
Petronela Cozma, Igor Cretescu
Laboratory works for Bachelor Students involved in the specialization "Environmental Engineering", Gheorghe Asachi" Technical University of Iasi, Romania, On line at:
https://teams.microsoft.com/l/team/19%3a968ec052a07f48b49ae581be28b582ba%40thread.tacv2/conversations?groupId=780405a2-73ad-465e-92c7-7b296db7d70b&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

Oral Communications and Posters

International conferences and symposia

2026 *From gray water to green solutions: Life Cycle Sustainability Assessment of heavy metals removal using inactive yeast*
Isabela Maria Simion, Raluca-Maria Hlihor, **Petronela Cozma**, Alessandra Bonoli
The 1st International Online Conference on Environments (2–3 March 2026, online)
Poster presentation

2025 *Valuable and Critical Elements Recovery from Waste Streams: Progress, Methods, and Perspectives*
Ana Maria Lupu, **Petronela Cozma**, Brindusa Sluser
13th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 17-20 September 2025, Iasi, Romania
Oral presentation
Sustainable Solutions for Food Waste Valorization: Pathways to Recover Bioactive Compounds and Nutrients
Paula-Sânziana Oprea, Elena-Diana Comăniță-Ungureanu, **Petronela Cozma**, Maria Gavrilescu
13th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 17-20 September 2025, Iasi, Romania
Poster presentation
Phytoremediation of Heavy Metal-Contaminated Soils by Rapeseed (Brassica Napus L.)
Petronela Cozma, Raluca-Maria Hlihor, Maria Paiu, Maria Gavrilescu
13th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy

and Sustainability, 17-20 September 2025, Iasi, Romania
Poster presentation
Green Transformation In Tourism: Eco-Innovation Adoption And Sustainability Performance Across Europe
Raluca-Maria Ţâbuleac, Tiberiu Vlad Simion, Elena-Diana Comăniţă-Ungureanu, **Petronela Cozma**, Camelia Betianu, Isabela Maria Simion, Maria Gavrilescu
13th International Conference On Environmental Engineering And Management (ICEEM), Circular Economy And Sustainability, 17-20 September 2025, Iasi, Romania
Poster Presentation
From Seed to Stress: Basil's Ecotoxicological Response to Individual and Combined Pb^{2+} and Cd^{2+} Exposure During Early Development
Hlihor Raluca-Maria, Simion Isabela-Maria, Apostol Maria, **Cozma Petronela**
12th International Congress "Life Sciences Today For Tomorrow", 23-24 October 2025, Iasi
Poster Presentation

2024 *Assessment of rapeseed (Brassica napus L.) efficiency for phytoremediation of heavy metals contaminated soils,*
Petronela Cozma, Mariana Minuţ, Mihaela Roşca, Raluca-Maria Hlihor, Maria Paiu, Ionela-Cătălina Vasilachi-Mitoseru, Maria Gavrilescu
The 3rd International Electronic Conference on Processes, ECP 2024, 29-31 May 2024, Online conference
Oral presentation
Successful application of the biosorption process in wastewater treatment: insights of bacterial biomass use to assess the process environmental impacts,
Raluca Maria Hlihor, Isabela Maria Simion, Catalina Filote , **Petronela Cozma**, Alessandra Bonoli
The 5th International Electronic Conference on Applied Sciences (ASEC 2024), 4-6 December 2024, Online
Poster
Advances in the implementation of microbial biomass for the bioremediation of heavy metal-contaminated effluents
Raluca Maria Hlihor, Mihaela Roşca, Isabela Simion, Petronela Cozma, Lidia Favier, Maria Gavrilescu
The 1st International Online Conference on Bioengineering, march 2024, online
Oral presentation

2023 *Evidence of Sinapis alba l. tolerance and accumulation of Cu(II), Co(II), Ni(ii) and Zn(II) from polluted soils*, Raluca-Maria Ţâbuleac, **Petronela Cozma**, Mariana Minuţ, Mihaela Roşca, Raluca-Maria Hlihor, Maria Paiu, Ionela-Cătălina Vasilachi, Diana-Elena Ungureanu-Comăniţă, Maria Gavrilescu,
12th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 13-16 September 2023, Iasi, Romania
Poster
Identification of food wasting behaviour of consumers based on questionnaires,
Paula-Sânziana Oprea, Elena-Diana Comăniţă-Ungureanu, **Petronela Cozma**, Maria Gavrilescu
12th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 13-16 September 2023, Iasi, Romania
Poster
Ensuring secure and sustainable supply chain of critical raw materials in industrial systems,
Petronela Cozma, Maria Paiu, Ionela-Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minuţ, Elena-Diana Comăniţă-Ungureanu, Mariana Diaconu, Maria Gavrilescu
12th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 13-16 September 2023, Iasi, Romania
Poster
Strategies and tools applied for ensuring sustainability in tourism industry,
Raluca-Maria Ţâbuleac, Elena-Diana Comăniţă-Ungureanu, **Petronela Cozma**, Maria Gavrilescu
12th International Conference on Environmental Engineering and Management (ICEEM), Circular Economy and Sustainability, 13-16 September 2023, Iasi, Romania
Poster
Tolerance of White Mustard (Sinapis Alba L.) to Soil Polluted with Co(II), Cu(II), Ni(II) and Zn(II),
Petronela Cozma, Mariana Minuţ, Mihaela Roşca, Raluca-Maria Hlihor, Maria Paiu, Ionela-Cătălina Vasilachi, Diana-Elena Ungureanu-Comăniţă, Maria Gavrilescu
Virtual International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering", NanoBioMat 2023 – Summer Edition, 28-30 June 2023
Oral presentation
Studies on the Behavior of Rapeseed (Brassica Napus L.) Growing on Soil Polluted with Cadmium Ions.
Mariana Minuţ, Mihaela Roşca, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu,
Virtual International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering", NanoBioMat 2023 – Summer Edition, 28-30 June 2023
Poster

2022

Integrating environmental bioremediation with biomass valorization and critical raw materials recovery by phytomining (Phytomin)
Maria Gavrilescu, Laura Bulgariu, Dan Alexandru Gavrilescu, Mariana Diaconu, **Petronela Cozma**, Raluca-

Maria Hlihor, Isabela-Maria Simion, Elena-Diana Ungureanu-Comăniță, Maria Apostol, Mariana Minuț, Ionela Cătălina Vasilachi, Maria Paiu
European Exhibition of Creativity and Innovation, 14th Edition of EUROINVENT, 26-28 Mai 2022, Palace of Culture, Iasi, Romania
Poster
*Evaluation of Sustainability of Eco-friendly Processes Used in Wastewater Treatment based on an Integrated Environmental and Economic Assessment Approach (SusTrEE)***,**
Raluca Maria Hlihor, Isabela Maria Simion, Cătălina Filote, Mihaela Roșca, **Petronela Cozma**, Maria Apostol, Maria Gavrilescu,
14th European Exhibition of Creativity and Innovation, EUROINVENT, *26-28 Mai 2022, Iași, România*
Poster
Studies on the behavior of Brassica napus L. cultivated on cadmium polluted soil
Mariana Minuţ, Mihaela Roşca, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu
5th International Conference of the Doctoral School (Universitatea Tehnică "Gheorghe Asachi" din Iasi), *May 18 - 20, 2022, Iaşi, România*
Comunicare orală
Effects of metals stress on the development and grow of Sinapis alba (white mustard) in urban soils
Petronela Cozma, Mariana Minut, Maria Paiu, Raluca-Maria Hlihor, Mihaela Rosca, Maria Gavrilescu
17th International Conference of CONSTRUCTIVE DESIGN AND TECHNOLOGICAL OPTIMIZATION IN MACHINE BUILDING FIELD (OPROTEH-2022), 25-27 May 2022, Bacau, Romania
Poster
Behaviour of Medicago sativa L. (alfalfa) in the presence of cobalt ions: A preliminary approach
Mariana Minuţ, **Petronela Cozma**, Mihaela Roşca, Mariana Diaconu, Maria Gavrilescu
17th International Conference of CONSTRUCTIVE DESIGN AND TECHNOLOGICAL OPTIMIZATION IN MACHINE BUILDING FIELD (OPROTEH-2022), 25-27 May 2022, Bacau, Romania
Poster
Statistical analysis and optimization of lead biosorption from wastewater by non-viable biomass of Arthrobacter viscosus,
Petronela Cozma, Mihaela Roșca, Raluca-Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu,
În The 17th International Conference of Constructive Design and Technological Optimization in Machine Building (OPROTECH 2022), Publishing House "Alma Mater", *Bacău, România, 25-27 Mai 2022, ISSN 2457- 3388, 2022.*
Prezentare orala
Incorporation of microbial bioremediation in wastewater treatment plants flow for persistent pollutants removal,
Mihaela Roșca, Raluca-Maria Hlihor, Isabela Maria Simion, **Petronela Cozma**, Cătălina Filote,
În The 17th International Conference of Constructive Design and Technological Optimization in Machine Building (OPROTECH 2022), Publishing House "Alma Mater", *Bacău, România, 25-27 Mai 2022, ISSN 2457- 3388, 2022.*
Prezentare orala
Sustainability analysis of Cd(II) biosorption from wastewater using microbial biomass,
Cătălina Filote, Isabela Maria Simion, Mihaela Roșca, **Petronela Cozma**, Maria Apostol, Maria Gavrilescu, Raluca Maria Hlihor,
În The International Symposium present environment and sustainable development Book of Abstracts, *3 - 4 June 2022, Iași, România****,*** *http://www.pesd.ro/Symposium%20site/2022/Book-of-abstracts-PESD_2022_V5.pdf*
Prezentare orala
Artificial neural networks and response surface methodological approach for modelling of Cd(II) biosorption by different microbial biomasses,
Mihaela Roșca, Raluca Maria Hlihor, **Petronela Cozma**, Isabela Maria Simion, Cătălina Filote, Maria Gavrilescu,
5th International Conference on Green Chemistry and Sustainable Engineering (GREENCHEM-22)*, 20 – 22 Iulie 2022, Roma, Italia, Comunicare orală, ISBN 978-84-09-42560-0, 2022.*
https://scik.eu/Rome2022//Congres/green22/Pag.009%20Artificial%20neural%20networks%20and%20response%20surface%20methodological%20approach%20for%20modelling%20of%20Cd(II)%20biosorption%20by%20different%20microbial%20biomasses%20(M.%20Rosca).pdf
Prezentare orala
Kinetic, equilibrium and thermodynamic studies of cadmium (II) biosorption by microbial biomass from synthetic wastewater,
Petronela Cozma, Raluca Maria Hlihor, Mihaela Roșca, Isabela Maria Simion, Maria Gavrilescu,
5th International Conference on Green Chemistry and Sustainable Engineering (GREENCHEM-22)*, 20 – 22 Iulie 2022, Roma, Italia,*
https://scik.eu/Rome2022//Congres/green22/Pag.041%20Kinetic,%20Equilibrium%20and%20Thermodynamic%20Studies%20of%20Cadmium%20(II)%20biosorption%20by%20microbial%20biomass%20from%20synthetic%20wastewater%20(M.%20Rosca).pdf
Poster
A comparative assessment of Cd(II) and Cr(VI) bioaccumulation by microbial biomass of Trichoderma viride,
Raluca Maria Hlihor, Mihaela Roșca, Cătălina Filote, Isabela Maria Simion, **Petronela Cozma**, Maria

Apostol, Maria Gavrilescu,
***5th International Conference on Green Chemistry and Sustainable Engineering (GREENCHEM-22)**, 20 – 22 Iulie 2022, Roma, Italia.*
https://scik.eu/Rome2022//Congres/green22/Pag.001%20A%20comparative%20assessment%20of%20Cd(II)%20and%20Cr(VI)%20bioaccumulation%20by%20microbial%20biomass%20of%20Trichoderma%20viride%20C.%20Filote.pdf
Poster
A comparative study of the linear and non-linear methods for determination of the optimum equilibrium isotherm for Pb(II) and Cd(II) biosorption onto bacterial biomass,
Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Isabela-Maria Simion, Cătălina Filote,
***UEB – 2022 International conference "Ecologia secolului XXI – Un singur pământ" Secțiunea Științe naturale și Ecologie „Conservarea patrimoniului natural și cultural"**, 7 Aprilie 2022, București, România, Conferință online,*
Comunicare orală
Empirical modelling and optimization of cadmium and hexavalent chromium biosorption by fungal biomass, Mihaela Roșca, Raluca Maria Hlihor, **Petronela Cozma**, Isabela Maria Simion, Cătălina Filote,
***18TH International conference of young scientists on energy and natural sciences issues**, 24-27 Mai, 2022, Conferință online,*
Comunicare orală
Sustainability analysis of Cd(II) biosorption from wastewater using microbial biomass,
Cătălina Filote, Isabela Maria Simion, Mihaela Roșca, **Petronela Cozma**, Maria Apostol, Maria Gavrilescu, Raluca Maria Hlihor,
***International Symposium present environment and sustainable development** Faculty of Geography and Geology, "Alexandru Ioan Cuza" University from Iași, 3 - 4 Iunie 2022, Iași, România,* **Poster**
Statistical and soft computing approaches for the evaluation and optimization of bioremediation processes, Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Isabela-Maria Simion, Maria Gavrilescu,
***Applications of Chemistry in Nanosciences and Biomaterials Engineering, NanoBioMat 2022 – Summer Edition**, 22 - 24 Iunie 2022, Iași, România, Conferință online*
Comunicare orală
The potential of alfalfa (Medicago sativa L.) in phytoremediation of soil contaminated with copper ions
Ionela Catalina Vasilachi, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu
International Conference of "Applications of Chemistry in Nanosciences and Biomaterials Engineering", NanoBioMat 2022, 22-24 June 2022, Online Conference, Iasi, Romania
Poster
Efects of Heavy Metals Stress on the Growth and Development of Brassica Napus (Rapeseed) at Laboratory Scale
Maria Paiu, **Petronela Cozma**, Ionela Cătălina Vasilachi, Mariana Minuț, Mariana Diaconu, Maria Gavrilescu
International Conference of "Applications of Chemistry in Nanosciences and Biomaterials Engineering", NanoBioMat 2022, 22-24 June 2022, Online Conference, Iasi, Romania
Poster
Use of response surface methodology and artificial neural network approach for empirical modelling and optimization of Cr(VI) biosorption by microbial biomass,
Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Isabela-Maria Simion, Maria Gavrilescu,
***26th International Congress of Chemical and Process Engineering (CHISA 2022)**, 21-25 August 2022, Praga, Cehia*
Poster

2021 *Initial screening of biosorption process modelling and optimization for its industrial scale-up*, **(2021)**
Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Cătălina Filote, Isabela-Maria Simion, Maria Apostol, Maria Gavrilescu,
***Applications of Chemistry in Nanosciences and Biomaterials Engineering, International Scientific Conference**, Virtual Conference - Teams platform, 25-26 June 2021*
Prezentare orala
Nickel toxicity for Sinapis Alba L. plant and its phytoremediation potential for metal recovery, **(2021)**
Mariana Minuţ, Mihaela Roşca, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu,
***Applications of Chemistry in Nanosciences and Biomaterials Engineering, International Scientific Conference**, Virtual Conference - Teams platform, 25-26 June 2021*
Prezentare orala
Ecological risk assessment on heavy metals in soils: an overview, **(2021)**
Gina-Mihaela Finaru (Chelaru), **Petronela Cozma**, Camelia Smaranda, Ioan Mamaliga, Maria Gavrilescu
***Applications of Chemistry in Nanosciences and Biomaterials Engineering, International Scientific Conference**, Virtual Conference - Teams platform, 25-26 June 2021*
Prezentare orala
Investigation of chemical stress generated by lead on the growth and physiology of Zea Mays L, **(2021)**
Ionela Cătălina Vasilachi, Dana Mihaela Asiminicesei, Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Camelia Smaranda, Maria Gavrilescu
***Applications of Chemistry in Nanosciences and Biomaterials Engineering, International Scientific Conference, Virtual Conference** - Teams platform, 25-26 June 2021*

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Phytomining of heavy metals from contaminated soils: a green technology, **(2021)**
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2020 *Using bacteria to enhance the phytoremediation process applied to soils polluted with inorganic pollutants*, Mariana Minuț, Mihaela Roșca, Mariana Diaconu, **Petronela Cozma**, Maria Gavrilescu,
International Chemical Engineering and Material Symposium, SICHEM 2020, 17-18 September 2020.
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Mariana Diaconu, Mihaela Roșca, **Petronela Cozma**, Mariana Minuț, Camelia Smaranda, Raluca-Maria Hlihor, Maria Gavrilescu,
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The beneficial role of some microorganism in soil phytoremediation and mitigation of health risk,
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Ionela Catalina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, **Petronela Cozma**, Camelia Smaranda, Maria Gavrilescu,
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Identification and valorization of agri-food by-products: an overview,
Petronela Cozma, Nicoleta Ioana Ciomaga, Raluca-Maria Hlihor, Mihaela Roșca, Mariana Minuț, Camelia Smaranda, Maria Gavrilescu,
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Pesticides in the environment and harmonized risk indicators,
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Elena-Diana Ungureanu-Comanita, Ersilia Lazar Cosbuc, **Petronela Cozma**, Camelia Smaranda, Maria Gavrilescu,
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Human health risk associated with the use of products from contaminated medicinal plants,
Dana-Mihaela Asiminicesei, Ionela Catalina Vasilachi, Mariana Minut, Mihaela Rosca, **Petronela Cozma**, Raluca-Maria Hlihor, Maria Gavrilescu,
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Studies on physiological response of Sinapis alba Plants to organochlorinated pesticide toxicity,
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Diana Elena Comanita-Ungureanu, **Petronela Cozma**, Maria Gavrilescu,
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Reducing Health and ecological risks by using weee as secondary sources for critical raw materials, Simona Cecilia Ghiga, Mihaela David, Mariana Minuț, Elena-Diana Comanita-Ungureanu, **Petronela Cozma**, Maria Gavrilescu,
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2019 *Effects induced by heavy metals stress on seedlings development of lettuce,*
Dana-Mihaela Asiminicesei, Raluca Maria-Hlihor, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu,
640th International Conference on Environmental Science and Development (ICESD), 20th - 21st July 2019, Rome, Italy
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*Ecological and human health risks generated by organic UV filter***,**
Mariana Minuț, Mihaela Rosca, **Petronela Cozma**, Cezar Catrinescu, Maria Gavrilescu,
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Influence of cadmium and lead ions toxicity on lettuce seeds germination: a preliminary analysis,
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Ecological risk assessment of nickel in soil and the effects on the Brassica napus growth,
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Environmental bioremediation by plants and microorganisms,
Maria Gavrilescu, Mihaela Roșca, Diana-Elena Comăniță, Raluca Maria Hlihor, **Petronela Cozma**, Mariana Diaconu,
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Development of Brassica napus under the stress of cadmium: An ecological risk approach,
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Evaluation of the phytotoxic effects on plants exposed to pesticides,
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Cumulative risk assessment of the intake of fruits and vegetables with multiple pesticides,
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Evaluation of the environmental impact of phytoremediation applied for the elimination of organic and inorganic polluants,

Elena-Diana Comăniță, Camelia Smaranda, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu,
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Equilibrium study of pentachlorophenol in soil matrix,
Camelia Smaranda, Mihaela Roșca, **Petronela Cozma**, Elena-Diana Comăniță, Maria Gavrilescu,
International Conference ICICH60, 9-11 octomber 2019, Chisinau, Republica Moldova
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Effect of lindane on photosynthetic pigments in Sinapis alba leaves,
Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Sebastian Vasilică, **Petronela Cozma**, Maria Gavrilescu,
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21 September, Iasi, Romania
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Phytotoxicity of Cd(II) ions on seed germination and growth of tested plants,
Petronela Cozma, Mihaela Roșca, Elena-Diana Comăniță, Sebastian-Ionuț Vasilică, Mariana Minuț, Dana Asiminicesei, Mariana Diaconu, Maria Gavrilescu,
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Life cycle assessment of soil phytoremediation,
Elena-Diana Comăniță, Cristina Ghinea, **Petronela Cozma**, Camelia Smaranda, Mihaela Roșca, Sebastian Ionut Vasilică, Maria Gavrilescu,
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Investigating the toxic effects of lindane on white mustard (Sinapis alba),
Sebastian Ionuț Vasilică, Mihaela Roșca, **Petronela Cozma**, Camelia Smaranda, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilescu,
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Evaluation of human health risk associated with the presence of pesticides in fruits and vegetables,
Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Raluca Maria Hlihor, Maria Gavrilescu,
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21 September, Iasi, Romania
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2018 *Kinetic modeling of metal uptake in phytoremediatiion*
Petronela Cozma, Sebastian I. Vasilică, Mihaela Roșca, Cristina Ghinea, Laura Carmen Apostol, Mariana Diaconu, Maria Gavrilescu
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.
Poster

Survey on pesticides used at national and international level and available technologies for the environmental remediation
M. Roșca, E.D. Comăniță, **P. Cozma**, R.M. Hlihor, M. Gavrilescu
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.
Poster

Behavior of Bacillus megaterium living biomass in a concentric-tube airlift bioreactor in the presence of cadmium ions
M. Roșca, T. Tavares, **P. Cozma**, M. Gavrilescu
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.

Poster

Evaluation of phytoremediation performance for the removal of heavy metals from the Environment by Life Cycle Assessment (LCA),
Elena-Diana Comăniță, Mihaela Roșca, **Petronela Cozma**, Camelia Smaranda, Sebastian Ionuț Vasilică, Maria Gavrilescu,
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.
Poster

Investigation of heavy metals toxic effects on White Mustard
Sebastian Ionuț Vasilică, Mihaela Roșca, Elena-Diana Comăniță, **Petronela Cozma**,
Mariana Diaconu, Maria Gavrilescu
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.
Oral presentation

Acute toxicity of heavy metals to various species of bacteria
Mariana Diaconu, Sebastian Ionuț Vasilică, Mihaela Roșca, **Petronela Cozma**, Elena Diana Comăniță, Camelia Smaranda, Raluca-Maria Hlihor, Maria Gavrilescu
4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, October 31 - November 2, 2018, "Gheorghe Asachi" Technical University of Iași, Romania.
Poster

Assessment of organochlorines pesticides phytotoxicity using seed germination and root elongation tests,
Mihela Roșca, S.I. Vasilică, **Petronela Cozma**, Elena-Diana Comăniță, M. Diaconu, C. Catrinescu, Maria Gavrilescu,
Fifth International Symposium on Green Chemistry, Development and Circular Economy, Skiathos, Greece, 30 September to October 03, 2018.
Poster

Evaluation of toxic potential of dairy and meat industry wastewaters: phytotoxicity study on weeds and crop plants,
Laura Carmen Apostol, S. Ropciuc, **Petronela Cozma,** Maria Gavrilescu.
Fifth International Symposium on Green Chemistry, Development and Circular Economy, Skiathos, Greece, 30 September to October 03, 2018.
Poster

Potential of living Rhodotorula sp. for cadmium ions removal from aqueos solutions,
Mihaela Rosca, Teresa Tavares, **Petronela Cozma**, Elena-Diana comanita, Maria Gavrilescu
4th International Conference on Green Chemistry and Sustainable Engineering 23th - 25th July, 2018, Madrid, Spain.
Poster

A comparison of two tools for assessing human health risks of pesticides in apples,
Raluca Maria Hlihor, Isabela Maria Simion, Manuela Olga Pogăcean, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu,
International Conference on Life Sciences, Section "Trends In European Agriculture Development", May 24-25, 2018, Timisoara, Romania.
Oral presentation

Short- and long-term exposure and associated human health risks to pesticide residues in tomatoes
Raluca Maria Hlihor, Isabela Maria Simion, Manuela Olga Pogăcean, **Petronela Cozma**, Mihaela Roșca, Maria Gavrilescu,
International Conference on Life Sciences, Section "Trends In European Agriculture Development", May 24-25, 2018, Timisoara, Romania.
Oral presentation

Probabilistic modelling of consumer exposure to pesticide residues in tomatoes,
Petronela Cozma, Marius Gavrilescu, Raluca-Maria Hlihor, Manuela Olga Pogăcean, Maria Gavrilescu
12th International Conference Environmental Legislation, Safety Engineering and Disaster Management ELSEDIMA 2018, 17 - 19 May 2018, Cluj-Napoca, Romania.
Poster

Life cycle assessment of different pallet types,
Cristina Ghinea, Elena Diana Comăniță, **Petronela Cozma**, Teofil Câmpean, Maria Gavrilescu
12th International Conference Environmental Legislation, Safety Engineering and Disaster Management ELSEDIMA 2018, 17-19 may, 2018, Cluj-Napoca, Romania.
Poster

Modelling acute and chronic risks of pesticides in sour cherries,
Isabela Maria Simion, Raluca Maria Hlihor, Manuela Olga Pogacean, Mihaela Rosca, **Petronela Cozma**, Maria Gavrilescu
SETAC Europe 28th Anuual Meeting, Responsible and Innovative Research for Environmental Quality, 13-17 May 2108, Roma, Italia.
Poster

Assessment of organochlorines pesticides phytotoxicity using seed germination and root elongation tests,
Mihaela Roșca, S.I. Vasilică, **Petronela Cozma**, Elena-Diana Comăniță, M. Diaconu, C. Catrinescu, Maria Gavrilescu
Fifth International Symposium on Green Chemistry, Development and Circular Economy, Skiathos, Greece, 30 September to October 03, 2018.
Poster

Evaluation of toxic potential of dairy and meat industry wastewaters: phytotoxicity study on weeds and crop plants,
L.C. Apostol, S. Ropciuc, **Petronela Cozma**, Maria Gavrilescu
Fifth International Symposium on Green Chemistry, Development and Circular Economy, Skiathos, Greece, 30 September to October 03, 2018.
Poster

2017 *Evaluation of bioremediation performance for removal of heavy metals from soils,*
Elena-Diana Comăniță, Isabela Maria Simion, Cristina Ghinea, **Petronela Cozma**,
Camelia Smaranda, Mihaela Roșca, Raluca Maria Hlihor, Maria Gavrilescu,
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers, 25-27 October 2017 Galați, Romania.
Poster

Synergistic interactions among plants and bacteria in the remediation of heavy metals contaminated soils,
Mihaela Roșca, Raluca Maria Hlihor, **Petronela Cozma**, Diana Elena Comăniță, Maria Gavrilescu
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers, *25-27 October 2017 Galați, Romania.*
Poster

Sustainability analysis of bioremediation and phytoremediation of persistent inorganic and organic compounds in the environment
Ghinea Cristina, Comaniță Elena-Diana, Apostol Laura Carmen, **Cozma Petronela**, Gavrilescu Maria
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers*, 25-27 October 2017 Galați, Romania*
Poster

The potential of some indigenous microorganisms and plants for the removal of heavy metals from soil,
Raluca-Maria Hlihor, Mihaela Roșca, Elena-Diana Comaniță, **Petronela Cozma**, Isabela Maria Simion, Maria Gavrilescu,
USAMV IASI OPEN DAYS, 105 YEARS OF HIGHER EDUCATION IN IASI, 19-27 October 2017, Iasi, Romania.
Poster

Assessment of acute and chronic risks generated by pesticide residues in sweet peppers,
Raluca-Maria Hlihor, Isabela Maria Simion, Mihaela Roșca, **Petronela Cozma**, Manuela Olga Pogăcean, Vasile Stoleru, Maria Gavrilescu,
USAMV IASI OPEN DAYS, 105 YEARS OF HIGHER EDUCATION IN IASI, 19-27 October 2017, Iasi, Romania.
Oral presentation

Kinetics of pesticides degradation in sweet peppers,
Raluca-Maria Hlihor, Manuela Olga Pogăcean, **Petronela Cozma**, Vasile Stoleru, Maria Gavrilescu,
USAMV IASI OPEN DAYS , 105 YEARS OF HIGHER EDUCATION IN IASI,
19-27 October 2017, Iasi, Romania.
Poster

Application of cost-benefit analysis for an eco-product manufactured from production waste,

Elena-Diana Comăniță, Isabela Maria Simion, **Petronela Cozma**, Raluca Maria Hlihor, Teofil Campean, Maria Gavrilescu,
9th International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2017), 25-27 September 2017, Athens, Greece.
Poster

Tools for the characterization of pesticide risk in food products. An overview,
Mihaela Roșca, Raluca-Maria Hlihor, **Petronela Cozma**, Maria Gavrilescu,
9th International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2017), 25-27 September 2017, Athens, Greece.
Poster

Life cycle analysis of processess and products manufactured from production waste based on eco-innovation and eco-design principles,
Isabela Maria Simion, Elena-Diana Comăniță, **Petronela Cozma**, Cristina Ghinea, Teofil Câmpean, Raluca Maria Hlihor, Mihaela Roșca, Simona Cecilia Ghiga, Camelia Smaranda, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral presentation

Evaluation of eco-efficiency by multicriteria decision analysis. case study of eco-innovated and eco-designed products from reciclable waste,
Elena-Diana Comăniță, Isabela Maria Simion, **Petronela Cozma**, Camelia Smaranda,Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga,Mihaela Roșca, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Sustainable development appraisal for industrial systems toward circular economy: case study of corrugated board and packaging manufacturing,
Camelia Smaranda, Teofil Câmpean, Cristina Ghinea, **Petronela Cozma**, Teodor Măluțan, Igor Crețescu, Adrian Cătălin Puițel, Elena-Diana Comăniță, Isabela Maria Simion, Raluca-Maria Hlihor, Dan-Alexandru Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Life cycle cost analysis of alternatives for closing the loop in a manufacturing sector based on eco-innovation and ecodesign,
Elena-Diana Comăniță, Isabela Maria Simion, **Petronela Cozma**, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral presentation

Challenges of circular economy: eco-innovation and eco-design in manufacturing sector,
Teofil Câmpean, Raluca-Maria Hlihor, Isabela Maria Simion, Elena-Diana Comăniță, **Petronela Cozma**, Camelia Smaranda, Mihaela Roșca, Dan-Alexandru Gavrilescu, Cristina Ghinea, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6-9 September 2017, Bologna, Italy.
Poster

Indicators for knowledge transfer from university to industry for life cycle extending in the context of circular economy,
Petronela Cozma, Teofil Câmpean, Ariadna Negruț, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comaniță, Simona Cecilia Ghiga, Camelia Smaranda, Raluca Maria Hlihor, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral Presentation

Analysis of pesticide fate and behavior in fruit and vegetables and associated human health risks,
Raluca Maria Hlihor, Isabela Maria Simion, **Petronela Cozma**, Manuela Olga Pogăcean, Mihaela Roșca, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral Presentation

Managing pesticide residues in sour cherries: a human health risk assessment approach,
Raluca Maria Hlihor, Manuela Olga Pogăcean, **Petronela Cozma**, Isabela Maria Simion, Vasile Stoleru,

Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6-9 September 2017, Bologna, Italy.
Oral presentation

Inquiry on pesticides residues in plant based products at national and international level,
Mihaela Rosca, Raluca Maria Hlihor, Isabela Maria Simion, **Petronela Cozma**, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6-9 September 2017, Bologna, Italy.
Poster

Kinetic modelling of pesticide degradation in apples,
Raluca Maria Hlihor, **Petronela Cozma**, Manuela Olga Pogăcean, Isabela Maria Simion, Laura Carmen Apostol, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Dimensional and quantitative analysisof production wastes from packaging industry for their revaluation. The case study of a Romanian manufacturer,
Igor Crețescu, Teofil Câmpean, Teodor Constantin Nechita, Adrian Cătălin Puițel, Teodor Măluțan, Dan-Alexandru Gavrilescu, Camelia Smaranda, **Petronela Cozma**, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Studies on physical absorption of CO_2 in water in airlift reactors (ALRs),
Petronela Cozma, Ioan Mămăligă, Manuela Olga Pogăcean, Raluca-Maria Hlihor,
Camelia Smaranda, Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Studies on organic pollutants transport and diffusion in various environmental, compartments,
Camelia Smaranda, **Petronela Cozma**, Ioan Mămăligă, Adrian Catalin Puitel, Teodor Malutan,
Maria Gavrilescu,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

Ecotoxicological evaluation of organic contaminants for plant-associated microorganisms,
Apostol Laura Carmen, Raluca Maria Hlihor, **Petronela Cozma**, Cristina Ghinea, Gavrilescu Maria,
9th International Conference on Environmental Engineering and Management (ICEEM09), 6-9 septembrie 2017, Bologna, Italia
Poster

Evaluation of environmental impacts for an eco -product manufactured by reusing production waste,
E.D. Comăniță, I.M. Simion, **P. Cozma**, R.M. Hlihor, T. Campean, M. Gavrilescu,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7), 17-19 July, 2017, Canary Islands, Spain.
Poster

Eco-efficiency evaluation of alternatives for recycling and reuse of production waste by multi-criteria decision analysis,
E.D. Comăniță, I.M. Simion, **P. Cozma**, R.M. Hlihor, T. Campean, M. Gavrilescu,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7), 17-19 July, 2017, Canary Islands, Spain.
Poster

A lifetime exposure assessment to pesticides present in certain plant products,
I.M. Simion, R.M. Hlihor, **P. Cozma**, M. Gavrilescu, M. Pogăcean,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7), 17-19 July, 2017, Canary Islands, Spain.
Poster

Dose-response analysis as support for assessing human health risk of pesticides applied in fruit and vegetables,

Petronela Cozma, Raluca Maria Hlihor, Isabela Maria Simion, Mihaela Roșca, Maria Gavrilescu,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7), 17-19 July 2017, Canary Islands, Spain.
Poster

Life cycle assessment of paper manufacturing: environmental and human health impacts,
Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, **Petronela Cozma**, Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilescu,
The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017
Grigore T. Popa University of Medicine and Pharmacy, June 22-24, 2017, Sinaia, Romania.
Poster

Overview of human health hazards posed by pesticides in plant products,
Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu,
The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017
Grigore T. Popa University of Medicine and Pharmacy, June 22-24, 2017, Sinaia, Romania.
Oral presentation

Impacts of pesticides on environmental and human health,
Petronela Cozma, Isabela Maria Simion, Raluca Maria Hlihor, Maria Gavrilescu,
27th Annual Meeting: "Environmental Quality Through Transdisciplinary Collaboration", 7–11 May 2017, Brussels, Belgium.
Poster

Behavior of pesticides in yellow peppers during their phenological growth stages,
Manuela Olga Pogăcean, Raluca Maria Hlihor, Isabela Maria Simion, **Petronela Cozma**, Maria Gavrilescu,
27th Annual Meeting: "Environmental Quality Through Transdisciplinary Collaboration", 7–11 May 2017, Brussels, Belgium.
Poster

Cumulative risk assessment strategies for pesticide residues in food products,
Raluca-Maria Hlihor, Isabela Maria Simion, **Petronela Cozma**, Maria Gavrilescu,
27th Annual Meeting: "Environmental Quality Through Transdisciplinary Collaboration", 7–11 May 2017, Brussels, Belgium.
Poster

2016 *Screening of microorganisms for cadmium(II) removal from liquid effluents,*
Mihaela Rosca, R.M. Hlihor, **Petronela Cozma**, M. Diaconu, T. Tavares, M. Gavrilescu,
International Conference of Applied Sciences, 02-04 June 2016, Bacau, Romania.
Poster

Biosorbents effectiveness in the removal of heavy metals from aqueous solutions in bioreactors,
Mihaela Rosca, Raluca Maria Hlihor, **Petronela Cozma**, Mariana Diaconu, Maria Gavrilescu,
International Conference of Applied Sciences, 02-04 June 2016, Bacau, Romania.
Poster

Reduction of recyclable waste by promoting product eco-design,
Teofil Câmpean, Elena Diana Comăniță, Isabela Maria Simion, **Petronela Cozma**, Camelia Smaranda, Cristina Ghinea, Maria Gavrilescu,
3rd International Conference on Chemical Engineering, Innovative Materials and Processes, (ICCE 2016), 9-11 November 2016, "Gheorghe Asachi" Technical University of Iaşi, Faculty of Chemical Engineering and Environmental Protection, ALUMNI –Association of Faculty of Chemical Industry, Iasi, Romania.
Poster

Sustainable industrial production in cement industry: characterization, perspectives and challenges,
Petronela Cozma, Georgeta Ropcean, Mihaela Rosca, Isabela Maria Simion, Raluca Maria Hlihor, Maria Gavrilescu,
3rd International Conference on Chemical Engineering, Innovative Materials and Processes, (ICCE 2016), 9-11 November 2016, "Gheorghe Asachi" Technical University of Iaşi, Faculty of Chemical Engineering and Environmental Protection, ALUMNI –Association of Faculty of Chemical Industry, Iasi, Romania.
Poster

Soil pollution control and sustainable remediation strategies,
Camelia Smaranda, Elena Diana Comaniță, **Petronela Cozma**, Maria Gavrilescu,
3rd International Conference on Chemical Engineering, Innovative Materials and Processes,

(ICCE 2016), 9-11 November 2016, "Gheorghe Asachi" Technical University of Iaşi, Faculty of Chemical Engineering and Environmental Protection, ALUMNI –Association of Faculty of Chemical Industry, Iasi, Romania.
Poster

Tolerance and adaptability of some microorganisms in soils contaminated with PCBs,
Mariana Diaconu, **Petronela Cozma**, Raluca Maria Hlihor, Maria Gavrilescu,
3nd International Conference on Chemical Engineering, Innovative Materials and Processes, (ICCE 2016), 9-11 November 2016, "Gheorghe Asachi" Technical University of Iaşi, Faculty of Chemical Engineering and Environmental Protection, ALUMNI –Association of Faculty of Chemical Industry, Iasi, Romania.
Poster

2015 *Studies on performances of pneumatic contactors with applications in environmental protection,*
Petronela Cozma, Mihaela Roșca, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu,
The Second CommScie International Conference: "Challenges for Sciences and Society in Digital Era", 4-5 December, 2015, Al.Ioan Cuza University of Iasi, Romania.
Poster

Potential of microorganisms for the removal of heavy metals from the environment,
Mihaela Rosca, Raluca Maria Hlihor, **Petronela Cozma**, Mariana Diaconu, Elena Diana Comăniţă, Maria Gavrilescu,
The Second CommScie International Conference: "Challenges for Sciences and Society in Digital Era", 4-5 December, 2015, Iasi, Al.Ioan Cuza University of Iasi, Romania.
Poster

Impact evaluation of two proposed scenarios as to reduce/recycle solid waste,
Isabela Maria Simion, **Petronela Cozma**, Mihaela Roșca, Diana Elena Comanita, Maria Gavrilescu, Alessandra Bonoli,
The Second CommScie International Conference: "Challenges for Sciences and Society in Digital Era", 4-5 December, 2015, Al.Ioan Cuza University of Iasi, Romania.
Poster

Potential of biosorption and bioaccumulation processes for heavy metal removal in bioreactors,
Mihaela Rosca, Raluca–Maria Hlihor, **Petronela Cozma**, Elena–Diana Comăniță, Maria Gavrilescu,
5th International Conference on e-Health and Bioengineering, **EHB 2015**, 19-21 November 2015, Grigore T. Popa University of Medicine and Pharmacy of Iaşi and Romanian Society of Medical Bioengineering, Iasi, Romania.
Poster

Characterization of a split-channel rectangular airlift reactor for application in efficient decontamination of gaseous effluents,
Petronela Cozma, Mihaela Roșca, Camelia Smaranda, Raluca Maria Hlihor, Ioan Mămăligă, Maria Gavrilescu,
8th International Conference on Environmental Engineering and Management, September 9-12, Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania.
Poster

2014 *Risk assessment of municipal solid waste landfilling,*
Cristina Ghinea, Diana Elena Comanita, Isabela Maria Simion, **Petronela Cozma**, Maria Gavrilescu,
Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR2014,
4-7 June 2014, Bacau, Romania.
Oral presentation

Comparison of ALR, BC and packed column performances used for CO_2 removal from gas mixtures,
Petronela Cozma, Walter Wukovits, Isabela Maria Simion, Raluca-Maria Hlihor, Anton Friedl, Ioan Mămăligă, Maria Gavrilescu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, 5-8 November 2014, Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Alumni Association of Faculty of Industrial Chemistry, Iasi, Romania.
Poster

A comparative life cycle assessment of three types of agricultural waste applied for Cd(II) biosorption,
Raluca-Maria Hlihor, Isabela Maria Simion, Cristina Ghinea, Diana Comanita, Laura Carmen Apostol,
Petronela Cozma, Maria Gavrilescu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, 5-8

November 2014, Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Alumni Association of Faculty of Industrial Chemistry, Iasi, Romania.
Poster

Evaluation of solid waste management scenarios using analytic hierarchy process (AHP) technique,
Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, **Petronela Cozma**, Maria Gavrilescu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes*,* 5-8 November 2014, Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Alumni Association of Faculty of Industrial Chemistry, Iasi, Romania.
Poster

Sustainability indicators associated to the ecological footprint in construction and demolition waste management,
I.M. Simion, S. Zanni, R.M. Hlihor, **P. Cozma**, D.L. Sobariu, S. Bamonti, A. Bonoli, M. Gavrilescu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes*,* 5-8 November 2014, Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Alumni Association of Faculty of Industrial Chemistry, Iasi, Romania.
Poster

2013 *Modelling and optimization of CO_2 absorption in pneumatic contactors using artificial neural networks developed with clonal selection based algorithm,*
Petronela Cozma, Ioan Mămăligă, Elena Niculina Drăgoi, Silvia Curteanu, Walter Wukovits, Anton Friedl, Maria Gavrilescu,
The 7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability*,* September 18 – 21, Vienna, Austria*.*
Oral presentation

Evaluation of environmental impacts for Cd(II) biosorption on pumkin seed hulls using life cycle assessment
Raluca Maria Hlihor, Cristina Ghinea, Dana Sobariu, Isabela Teslaru, Laura Carmen Apostol, **Petronela Cozma**, Laura Bulgariu, Maria Gavrilescu
The 7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability*,* 18 – 21 Septembrie, Viena, Austria*.*
Poster

2012 *Analysis of the environmental impact of water scrubbing technology applied for biogas upgrading based on LCA methodology*,
Petronela Cozma, Walter Wukovits, Ghinea Cristina, Ioan Mamaliga, Anton Friedl, Maria Gavrilescu, ***The „20th European Biomass Conference and Exhibition***", *MiCo* - Milano Congress Center, 18 June 2012, Milan, Italy.
Oral presentation

Aerobic biodegradation of phenol by activated sludge in a batch reactor,
Petronela Cozma, Raluca-Maria Hlihor, Mariana Diaconu, Maria Gavrilescu,
„***100th Anniversary of Faculty of Chemical Engineering and Environmental Protection*****",**
Centenary of Education in Chemical Engineering Conference, 28-30 November, 2012, Iasi – Romania, Organized by: "Gheorghe Asachi" Technical University din Iaşi, Faculty of Chemical Engineering and Environmental Protection, Doctoral Scholl of Faculty of Chemical Engineering and Environmental Protection, Association of Faculty of Chemistry - ALUMNI.
Poster

2011 *Exchanging ideas on renewable energy supply for the future,*
Bettina Liebmann, Orestis Almpanis Lekkas, **Petronela Cozma**, Stefan Koppatz,
Workshop on **"*Open space future - energy solutions case study contest 2011*",** organized by Institute of Chemical Engineering, Vienna University of Technology.
Oral presentation

2010 *Thermodynamic study of Cd(II) sorption on soil,*
Raluca-Maria Hlihor, **Petronela Cozma**, Cristina Ghinea, Vasile Lucian Pavel, Brînduşa Mihaela Robu, Maria Gavrilescu,
International Conference of "Durable Agriculture-Present and Perspectives", 21-23 Octomber, 2010, Iaşi, România.
Poster

Airlift bioreactors for pulp and paper effluents treatment and management,
Petronela Cozma, Maria Gavrilescu,
The 14th International Symposium on Cellulose Chemistry and Technology, 8-10 September, 2010, Iasi, Romania.
Poster

National conferences and symposia

2020 Analysis of *Plants Capacity to Tolerate the Toxicity of Heavy Metals in Soil/ Studiu privind capacitatea unor plante de a tolera toxicitatea metalelor grele din sol*
Maria Gavrilescu, Mihaela Roșca, Mariana Minuț, **Petronela Cozma**, Mariana Diaconu,
National Scientific Conference Academy of Romanian Scientists, May 28th – June 07th, 2020, on line conference
Oral presentation
Health Risk Assessment of Pesticides Residues in Commonly Consumed Fruits and Vegetables in Romania/Evaluarea riscului asupra sănătății umane generat de consumul de fructe și legume contaminate cu pesticide din România
Petronela Cozma, Mariana Minuț, Mihaela Roșca, Raluca Maria Hlihor, Maria Gavrilescu,
National Scientific Conference Academy of Romanian Scientists, May 28th – June 07th, 2020, on line conference
Oral presentation
Utilizarea plantelor și microorganismelor în bioremedierea solurilor poluate cu metale grele
Mariana Minuț, Mihaela Roșca, Ionela Cătălina Vasilachi, Dana Mihaela Asiminicesei,
Petronela Cozma, Mariana Diaconu, Maria Gavrilescu
Conferința Națională Ştiinţifică – Academia Oamenilor de Ştiinţă din România, 23-27 Noiembrie 2020, on line
Oral presentation
Bioremedierea efluenților lichizi prin exploatarea capacității microorganismelor de a reține ionii de metale grele
Mihaela Roșca, Mariana Minuț, **Petronela Cozma**, Camelia Smaranda, Raluca-Maria Hlihor, Maria Gavrilescu
Conferința Națională Ştiinţifică Academia Oamenilor de Ştiinţă din România, 23 – 27 Noiembrie 2020, on-line
Oral presentation
Analiza efectelor toxice ale metalelor grele asupra germinării semințelor și dezvoltării unor plante medicinale
Dana Mihaela Asiminicesei, Raluca Maria Hlihor, Maria Apostol, **Petronela Cozma**,
Isabela Maria Simion, Laura Hagiu-Zaleschi, Gabriel-Ciprian Teliban, Maria Gavrilescu
Conferința Națională Ştiinţifică Academia Oamenilor de Ştiinţă din România, 23 – 27 Noiembrie 2020, on-line
Oral presentation
Efectele toxice ale plumbului asupra dezvoltării timpurii a unor cereale
Ionela Cătălina Vasilachi, Dana Mihaela Asiminicesei, Mihaela Roșca, **Petronela Cozma**,
Camelia Smaranda, Maria Gavrilescu
Conferința Națională Ştiinţifică Academia Oamenilor de Ştiinţă din România, 23 – 27 Noiembrie 2020, on-line
Oral presentation

2019 *Plants behaviour in the presence of organic UV filters*,
Mariana Minuț, Mihaela Roșca, **Petronela Cozma**, Camelia Smaranda, Cezar Catrinescu, Mariana Diaconu, Maria Gavrilescu,
Conference of the TUIASI Doctoral School „Gheorghe Asachi" Tehnical University of Iasi, 22-23 Mai, 2019, Iaşi, Romania
Oral presentation
Toxic effects of lindane on white mustard (Sinapis alba) and rapeseed (Brassica napus) plants,
Sebastian Ionut Vasilica, Mihaela Rosca, **Petronela Cozma**, Diana Elena Comanita, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilescu,
C Conference of the TUIASI Doctoral School „Gheorghe Asachi" Tehnical University of Iasi, 22-23 Mai, 2019, Iaşi, Romania
Oral presentation

2018 *Functional groups on microorganisms wall surface involved in cadmium ions removal from aqueous solution,*

Mihaela Roșca, Mariana Diaconu, **Petronela Cozma**, Elena-Diana Comăniță, Maria Gavrilescu,
Conference of the TUIASI Doctoral School „Gheorghe Asachi" Tehnical University of Iasi, 23-24 May, 2018, Iași, Romania.
Oral presentation

Lead (Pb^{2+}) toxicity effects on White mustard (Sinapis alba),
Sebastian Ionuț Vasilică, Mihaela Roșca, **Petronela Cozma**, Diana Elena Comăniță, Mariana Diaconu, Maria Gavrilescu,
Conference of the TUIASI Doctoral School „Gheorghe Asachi" Tehnical University of Iasi, 23-24 May, 2018, Iași, Romania.
Oral presentation

2017 *Knowledge transfer - sustainable instrument for strengthening the links between university and industry* (in Romanian),
Petronela Cozma, Teofil Câmpean, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comaniță, Camelia Smaranda, Raluca Maria Hlihor, Maria Gavrilescu,
Academy of Scientists of Romania - Autumn Scientific Session, Scientific Research in Support of Sustainable Development, Timisoara, 12-14 October 2017.
Oral presentation

2016 *Improvement of solid waste management through sustainable use of resources,*
Isabela Maria Simion, Raluca Maria Hlihor, **Petronela Cozma**, Laura Carmen, Apostol, Brandusa Mihaela Robu (Sluser), Maria Gavrilescu,
Autumn Scientific Session, Academy of Romanian Scientists : Knowledge - Creativity – Spirituality, 22-24 September 2016, Durău – Neamț, Romania.
Oral presentation

2015 *(Bio)remediation of heavy metals contaminated effluents in mechanical and pneumatic mixed systems,*
Mihaela Rosca, Raluca Maria Hlihor, Elena Diana Comanita, **Petronela Cozma**, Isabela Maria Simion, Mariana Diaconu, Maria Gavrilescu,
"Alexandru Ioan Cuza" University Days, Faculty Of Chemistry Conference, 29 – 31 October 2015, Iasi, Romania.
Poster

Dynamic behaviour of organic pollutants in the soil matrix - the influence of main parameters,
Camelia Smaranda, Mihaela Roșca, **Petronela Cozma**, Maria Gavrilescu,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015, Iasi, Romania.
Poster

2012 *Decontamination of fluid fluxes in pneumatic contactors,*
Petronela Cozma,
Exploratory Workshop: *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy,* 19-21 September, Iasi, Romania.
Oral presentation

2011 *Biogas upgrading using water scrubbing technology,*
Petronela Cozma, Walter Wukovits, Anton Friedl, Maria Gavrilescu,
Days of Faculty of Chemical Engineering and Environmental Protection, Eight Edition, 17-18 November, 2011, Iasi, Romania.
Poster

2010 *Removal of CO_2 from gas streams in airlift reactors,*
Petronela Cozma, Maria Gavrilescu,
Days of Faculty of Chemical Engineering and Environmental Protection, Seventh Edition, November 17-19, 2010, Iasi, Romania.
Poster

2009 *Pneumatic (bio)reactors applied in environmental protection,*
Petronela Cozma, Maria Gavrilescu,
Days of the Faculty of Chemical Engineering and Environmental Protection, November 18-20, 2007, Iasi, Romania.
Oral presentation

Conferences, workshops, member în organising committees

2026 **Student Scientific Circles session in May 2026, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, May 2026, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section

2024- **Member of the Topical Advisory Panel** (TAP), *Processes* (MDPI) - Handle peer reviews, assist

present Section Board Members and Topic Editors, manage or propose Special Issues

2026 **Member of the Early Career Editorial Board**, *Processes* (MDPI) - Promoting the journal; Selecting high-quality articles/Reviewing at least four manuscripts per year/ Providing input on any new initiatives for journal development – in progress

2026 **Invited speaker** at the International MDPI Webinar *Nature-Based Solutions for Sustainable Cities and Communities: From Concept to Measurable Environmental Impact* - Presenting the paper entitled: Phytoremediation: A Sustainable and Promising Bio-Based Approach to Heavy Metal Pollution Management

2026 **Co-organizer on behalf of Gheorghe Asachi Technical University of Iasi for the MDPI Academic Publishing Workshop -** Providing logistical support, promoting sessions to students, faculty, and doctoral researchers, and fostering institutional partnerships

2025 **CHAIRPERSONS – EHB 2025**, hybrid conference, "Grigore T. Popa" University, Iasi, Romania, section Environmental Protection and Health - Managing the schedule, introducing speakers, facilitating Q&A sessions, and setting a professional atmosphere

2025 **Student Scientific Circles session in May 2025, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, May 2025, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section
13th International Conference on Environmental Engineering and Management
International conference organized by Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, September 17 – 20, 2025, Iasi, Romania.
Member of Organising committee

2024 **Student Scientific Circles session in May 2024, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, May 2024, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section

2023 **Student Scientific Circles session in May 2023, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 18 May 2023, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section

2022 **Student Scientific Circles session in May 2022, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 18 May 2022, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section

2021 **Student Scientific Circles session in May 2021, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 21 May 2021, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section

2019 **Student Scientific Circles session in May 2019, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 23 May 2019, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section
10th International Conference on Environmental Engineering and Management
International conference organized by Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, September 18 – 21, 2019, Iasi, Romania.
Member of Organising committee

2018 **Student Scientific Circles session in May 2018, Section Environmental Engineering and Sustainable Development**
Event organized by the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 14 – 18 May 2018, Iasi, Romania.
Secretary of Environmental Engineering and Sustainable Development Section
COMPETITION "Acad. CRISTOFOR SIMIONESCU ", Fifth edition, IAŞI, CHEMISTRY AND CHEMISTRY APPLIED IN CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION

Event organized by the Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 17 November 2018, Iasi, Romania.
Member of Organising committee

2017 **COMPETITION "Acad. CRISTOFOR SIMIONESCU ", Fifth edition, IAŞI, CHEMISTRY AND CHEMISTRY APPLIED IN CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION**
Event organized by the Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 18 May 2017, Iasi, Romania.
Member of Organising committee
Student Scientific Circles session in May 2017, Section Environmental Engineering
Event organized by the Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 15 – 19 May 2017, Iasi, Romania.
Secretary of Environmental Engineering Section

2016 **Student Scientific Circles session in May 2016, Section Environmental Engineering**
Event organized by the Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 16 – 20 May 2016, Iasi, Romania.
Secretary of Environmental Engineering Section

2015 **8th International Conference on Environmental Engineering and Management**
International conference organized by Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, September 9 – 12, 2015, Iasi, Romania.
Member of Organising committee

2013 **7th International Conference on Environmental Engineering and Management - Integration Challenges for Sustainability**
International conference organized by Institute of Chemical Engineering, Thermal Process Engineering and Simulation Research Division, Vienna, Austria and Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, September 18 – 21, 2013, Vienna, Austria.
Member of Organising committee

2012 **Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy**
Exploratory Worskshop organized within the Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, September 19-21, Iasi Romania.
Member of Organising committee

Research Reports

2022 ***Research report within PED project:*** *"Integrating environmental bioremediation with biomass valorization and critical raw materials recovery by phytomining (PHYTOMIN)",* Contract no. nr. 269PED / 2020, Project manager Professor Maria Gavrilescu
Stage III: Stage 2022
Research report within PED project: *" Evaluation of Sustainability of Eco-Friendly Processes used in Wastewater Treatment based on an Integrated Environmental and Economic Assessment Approach (SusTrEE)"*, **PN-III-P2-2.1-PED-2019-2430**, Project manager Lector Raluca-Maria Hlihor, Indicativul PNIII: PN-III-P2-2.1-PED-2019-2430
Contract: 439PED din 28/10/2020
Stage III: Stage 2022

2021 ***Research report within PED project:*** *"Integrating environmental bioremediation with biomass valorization and critical raw materials recovery by phytomining (PHYTOMIN)",* Contract no. nr. 269PED / 2020, Project manager Professor Maria Gavrilescu
Stage II: Stage 2021
Research report within PED project: *" Evaluation of Sustainability of Eco-Friendly Processes used in Wastewater Treatment based on an Integrated Environmental and Economic Assessment Approach (SusTrEE)"*, **PN-III-P2-2.1-PED-2019-2430**, Project manager Lector Raluca-Maria Hlihor, Indicativul PNIII: PN-III-P2-2.1-PED-2019-2430
Contract: 439PED din 28/10/2020
Stage II: Stage 2021

2020 ***Research report within PED project:*** *"Integrating environmental bioremediation with biomass valorization and critical raw materials recovery by phytomining (PHYTOMIN)",* Contract no. nr. 269PED / 2020, Project manager Professor Maria Gavrilescu
Stage I: Stage 2020
Research report within PED project: *" Evaluation of Sustainability of Eco-Friendly Processes used in Wastewater Treatment based on an Integrated Environmental and Economic Assessment Approach (SusTrEE)"*, **PN-III-P2-2.1-PED-2019-2430**, Project manager Lector Raluca-Maria Hlihor, Indicativul PNIII: PN-III-P2-2.1-PED-2019-2430
Contract: 439PED din 28/10/2020

Stage I: Stage 2020

2019 ***Research report within PCE project*** *"Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP),* **PN-III-P4-ID-PCE-2016-0683, Contract no. 65/12.07.2017**
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 3 – stage 2019
Research report within PCE project *"Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP),* **PN-III-P4-ID-PCE-2016-0683, Contract no. 65/12.07.2017**
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 2 – stage 2018
Research report within PCE project *"Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP),* **PN-III-P4-ID-PCE-2016-0683, Contract no. 65/12.07.2017**
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 1 – stage 2017

2018 ***Research report within BRIDGE project,*** PN III-P2-2.1-BG-2016-0130, contract 64BG/2016
Strategies and solutions for eco-design and eco-innovation processes and products from recyclable material in the context of circular economy (ECOINDE)
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 3 – stage 2018
Research report within PED project, PNCDI III- PED project, code PN-III-P2-2.1-PED-2016-1662, Contract no. 10PED/2017
Modelling pesticide dynamics in vegetables and assessment of human health risks (MODPEST)
Project Director Lecturer dr.eng. Raluca-Maria Hlihor
Stage 2 – stage 2017
Research report within PCE project, PN-III-P4-ID-PCE-2016-0683, Contract nr. 65/12.07.2017
Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP)
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 1- stage 2016

2017 ***Research report within BRIDGE project,*** PN III-P2-2.1-BG-2016-0130, contract 64BG/2016
Strategies and solutions for eco-design and eco-innovation processes and products from recyclable material in the context of circular economy (ECOINDE)
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 3 – stage 2018
Research report within PED project, PNCDI III- PED project, code PN-III-P2-2.1-PED-2016-1662, Contract no. 10PED/2017
Modelling pesticide dynamics in vegetables and assessment of human health risks (MODPEST)
Project Director Lecturer dr.eng. Raluca-Maria Hlihor
Stage 2 – stage 2017
Research report within PCE project, PN-III-P4-ID-PCE-2016-0683, Contract nr. 65/12.07.2017
Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP)
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 1- stage 2016

2016 ***Research report within BRIDGE project, PN III-P2-2.1-BG-2016-0130, contract 64BG/2016***
Strategies and solutions for eco-design and eco-innovation processes and products from recyclable material in the context of circular economy (ECOINDE)
Project Director Prof.dr.eng. Maria Gavrilescu
Stage 1 - December 2016

2012 ***Research report within IDEI project, PN-II-ID-PCE-2011-3-0559, contract 265/5.10.2011***
Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants (BIOSACC)
Project Director Prof.dr.eng. Maria Gavrilescu
September 2016

2011 ***Research report within IDEI project, PN-II-ID-PCE-2011-3-0559, contract 265/5.10.2011***
Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants (BIOSACC)
Project Director Prof.dr.eng. Maria Gavrilescu
December 2011

2012 ***Scientific research report during doctoral studies within POSDRU/88/1.5/S/59410 project - EURODOC – ID 59410***
Studies on absorption and biodegradation processes of organic and inorganic compounds from contaminated fluid flows in pneumatic contactors
May 2012

2011 ***Scientific research report during doctoral studies within POSDRU/88/1.5/S/59410 project - EURODOC – ID 59410***
Modeling and simulation of processes applied to the remediation of contaminated fluid streams with organic and inorganic compounds in pneumatic contactors
September 2011

2010 ***Scientific research report during doctoral studies within POSDRU/88/1.5/S/59410 project - EURODOC – ID 59410***
Decontamination of fluid fluxes in pneumatic contactors
September 2010

Member of national/international research grants

15.10.2025-31.03.2026 *Project "Transforming Education Area and Competency Hub for Sustainable Development – TEACH4SD"*, code ERASMUS-EDU-2022 PEX-COVE/"Gheorghe Asachi" Technical University of Iasi, Romania

September 2026-present **COST ACTION OC-2023-1-26944 (CA 23157)** project, *European Network for Multiple View Life Cycle Sustainability Assessment*, working group 4/"Gheorghe Asachi" Technical University of Iasi, Romania

2020-2022 **PN-III-P2-2.1-PED-2019-5239, Contract no. 269PED / 2020**,
"Integrating environmental bioremediation with biomass valorization and critical raw materials recovery by phytomining (PHYTOMIN)", Project manager Professor Maria Gavrilescu
Post-doc researcher

28.10.2025-present **Expert WP2 – Building cohesive cooperation framework** in cadrul proiectului **"INGENIUM Alliance of European Universities", Tipul: ERASMUS-EDU-2022-EUR-UNIV , Grant Agreement project ID 101090042 - INGENIUM**

2020-2022 **PN-III-P2-2.1-PED-2019-2430**
"Evaluation of Sustainability of Eco-Friendly Processes used in Wastewater Treatment based on an Integrated Environmental and Economic Assessment Approach (SusTrEE)", Project manager Lector Raluca-Maria Hlihor
Post-doc researcher

September 2019 **PN-III-P1-1.1-MCD-2019-0084, contract no.13/05.08.2019**
Mobility projects for experienced researchers from diaspora (MCD2019) entitled *"Cercetări avansate privind tehnologiile de remediere aplicate pentru depoluarea unor medii contaminate (Advanced research on remediation technologies applied for clean-up of contaminated sites)"*
Project director Assist. Petronela Cozma

2017-2019 **PN-III-P4-ID-PCE-2016-0683, Contract no. 65/12.07.2017**
Exploring and exploiting the abilities of microorganisms and plants and their interactions for environmental bioremediation (BIOREMIP)
Project Director Prof.dr.eng. Maria Gavrilescu
Post-doc researcher

2017-2018 **PN-III-P2-2.1-PED-2016-1662, Contract no. 10PED/2017**
Modelling pesticide dynamics in vegetables andassessment of human health risks (MODPEST)
Project Director Lecturer dr.eng. Raluca-Maria Hlihor
Post-doc researcher

2016-2018 **PN III-P2-2.1-BG-2016-0130, contract 64BG/2016**
Strategies and solutions for eco-design and eco-innovation processes and products from recyclable material in the context of circular economy (ECOINDE)
Project Director Prof.dr.eng. Maria Gavrilescu
Post-doc researcher

26.06.2017-15.12.2017 **FDI, CNFIS-FDI-2017-0065**
Continuous improvement of university teaching staff - guarantee of professional deontology and

academic ethics (PERF-DEONTETIC)",
Project Director Professor Seghedin Neculai Eugen
Expert in ethics and professional deontology

2011-2016 **PN-II-ID-PCE-2011-3-0559, contract no. 265/5.10.2011**
Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants (BIOSACC)
Project Director Prof.dr.eng. Maria Gavrilescu
Research assistant and member of research group

2012 **PN-II-ID-WE-2012-4-062, contract no. 60/16.08.2012**
Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy
Exploratory Worskshop organized within the Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, September 19-21, Iasi Romania, Prof.dr.eng. Maria Gavrilescu; Co-organizator: Institute of Chemical Engineering, Thermal Process Engineering and Simulation Research Division, Vienna, Austria, Prof.dr.eng. Anton Friedl.
Member of the organizing commitee

2009-2012 **POSDRU/88/1.5/S/59410**
EURODOC "Doctoral Scholarships for research performance at European level" project, financed by the European Social Found and Romanian Government
Member of the target group

Date
October, 2026

Signature,

Dr. Eng. **Petronela COZMA**

Lista de lucrări în domeniul de studii universitare de licență

Ingineria Mediului

Nume Prenume: ***Nacu Gabriela***
Gradul didactic: ***Șef lucrări. dr. ing.***

A. Teza de doctorat

Titlul tezei: *Studii privind utilizarea unor deșeuri celulozice în reducerea poluării mediului*
Domeniul de doctorat: Ingineria Mediului
Anul susținerii tezei: 2015
Anul confirmării titlului de Doctor: 2015

B. B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. Gabriela Nacu, Laura Bulgariu, *Sawdust - Properties, Potential Uses and Hazards,* Nova Science Publishers, Inc, New York, USA*: Cap. 3. Sawdust - A Sustainable Low-Cost Adsorbent for Environmental Remediation,* 2017, p 111 – 147

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Laura Bulgariu, Gabriela Nacu, *Metode instrumentale de analiză, lucrări practice (Ediția a III-a)*, Ed. Performantica, Iași, 2022, ISBN 978-606-685-940-0
2. Laura Bulgariu, Gabriela Nacu, *Lucrări practice - metode instrumentale de analiză*, Ed. Performantica, Iași, 2017, 116 pg, ISBN 978-606-685-526-6
3. Laura Bulgariu, Gabriela Rusu*, Metode instrumentale de analiză,* Ed. Performantica, Iași, 2010, ISBN 978-973-730-713-2
4. Doina Bîlbă, Lavinia Tofan, Gabriela Rusu, *Metode de analiză în controlul calității mediului - lucrări practice*, Ed. Performantica, Iași, 2007, ISBN 978-973-730-397-4
5. I. Sârghie (coordonator), Lavinia Tofan, Daniela Șuteu, Laura Bulgariu, Gabriela Rusu, *Analiza cantitativă* - lucrări practice, Ed. Performantica, , Iași, 2005, ISBN 973-730-046-7

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

a. Lucrări ISI

1. Daniela-Ionela Ferțu, Alina-Alexandra Ciobanu, Irina Gabriela Cara, Iuliana Motrescu, Iftikhar Ahmad, Gabriela Nacu and Laura Bulgariu, *Circular Approach of Using Soybean Biomass for the Removal of Toxic Metal Ions from Wastewater*, Water 2024, 16(24), 3663
2. Gabriela Nacu, Daniela Şuteu, Lavinia Tofan, Carmen Păduraru, Laura Bulgariu, *Removal of Zn(II) ions from aqueous solution by sorption using cellulose functionalized with reactive dyes as sorbent*, Environmental Engineering and Management Journal, Vol. 18, No. 2, 2019, 321-327
3. Bianca Cojocariu, Anca Mihaela Mocanu, Gabriela Nacu, Laura Bulgariu, *Possible utilization of PET waste as adsorbent for Orange G dye removal from aqueous media*, Desalination and Water Treatment, 104, 2018, 338–345
4. Gabriela Nacu, Lăcrămioara (Nemeş) Negrilă and Laura Bulgariu, *Batch adsorption of Zn(II) ions from aqueous solution onto sawdust*, Revue Roumaine de Chimie, Vol. 62(4-5), 2017, 439-447
5. Bulgariu D., Nacu (Rusu) G., Măluţan T., Bulgariu L., *Kinetics study of lead(II) removal from aqueous solution onto lignin-based materials*, Cellulose Chemistry and technology, 50 (2), 2016, 339-347
6. Gabriela Nacu, Dumitru Bulgariu, Maria Cristina Popescu, Maria Harja, Doru Toader Juravle, Laura Bulgariu, *Removal of Zn(II) ions from aqueous media on thermal activated sawdust*, Desalination and Water Treatment, 57/46(2016)21904-21915
7. Daniela Șuteu, Gabriela Biliuță, Lăcrămioara Rusu, Sergiu Coseri, Gabriela Nacu, Cellulose Cellets new type of adsorbent for retaining dyes from aqueous media, *Environmental Engineering and Management Journal*, Vol.14, No. 3, 2015, 525-532

b. Lucrări BDI

1. Nacu Gabriela, Nemeș Lăcrămioara, Mocanu Anca Mihaela, Bulgariu Laura *Removal efficiency of Zn(II) ions from aqueous effluents on different types of waste biomass*, Lucrări Științifice seria Horticultură, 61 (2)/2018, USAMV Iași, p.335-340
2. Bădescu Iulia Simona, Negrilă Lăcrămioara, Nacu Gabriela, Bulgariu D., Bulgariu Laura, *Biosorption potential of various waste biomasses for Cu(II) ions removal from aqueous solution*, Lucrări ştiinţifice Seria Horticultură, 60 (1) / 2017, USAMV IAŞI
3. Iulia Simona Bădescu, Lăcrămioara Negrilă, Gabriela Nacu, Laura Bulgariu *Removal of Cu(II) ions from aqueous solution by biosorbtion on marine algae biomass*, , Bul. Inst Pol. Iasi, Sectia Chimie si Inginerie Chimica, Tom LXI(LXV), Fasc.2, 57-66, 2015
4. Lucia Tataru, Corina Malutan, Mihai Vata, Gabriela Rusu, *Synthesis and characterisation of Cu(II), Ni(II) metal complexes of some Bis Schiff Bases*, Bul. Inst Pol. Iasi, Sectia Chimie si Inginerie Chimica, Tom LVI(LX), Fasc.4, 2010, 33-40.
5. Șuteu, C.Zaharia, G. Rusu, *Reactive dye removal from aqueous solution by sorption on modified ash*, Cercetări Agronomice în Moldova, (2010), Vol. XLIII , No. 1 (141) pp.59-65
6. Șuteu, D. Bîlbă, G. Rusu, *Fibrous materials for dye removal from textile wastewaters. Kinetic and thermodynamic study*, Bulletin of the Polytechnic Institute of Iasi, Sec. Materials Science and Engineering, (2009), tom LV (LIX), fasc.4, 411- 418
7. D. Șuteu, T. Malutan, G. Rusu, *Use of Industrial Lignin for dye removal from aqueous solution by sorption*, Lucrări Știintifice USAMV IASI Seria Agricultura, (2008), 51(1), pp.159-164

8. D. Șuteu, M. Harja, G. Rusu, *Materials based on ash for environmental protection. II. Preliminary studies about dye sorption onto materials based on ash*, Lucrari Stiintifice USAMV IAȘI Seria Agricultura, (2007), vol. 50, pp. 90-95
9. D. Șuteu, D. Bilba, G. Rusu, M. Macoveanu, Study of dyes removal from aqueous solutions onto Romanian peat, Analele Universităţii din Oradea, fasc. Chimie, (2007), vol. XIV, pp.26-31
10. Daniela Șuteu, Carmen Zaharia, Gabriela Rusu, *Removal of chromium ions (III) from aqueous systems by cellolignine sorbent*, Scientific Papers, University of Agricultural Science and Veterinary Medicine "Ion Ionescu de la Brad, Iasi, "Agronomy", (2006) Series, Vol, .49, pg. 394 – 400
11. D. Șuteu, I.Volf, G.Rusu, *Separation des substances polluantes de l`eaux avec materiaux ligno-cellulosique*, Scientific Study & Research, Vol. VII (2), (2006) , pp.435-442
12. Doina Bejan, Laura Bulgariu, Gabriela Rusu, *Spectrophotometrical variants for determination of tannins in wines*, Bull. I. P. Iași, S. Chimie și Inginerie Chimică, tom L(LIV), fasc.1-2, 15-23 (2004)

I. Lucrări ştiinţifice publicate în volumele conferinţelor

1. Bulgariu, L.; Badescu, I. S.; Bulgariu, D.; Nacu, G., *Lead ions adsorption from industrial waste water using activated carbon prepared from marine green algae biomass*, 19th International Multidisciplinary Scientific GeoConference SGEM, Section Hydrology & Water Resources, Viena 2019, vol. 1.4, p 213-220, DOI: 10.5593/sgem2019V/1.4/S02.027
2. Bianca Cojocariu, Anca Mihaela Mocanu, Dumitru Bulgariu, Gabriela Nacu, Laura Bulgariu, *Equilibrium Isotherm Study of Metal Ions Adsorption on PET Recycled Fibers*, The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017 Grigore T. Popa University of Medicine and Pharmacy, Sinaia, Romania, June 22-24, 2017, DOI: 10.1109/EHB.2017.7995367
3. Teodora (Ionel) Arsenie, Lacrămioara (Negrilă) Nemeş, Gabriela Nacu, Laura Bulgariu, *Quantitative Removal of Hg(II) Ions from Aqueous Media by Biosorption on Rape Waste Biomass*, The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017 Grigore T. Popa University of Medicine and Pharmacy, Sinaia, Romania, June 22-24, 2017, DOI:10.1109/EHB.2017.7995368
4. Gabriela Nacu, Lăcrămioara Negrilă, Mihaela Rosca, Camelia Smaranda, Laura Bulgariu, Maria Gavrilescu, *Efficient removal of Pb (II) ions from accidental polluted waters by adsorption onto thermal activated lignin*, 2015 E-Health and Bioengineering Conference (EHB), IEEE, 7391489, DOI: 10.1109/EHB.2015.7391489
5. Șuteu D., Zaharia C., Bădeanu M.,Rusu G., *Modern agriculture – key issue for guarantee of food safety?*, Ecological Movement of Novi Sad Journal, Novi Sad (Serbia) 2013, p 191 – 197
6. Șuteu, C.Zaharia, G.Rusu, *Kinetic study of Methylene Blue dye sorption from liquid media onto lignine*, Proceeding of International Scientific Conference, 19 – 20 November 2010, GABROVO, Bulgaria, vol. III, pp.423-528
7. D.Șuteu, C.Zaharia, G.Rusu, *Treatment of industrial colored effluents using sorption onto industrial cellolignin wastes*, Proceeding of the International Symposium in Knitting and Apparel, Iași, Nov. 2010

8. D. Șuteu, C. Zaharia, G. Rusu, E. Mureșan, *Sorption of Brilliant Red HE-3B dye onto modified coal ashes. Equilibrium and kinetic studies*, Volumul celei de - a XIVa Conferinte Internationale de Inventica „Cercetări și Tehnologii Inovative Performante", Iunie 9-10, 2010, Iași, .271-281

9. D. Șuteu, C.Zaharia, G. Rusu, *Reactive dye removal from aqueous solution by sorption on modified ash*, Cercetări Agronomice în Moldova, 2010, Vol. XLIII , No. 1 (141) pp.59-65

10. D. Șuteu, G. Rusu, C. Zaharia, M. Harja, *Preliminary studies about Rhodamine B sorption onto coal ash*, International Scientific Conference, 23 – 24 November 2007, GABROVO, Bulgaria, Proceeding, vol.2, pp.II, 312 - 316

11. D. Șuteu, G. Rusu, C. Zaharia, *Removal of reactive dye Orange 16 from aqueous solution by sorption onto sawdust*, Volumul celei de a XIIIa Conferințe Internaționale de Inventică „Cercetări și tehnologii inovative performante", Iunie 4-6, (2009), Iași, România, pg. 670-674

K. Contracte de cercetare.
Membru în colectiv

1. Contractul de finanţare PN-III-P4-ID-PCE-2016-0500, nr.41/2017:*Valorificarea deşeurilor de biomasă din producţia de biocombustibili în procesele de biosorbţie a metalelor grele cu aplicaţii în bioremedierea mediului*, Director de proiect : Prof. Dr. Habil. Chim. Laura Bulgariu,

2. Programul Colab CEEX nr. 634, 2005-2008, *Centru de expertiză pentru exploatarea durabilă a ecosistemelor (CEXDUREC), Studiu de caz: Ecosisteme terestre şi acvatice peri-urbane din bazinul râului Ciric, de la nord de municipiul Iaşi*, Director de proiect: Conf. univ. dr.ing. Eugenia Doniga

L. Premii, distincţii.

1. Medalia de aur - Cea de -a XIII-a Conferință Internațională de Inventică „Cercetări și Tehnologii Inovative Performante", Iunie 4-6, 2009, Iași, România; autori D. Șuteu, G. Rusu (Nacu), C. Zaharia, pentru lucrarea: "Removal of reactive dye Orange 16 from aqueous solution by sorption onto sawdust"

Data, Semnătură,
2.09.2026

L I S T A D E L U C R Ă R I

PUIȚEL ADRIAN CĂTĂLIN - Dr./ din 2009, OMECT 3030/13.01.2009, șef lucrări univ. dr.ing. din anul 2012

1. Teza de doctorat

"Cercetări privind posibilitățile de reducere a impactului ecologic la înălbirea celulozei sulfat (susținută în anul 2008 la Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul Inginerie Chimică, conducător de doctorat: Prof. univ.dr.ing. Dan Gavrilescu)

2. Brevete de invenție și alte titluri de proprietate industrială

B1 Gavrilescu D. A; **Puițel A. C**.; Tofanica B. M.; Nicu R.; Malutan T; Ciolacu F; Obrocea P; Pânzariu, **RO 133619 B1** *Procedeu de obţinere a fibrelor celulozice papetare din materiale vegetale secundare Agricole* (Obtaining paper cellulose fibers from agricultural plant materials for manufacturing corrugated paper, by performing initial treatment on wheat straw and maize stalks with sodium carbonate solution, processing and sorting materials), BOPI 12/2021 https://www.webofscience.com/wos/diidw/full-record/DIIDW:201983939U

B2 Gavrilescu M; Cretescu I; Malutan T; Smaranda C; **Puitel A C**; Cozma P; Hlihor R; Ghinea C; Simion I; Comanita E; Rosca M; RO133715(B1) *Procedeu de obținere a unor materiale de tip biocompozit destinate realizării elementelor constructive şi funcţionale ale europaleţilor* (Process for preparing biocomposite materials for manufacturing constructive and functional elements of euro-pallet, involves processing mixture by thermoforming in mold and placing mold between two plates heated at specific range), BOPI 3/2024, https://www.webofscience.com/wos/diidw/full-record/DIIDW:2019A0779M

B3 Suditu G D; Nechita M; Puitel A C; Dragoi E, **RO135064 B1** Instalație pentru tratarea apelor uzate prin metode foto-sono-chimice (Plant for purifying wastewater by photo and sono-chemical process, has a photochemical reactor that is set with covers provided with holes with a sealing system through which quartz tubes pass and into which UV lamps are inserted), BOPI nr. 6/2021, https://www.webofscience.com/wos/diidw/full-record/DIIDW:202175620Y

3. Cărți şi capitole din cărți

1. Adrian Catalin Puițel *Chimia biomasei vegetale. Hemiceluloze*., ECOZONE Iasi, 200p. ISBN 978-606-8625-51-5, 200 p., 2026;

2. Adrian Cătălin Puițel, Bogdan Marian Tofănică and Dan Alexandru Gavrilescu Chapter 3. *Fibrous raw materials from agricultural residues*, 21p. , **Pulp Production and Processing High-Tech Applications**, editor: Valentin I. Popa, Berlin, Boston: De Gruyter, 2020. https://doi.org/10.1515/9783110658842;

3. Teodor Măluțan, **Adrian Cătălin Puițel**, Bogdan Marian Tofănică și Adina Elena Custură "2. Biorafinarea materialelor lignocelulozice" (p.63-83), în Ambalaje din carton ondulat pentru produse alimentare Manual de

bune practici autori: Florin Ciolacu, Adina Elena Custură, Dan Gavrilescu, Teodor Măluțan, Raluca Nicu, Paul Obrocea, Adrian Cătălin Puițel, Bogdan Marian Tofănică, Roxana, Vlase, Ed. Politehnium. Iași, 2017;

4. Adrian Cătălin Puițel, Raluca Nicu și Florin Ciolacu ”Potențialul papetar al fibrelor celulozice obținute prin metode de biorafinare”(p.63-81) ,în Ambalaje din carton ondulat pentru produse alimentare Manual de bune practici autori: Florin Ciolacu, Adina Elena Custură, Dan Gavrilescu, Teodor Măluțan, Raluca Nicu, Paul Obrocea, Adrian Cătălin Puițel, Bogdan Marian Tofănică, Roxana, Vlase, Ed. Politehnium. Iași, 2017;

5. Adrian Cătălin Puițel capitolele 1-3: 1. Importanta economica a amidonului (9p.); 2. Structura și obținerea amidonului (16p.), 3. Modificarea fizico-chimică a amidonului (18p), total 43p. în Dan Gavrilescu, Adrian Cătălin Puițel, Teofil Câmpean, Florin Grad, Amidonul - aplicații la fabricarea hârtiei și cartonului ondulat”, Performantica, Iași, 2014;

6. Capitolul 3.4. Liste de verificare a funcţiilor produsului, abilitatea la perfecţionare (16p) în Maria Gavrilescu, Igor Crețescu, Teodor Măluțan, **Adrian Puițel**, Camelia Smaranda, Petronela Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Isabela-Maria Simion, Diana-Elena Comăniță, Mihaela Roșca, Teofil Câmpean, Strategii și soluții pentru eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici, Editura Politehnium, Iași, Romania, 2017;

7. Dan Gavrilescu **Adrian Puitel** - *Priority organic pollutants in effluents from pulp and paper industry* (Chapter 6, 21p.) in Curent Topics, Concepts and Research Priorities In Environmental Chemistry (II) Editor: Carmen Zaharia, Editura: Alexandru Ioan Cuza University Publishing House, 2013

4. Articole publicate în reviste ISI, cu factor de impact

1. Suteu, D.; Blaga, A.C.; Rusu, L.; Puitel, A.C.; Tataru-Farmus, R.-E, Transforming Residual Microbial Biomass into High-Value Bicomposite Material for Reactive-Dye Removal: Insights from Batch Investigations to Fluidized-Bed Reactor Applications, MATERIALS, 2026, 19

2. Puitel, AC; Nechita, MT, Recent Progress on Lignocellulosic-Based Materials, POLYSACCHARIDES,2026, 7,2

3. Puitel, AC; Nechita, MT, Recent Progress on Lignocellulosic-Based Polymeric Materials, POLYMERS, 2026, 18, 12

4. Tofanica, BM; Ungureanu, E; Callone, E; Puitel, AC; Samuil, C; Ungureanu, OC; Fortuna, ME; Popa, VI, Chemical Characterization of Alkali Lignins Isolated from Rapeseed Stalks, POLYMERS 2026, 18, 4

5. Puitel, AC; Balan, CD; Nechita, MT,Comparative Assessment of Edible Oil Plant Lignocellulosic Biomass as Raw Material for a Fiber-Based Integrated Fractionation

POLYSACCHARIDES, 2026,7,1

6. Blaga, AC; Dragoi, EN; Cascaval, D; Puitel, AC; Galaction, AI, Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE, SCIENTIFIC REPORTS, 2025, 15,1

7. Ichim, M; Muresan, EI; Lisa, G; Ciolacu, F; Puitel, AC, Valorisation of Recycled Cotton as Reinforcement in Recycled Polypropylene Composites, TEXTILES, 2025, 5, 4

8. Puitel, AC; Bârjoveanu, G; Balan, CD; Nechita, MT, Medicago Sativa Stems-A Multi-Output Integrated Biorefinery Approach, POLYMERS, 2025, 17, 12

9. Puitel, AC; Balan, CD; Nechita, MT, Corn Stalks-Derived Hemicellulosic Polysaccharides: Extraction and Purification, POLYSACCHARIDES, 2025, 6, 1

10. Blaga, AC; Dragoi, EN; Tucaliuc, A; Kloetzer, L; Puitel, AC; Cascaval, D; Galaction, AI, Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids- Experimental, modelling and optimisation with Artificial Neural Networks, HELIYON, 2024, 10, 16

11. Turcov, D; Trifan, A; Puitel, AC; Cimpoesu, R; Zbranca-Toporas, A; Maxim, C; Suteu, D; Barna, AS. Preliminary Studies about Valorization of Acmella oleracea Bioactive Content in Modern Dermato-Cosmetic Applications to Combat Skin Oxidative Stress, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2024, 25,16

12. Tanasa, AM; Puitel, AC; Tataru-Farmus, RE; Suteu, D, Vegetable lignocellulosic wastes used as biosorbent for removal of Cu(II) from aqueous media

DESALINATION AND WATER TREATMENT, 2023, 93

13. Puitel, AC; Balusescu, G; Balan, CD; Nechita, MT, The Potential Valorization of Corn Stalks by Alkaline Sequential Fractionation to Obtain Papermaking Fibers, Hemicelluloses, and Lignin-A Comprehensive Mass Balance Approach, POLYMERS, 2024, 16, 11

14. Blaga, AC; Dragoi, EN; Gal, DG; Puitel, AC; Tucaliuc, A; Kloetzer, L; Cascaval, D; Galaction, AI, Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling, JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, 2024, 133

15. Nechita, MT; Suditu, GD; Puitel, AC; Dragoi, EN, Residence Time Distribution: Literature Survey, Functions, Mathematical Modeling, and Case Study-Diagnosis for a Photochemical Reactor, PROCESSES, 2023, 11,12

16. Puitel, AC; Balan, CD; Ailiesei, GL; Dragoi, EN; Nechita, MT, Integrated Hemicellulose Extraction and Papermaking Fiber Production from Agro-Waste Biomass, POLYMERS, 2023, 15, 23

17. Suditu, GD; Dragoi, EN; Puitel, AC; Nechita, MT, Technological and Economic Optimization of Wheat Straw Black Liquor Decolorization by Activated Carbon

WATER, 2023, 15,16

18. Puitel, AC; Suditu, GD; Dragoi, EN; Danu, M; Ailiesei, GL; Balan, CD; Chicet, DL; Nechita, MT, Optimization of Alkaline Extraction of Xylan-Based Hemicelluloses from Wheat Straws: Effects of Microwave, Ultrasound, and Freeze-Thaw Cycles, POLYMERS, 2023, 15,4

19. Turcov, D; Barna, AS; Apreutesei, OT; Trifan, A; Puitel, AC; Suteu, D, Valorization of Bioactive Compounds from Residual Saffron Biomass (Crocus sativus L.) to Obtain High Value Added Dermato-Cosmetic Products, BIORESOURCES, 2022, 17, 3

20. Suditu, GD; Dragoi, EN; Apostica, AG; Manaila, AM; Radu, VM; Puitel, AC; Nechita, MT, Artificial Intelligence-Based Tools for Process Optimization: Case Study-Bromocresol Green Decolorization with Active Carbon, ADSORPTION SCIENCE & TECHNOLOGY, 2022, 2022

21. Puitel, AC; Suditu, GD; Danu, M; Ailiesei, GL; Nechita, MT, An Experimental Study on the Hot Alkali Extraction of Xylan-Based Hemicelluloses from Wheat Straw and Corn Stalks and Optimization Methods, POLYMERS, 2022, 14, 9

22. Turcov, D; Barna, S; Profire, L; Iacob, AT; Lisa, G; Puitel, AC; Zbranca, A; Suteu, D, Physico-chemical characterization of the antioxidant mixture resveratrol-ferulic acid for applications in dermato-cosmetic products, FARMACIA, 2022, 70, 3

23. Suteu, D; Blaga, AC; Zaharia, C; Cimpoesu, R; Puitel, AC; Tataru-Farmus, RE; Tanasa, AM, Polysaccharides Used in Biosorbents Preparation for Organic Dyes Retaining from Aqueous Media, POLYMERS, 2022, 14, 3

24. Suteu, D; Blaga, AC; Cimpoesu, R; Puitel, AC; Tataru-Farmus, RE, Composites Based on Natural Polymers and Microbial Biomass for Biosorption of Brilliant Red HE-3B Reactive Dye from Aqueous Solutions, POLYMERS, 2021, 13, 24

25. Tanasa, A; Puitel, AC; Zaharia, C; Suteu, D, Sorption of reactive dyes from aqueous media using the lavender waste as biosorbent, DESALINATION AND WATER TREATMENT, 2021, 236,

26. Nechita, MT; Suditu, GD; Puitel, AC; Dragoi, EN, Differential evolution-based optimization of corn stalks black liquor decolorization using active carbon and TiO2/UV, SCIENTIFIC REPORTS,2021, 11, 1

27. Puitel, AC; Suditu, GD; Nechita, MT; Gavrilescu, D. Fractionation Of Agricultural Waste Biomass By Means Of Integrated Biorefinery Concept, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2021, 20, 3

28. Suditu, GD; Puitel, AC; Chesca, AM; Gavrilescu, D, Treatment of corn stalk pulping effluent by electro-coagulation, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2021, 20, 3

29. Daraban, GM; Zaharia, C; Rusu, L; Puitel, AC; Badeanu, M; Suteu, D, Ultrasonic Extraction For Preparation Of Plant Extracts With Bio-insecticidal Effects On Pest From Seed Deposits, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, 2021, 66, 2

30. Muresan, EI; Malutan, T; Lutic, D; Puitel, A; Cimpoesu, N; Istrate, B, Macrospherical Porous Metallosilicate Materials: Characterization And Applications, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2020, 19, 2

31. Frone, AN; Panaitescu, DM; Chiulan, I; Gabor, AR; Nicolae, CA; Oprea, M; Ghiurea, M; Gavrilescu, D; Puitel, AC, Thermal and mechanical behavior of biodegradable polyester films containing cellulose nanofibers, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2019, 138, 4

32. Allouch, D; Popa, M; Popa, VI; Lisa, G; Puitel, AC; Nasri, H, Characterization Of Components Isolated from Algerian Apricot Shells (Prunus Armeniaca L.), CELLULOSE CHEMISTRY AND TECHNOLOGY, 2019, 53, 9-10

33. Tofanica, BM; Puitel, AC, Optimization and design of alkaline pulping of rapeseed (Brassica napus) stalks, CHEMICAL ENGINEERING COMMUNICATIONS, 2019, 206, 3

34. Chesca, AM; Nicu, R; Tofanica, BM; Puitel, AC; Gavrilescu, D, Optimization of Soda Pulping Process Of Corn Stalks By Response Surface Modelling, CELLULOSE CHEMISTRY AND TECHNOLOGY,2018, 52, 9-10

35. Chesca, AM; Tofanica, BM; Puitel, AC; Nicu, R; Gavrilescu, D, Environmentally Friendly Cellulosic Fibers From Corn Stalks, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2018, 17, 7

36. Chesca, AM; Nicu, R; Tofanica, BM; Puitel, AC; Vlase, R; Gavrilescu, D, Pulping of Corn Stalks - Assessment for Bio-Based Packaging Materials, CELLULOSE CHEMISTRY AND TECHNOLOGY, 2018, 52, 7-8

37. Cobzaru, C; Marinoiu, A; Cernatescu, C; **Puitel, AC**; Soare, A, Experimental Studies for the Cinnamaldehyde Adsorption on Dealuminated Clinoptilolite Using as Carrier, REVISTA DE CHIMIE, 2018, 69, 3

38. Marin, N; Puitel, AC; Chesca, AM; Gavrilescu, D, Response Surface Modeling of Wheat Straw Pulping Using Sodium Carbonate and Sodium Hydroxide Mixtures, CELLULOSE CHEMISTRY AND TECHNOLOGY, 2017,51, 7-8

39. Puitel, AC; Moisei, N; Tofanica, BM; Gavrilescu, D, Turning Wheat Straw into a Sustainable Raw Material for Paper Industry, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2017, 16,4

40. Muresan, EI; Puitel, AC; Pui, A; Radu, CD; Tampu, D; Cimpoesu, N; Sandu, I, Hierarchically Bimodal Porous Metallosilicate Catalysts for Acetolysis of Epichlorohydrin, REVISTA DE CHIMIE, 2016, 67, 4

41. Puitel, AC; Marin, N; Puiu, P; Gavrilescu, D, Lignocellulosic Agricultural Residues - A Virgin Fibre Supply Solution for Paper-Based Packaging, CELLULOSE CHEMISTRY AND TECHNOLOGY, 2015, 49, 7-8

42. Gavrilescu, D; Puitel, AC, Bleaching Of Softwood Kraft Pulp with Oxygen and Peroxide, CELLULOSE CHEMISTRY AND TECHNOLOGY, 2015, 49, 3-4

43. Puitel, AC; Câmpean, T; Grad, F; Gavrilescu, D. Sustainable Use of Recovered Paper in The Romanian Paper Industry. Part II - Environmental Impact, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2014, 13, 8

44. Gilca, IA; Ghitescu, RE; Puitel, AC; Popa, VI, Preparation of lignin nanoparticles by chemical modification, IRANIAN POLYMER JOURNAL, 2014, 23, 5

45. Petrea, P; Amarioarei, G; Apostolescu, N; Puitel, AC; Ciovica, S, Some Aspects Of The Characterization Of Vegetable Gums: Prunus Persica (Plum) And Prunus Domestica (Cherry), CELLULOSE CHEMISTRY AND TECHNOLOGY, 2013, 47, 5-6

46. Puitel, AC; Tofanica, BM; Gavrilescu, D, Environmentally Friendly Vegetal Fiber Based Materials, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2012, 11, 3

47. Tofanica, BM; Puitel, AC; Gavrilescu, D, Environmental Friendly Pulping And Bleaching Of Rapeseed Stalk Fibers, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2012, 11, 3

48. Gavrilescu, D; Puitel, AC; Dutuc, G; Craciun, G, Environmental Impact Of Pulp And Paper Mills, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2012, 11, 1

49. Puitel, AC; Tofanica, BM; Gavrilescu, D; Petrea, PV, Environmentally Sound Vegetal Fiber-Polymer Matrix Composites, CELLULOSE CHEMISTRY AND TECHNOLOGY, 2011, 45, 3-4

50. Craciun, G; Dutuc, G; Botar, A; Puitel, AC; Gavrilescu, D, Environmentally Friendly Techniques for Chemical Pulp Bleaching, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2010, 9, 1

51. Gavrilescu, D., TofanicaB. M. Puitel , A. C. and Petrea P. (2009). "Sustainable Use Of Vegetal Fibers in Composite Materials. Sources of Vegetal Fibers." ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2009, 8, 3

52. Gavrilescu, D. and Puitel A.C , Zero discharge: Technological progress towards eliminating pulp mill liquid effluent. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2007, 6, 5

53. Puitel, AC, Bordeianu A, Gavrilescu D., On lignin reactions in TCF kraft pulp bleaching, Cellulose Chemistry and Technology, 2007, 41, 4-6

5. Articole publicat în revistă indexata in baze de date internaționale (BDI)

1. Atomi, A. I., Suditu, G. D., Puiţel, A. C., & Nechita, M. T. (2018). Experimental study on TiO2 promoted photo-degradation of methylene blue. Bulletin of Romanian Chemical Engineering Society, 5(1), 68-74.

2. SANDU, C. I., Chește, A. M., PUIȚEL, A. C., & Gavrilescu, D. (2017). Cellulosic fibers from Miscanthus. Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 63(67), 35.

3. Tofănică, B. M., Puitel, A. C., & Gavrilescu, D. (2011). Nonwoods: fiber sources for papermaking pulp production. Laboratory trials. Bul. Inst. Polit. Iasi, 57(3), 127-140.

4. Gavrilescu, D., Tofanica, B. M., Puitel, A. C., & Petrea, P. V. (2009). Vegetal Fibers in Composite Materials-Advantages and Limitations. Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 55, 85-104.

5. Adrian Cătălin Puiţel, Alina Bordeianu, Dan Gavrilescu – On lignin reactions in oxygen based kraft pulp bleaching, Buletinul Institutului Politehnic Iaşi secţiunea Chimie şi Inginerie Chimică, Tomul 52, fascicolul 1-2, 2007, ISSN: 1052-7011;

6. Adrian Cătălin Puiţel and Dan Davrilescu – Oxygen delignification of softwood kraft pulps. Some aspects regarding molecular weight of dissolved lignin în curs de publicare la Buletinul Institutului Politehnic Iaşi secţiunea Chimie şi Inginerie Chimică Tomul 52, fascicolul 3-4, 2007, ISSN: 1052-7011;

7. Adrian Cătălin Puițel, Dan Gavrilescu – Environmental Impact Aspects of Modern Pulp Bleaching Techniques, Buletinul Institutului Politehnic Iaşi, Tomul 51, fascicolul 3-4, p.95-105, 2006, ISSN: 1052-7011;

6. Articol/studiu publicat în revistă de specialitate neindexată în baze de date

1. Adrian Cătălin Puiţel, Dan Gavrilescu – Fabricarea celulozei sulfat – consecințe asupra mediului, Celuloză şi Hârtie, Volumul 55, numărul 1, p. 3-10, 2006, ISSN: 1220-9848;

2. Adrian Cătălin Puițel, Alina Mihaela Bordeianu, , Dan Gavrilescu – Delignificarea cu oxigen a celulozelor sulfat neînălbire – aspecte tehnologice şi de mediu, Celuloză şi Hârtie, Volumul 55, numărul 3, p. 3-10, 2006, ISSN: 1220-9848;

3. Adrian Cătălin Puiţel and Dan Davrilescu – Delignificarea cu oxigen a celulozei sulfat de răşinoase. Aspecte privind cinetica procesului şi caracteristicile ligninei reziduale dizolvate Celuloză şi Hârtie, Volumul 56, numărul 1, p. 3-10, 2007, ISSN: 1220-9848;

4. Adrian Cătălin Puiţel, Dan Gavrilescu, Crăciun Grigore, Alexandru Botar – Aplicaţii ale polioxometalaţilor ca agenţi de delignificare a celulozei sulfat de răşinoase, Celuloză şi Hârtie, , Volumul 56, numărul 3, p. 5-13, 2007, ISSN: 1220-9848;

5. Adrian Cătălin Puiţel, Dan Gavrilescu, Crăciun Grigore, Alexandru Botar – Aplicaţii ale polioxometalaţilor ca agenţi de delignificare a celulozei sulfat de răşinoase, Celuloză şi Hârtie, , Volumul 56, numărul 3, p. 5-13, 2007, ISSN: 1220-9848;

6. Adrian Cătălin Puiţel, Bogdan Marian Tofănică, Dan Gavrilescu – Delignificare celulozei sulfat de răşinoase cu aer în sistem presurizat şi în prezenţa POM Celuloză şi Hârtie, Volumul 7 numărul 1, 2008, ISSN: 1220-9848.

7. Publicații apărute în lucrări ale unor conferințe internaționale de specialitate

1. Gheorghe Dutuc, Alexandru Botar, Dan Gavrilescu, Grigore Craciun, Adrian Catalin Puitel Kraft pulping of softwood using phosphonates as additives, THE 14th INTERNATIONAL SYMPOSIUM ON CELLULOSE CHEMISTRY AND TECHNOLOGY, IAŞI – ROMANIA, September 8-10, 2010
2. Camelia Smaranda, Adrian Puiţel, Theodor Măluţan, Maria Gavrilescu The environmental behavior of pentachlorophenol in Iasi area soil, THE 14th INTERNATIONAL SYMPOSIUM ON CELLULOSE CHEMISTRY AND TECHNOLOGY, IAŞI – ROMANIA, September 8-10, 2010
3. Crăciun Grigore, Duţuc Gheorghe, Botar Alexandru, Puiţel Adrian Cătălin, Dan Gavrilescu, Kraft pulp bleaching with polioxometalates. Laboratory trials, THE 14th INTERNATIONAL SYMPOSIUM ON CELLULOSE CHEMISTRY AND TECHNOLOGY, IAŞI – ROMANIA, September 8-10, 2010

8. Proiecte de cercetare-dezvoltare pe bază de contract/ grant

P1 **UEFSCDI PN-III-P2-2.1-PED-2021-3384** (2022-2024) Tehnologie sustenabilă pentru procesarea reziduurilor lignocelulozice rezultate din culturile agricole în vederea integrării în economia circulară Sustainable Technology For Lignocellulosic Crop Residues Processing Towards Circular Economy Integration – SUSTECLCR, https://sustelcr.icpm.tuiasi.ro/index.html, (https://sustelcr.icpm.tuiasi.ro/index.html#) **Director, 2022-2024**

P2 Grant intern finanțat TUIASI Fracționarea biomasei în sistem integrat de biorafinare pentru obținerea de produse sustenabile (GnaC2018_15/2019), **Director, 2019**

P3 UEFSCDI Bridge grant PN-III-P2-2.1-BG-2016-0016 - 64BG/2016 Strategii şi soluţii pentru eco-proiectarea şi eco-inovarea unor procese şi produse din materiale reciclabile în contextul economiei circulare (PN-III-P2-2.1-BG-2016-0016), **MEMBRU** echipă de cercetare ,2016-2018

P4 UEFSCDI Bridge grant contract cod PN-III-P2-2.1-BG-2016-0016 - 1BG/2016, Ambalaje alimentare pe bază de fibre vegetale obținute prin metode de biorafinare, **MEMBRU** echipă de cercetare , 2016-2018

P5 CNMP- PNCDI 2 Ambalaje speciale din fibre celulozice – o alternativă viabilă pentru protecția şi securitatea alimentelor, SAFEPACK*,* **MEMBRU** *echipă de cercetare 2008-2011.*
P6 CNCSIS IDEI ID-308 - Studii integrate privind obţinerea, comportarea şi impactul asupra mediului a unor compozite celulozice pe bază de materiale reciclabile, **MEMBRU** echipă de cercetare , 2009
P7 CNCSIS CEEX 729 MENER Compuşi polioxometalici cu activitate catalitică oxidativă pentru aplicaţii de vârf – POMALB. **MEMBRU** echipă de cercetare , 2007-2008
P8 CNCSISTD tema 47 Studiul unor posibilități de reducere a impactului ecologic la înălbirea celulozei sulfat ,**director** perioada 2007-2008,

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Lista de lucrări în domeniul de studii universitare de licență
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B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Nicolae Apostolescu, Maria Harja, Gabriela-Antoaneta Apostolescu, Materiale inovative și procedee avansate pentru aplicații funcționale, Editura EcoZone Iași, 2026, 227 p., ISBN 978-606-8625-48-5, DOI: 10.5281/zenodo.18709216
2. Gabriela-Antoaneta Apostolescu, Nicolae Apostolescu, Chimie anorganică descriptivă: elementele din blocul p, Editura EcoZone Iasi, 2026, 347 p., ISBN 978-606-8625-47-8, DOI: 10.5281/zenodo.18709387
3. Gabriela-Antoaneta Apostolescu, Nicolae Apostolescu, Chimie anorganică descriptivă: elementele din blocul s, EcoZone, Iași 2025, ISBN 978-606-8625-46-1, 152 pg., DOI: 10.5281/zenodo.18709330
4. G. A. Apostolescu, N. Apostolescu, Materii prime minerale: bazele identificării mineralelor și rocilor, Ed. Ecozone, 2022, 222p., ISBN 978-606-8625-33-1
5. R. E. Tătaru Farmus, C. Cernătescu, C. Cobzaru, G.A. Apostolescu, N. Apostolescu - Schiff bases and its potential use for wastewater treatment, Current topics, concepts and research priorities in environmental chemistry, vol. IV, ed. Carmen Zaharia, Ed. Universității "Al. I. Cuza" Iași, 2015, pp. 53-68.
6. N. Apostolescu, G.A. Apostolescu - Materiale Anorganice Speciale, Pigmenți, Ed. ECOZONE, Iași, 2014, 211p., ISBN 978-606-8625-00-3.
7. Olimpius Istrate, Petre Botnariuc, Simona Găbureanu, Gabriela Apostolescu, Dezvoltarea profesionala a cadrelor didactice de științe tehnologice, Ed. UNIVERSITARÃ, București, 2013, 110p., DOI: 10.5682/9786065917385, ISBN 978-606-591-738-5
8. Sutiman D., Căilean A., Vizitiu M., Sibiescu D., Apostolescu G - Aplicații practice privind sinteza si caracterizarea compușilor anorganici, Ed. PIM, Iasi, ISBN 978-606-520-622-9, 2009
9. Apostolescu, G. Carja G., Vizitiu M., Chimia fizica a sistemelor polidisperse. Aplicatii practice –Ed PIM, 2009, ISBN 978-606-520-630-4, 2009
10. Sutiman D., Căilean A., Foca N., Vizitiu M., Sibiescu D., Apostolescu G – Chimie anorganica – Practicum, caiet de laborator, Ed. PIM, 2008, ISBN 973-716-726-0
11. Sutiman D., Căilean A., Ştefancu E., Foca N., Vizitiu M., Sibiescu D., Apostolescu G., Nechita M.T. - Chimie anorganică. Caiet de laborator, Ed. PIM, Iaşi, 2005 - ISBN: 973-716-235-8
12. Roşca I., D. Sutiman, N. Foca, E. Ştefancu, A. Căilean, M. Vizitiu, D. Sibiescu, G. Apostolescu, M. Nechita, Chimie anorganică I – aplicaţii practice, Ed. Cermi, 2004.
13. I. Rosca, D. Sutiman, A. Căilean, E. Ştefancu, N. Foca, M. Vizitiu, D. Sibiescu, G.

Apostolescu, L. Oprea, Experimente şi teste de chimie anorganică, Ed. PIM, 2004. ISBN 973-7967-82-8

14. I. Rosca, E. Stefancu, N. Foca, D. Sutiman, A. Cailean, D. Sibiescu, M. Vizitiu, Gabriela Apostolescu -Chimie anorganica experimentala, Ed. VIE, Iasi, 2002.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Repere metodologice pentru aplicarea curriculumului la clasa a IX-a, În anul școlar 2021-2022, învățământ profesional și tehnic (ipt), Ministerul Educației, Centrul Național de Dezvoltare a Învățământului Profesional și Tehnic, Centrul Național de Politici și Evaluare în Educație, 2021

2. Streinu – Cercel, G., Vasile, G., Garabet, M., Velea, S., Cirstoiu, J., Capita, L., Petrescu, P., Fat, S., Apostolescu, G., Duta, N., Capita, C., Istrate, O. (2010) —Curriculum integrat pentru domeniile stiintific si umanist, http://proiecte.pmu.ro/c/document_library/get_file?p_l_id=47875&folderId=105570&name=DLFE-3307.pdf

3. P. Petrescu, G. Apostolescu, C. Capiță, L. Căpiță, J. Cârstoiu, M. Garabet, O. Istrate, G. Vasile, G. Streinu-Cercel, (2013) „Ghid metodologic de aplicare la clasă a curriculum-lui inter- și transdisciplinar pentru domeniile științific și umanist”, documente în cadrul proiectului „Proces educațional optimizat în viziunea competențelor societății cunoașterii”, http://proiecte.pmu.ro/c/document_library/get_file?p_l_id=47875&folderId=105570&name=DLFE-4419.pdf

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI

1. N. Apostolescu, R. E. Tataru Farmus, M. Harja, M. A. Vizitiu, C. Cernatescu, C. Cobzaru, G. A. Apostolescu, Photocatalytic Removal of Antibiotics from Wastewater Using the CeO_2/ZnO Heterojunction, Materials 16 (2), 850, 2023.

2. Nutescu Duduman C., Gómez de Castro C., Apostolescu G. A., Ciobanu G., Lutic D., Favier L., Harja M., Enhancing the TiO_2-Ag Photocatalytic Efficiency by Acetone in the Dye Removal from Wastewater, Water 14 (17), 2711, 2022.

3. Claudia Cobzaru, Genoveva Bordeianu, Gabriela Antoaneta Apostolescu, Ramona-Elena Tataru-Farmuş, Nicolae Apostolescu and Corina Cernatescu, Thermal and photochemical degradation of cooked sunflower, olive and palm oils, Rev. Roum. Chim., 66(7), 645-652, DOI: 10.33224/rrch.2021.66.7.07, 2021,

4. Claudia Cobzaru, Adriana Marinoiu, Gabriela Antoaneta Apostolescu, Ramona Elena Tataru-Farmus, Corina Cernatescu, Mathematical Modeling For Kinetics Of Fe3+ Exchange On Pretreated Analcime, Rev. Roum. Chim., 2019, 64(5), 403-407 Doi: 10.33224/rrch.2019.64.5.03

5. Nicolae Apostolescu, Corina Cernătescu, Ramona-Elena Tătaru Fărmuș, Claudia Cobzaru, Gabriela Antoaneta Apostolescu, Promoting effect of ceria on the catalytic activity of CeO2-ZnO polycrystalline materials, Environmental Engineering and Management Journal, 17(4), pp. 765-770, 2018.

6. C. Cobzaru, O. Gherghescu, A. E. Aursulesei, C. Ibanescu, M. Danu, G. A. Apostolescu, C. Cernatescu, Rheological Behaviour of Cold Creams with Cinnamon and Thuja Alcoholic Extract, REVISTA DE CHIMIE, 68, 9, 2017, p. 1959-1962

7. Corina Cernatescu, Claudia Cobzaru, Gabriela Antoneta Apostolescu, Nicolae Apostolescu, Adriana Marinoiu, Quaternization of N-methylated phenyl benzimidazole azomethines to benzimidazolium salts, Revue Roumaine de Chimie 61 (6-7), pp. 591-596, 2016.

8. Claudia Cobzaru, Adriana Marinoiu, Gabriela Antoaneta Apostolescu, Ramona Elena Tataru-Farmus, Nicolae Apostolescu, Corina Cernatescu, Ammonia removal from aqueous solution by ion exchange using clinoptilolite and verification of the process through a numerical study, Progress of Cryogenics and Isotopes Separation, 19 (1) , pp. 27-34, 2016.
9. Claudia Cobzaru, Nicolae Apostolescu, Gabriela Antoaneta Apostolescu, Adriana Marinoiu, Mihaela Silion, Corina Cernătescu, Sunflower oil behaviour during storage time, Revista de Chimie (Bucuresti), 67(4), pp. 724-727, 2016.
10. Claudia Cobzaru, Genoveva Bordeianu, Gabriela Antoaneta Apostolescu, Adriana Marinoiu, Corina Cernatescu, Quality Evalution Of The Olive Oil During Storage Time, Revue Roumaine De Chimie (2016) 61 (8-9), 705-710.
11. C. Cobzaru, A. Marinoiu, G. A. Apostolescu, R. E. Tataru-Farmus, N. Apostolescu, C. Cernatescu, Behaviour of pretreated clinoptilolite volcanic tuff used in ion exchange process with Ca2+, Ni2+ and NH4+ ions described by a numerical study, Revue Roumaine de Chimie, , 4-5, p. 427, (2016).
12. Claudia Cobzaru, Genoveva Bordeianu, Adriana Marinoiu, Gabriela Antoaneta Apostolescu, Cristina Cobzaru, Ramona Elena Tataru-Farmus, Doina Ungureanu, Corina Cernatescu, Nicolae Apostolescu, The Effect of Storage Time on The Composition of The Olive and Sunflower Oils, Key Engineering Materials, 660, pp 132-137, 2015.
13. G. A. Apostolescu, C. Cernatescu, C. Cobzaru, R. E. Tataru-Farmus, N. Apostolescu, Studies on the photocatalytic degradation of organic dyes using CeO2-ZnO mixed oxides, Environmental Engineering and Management Journal, 14, 2, p. 415-420 (2015).
14. M. D. Tutulea, I. Cretescu, I. Rosca, G. Apostolescu, New Coordination Compounds of Ni(II) and Cu(II) with Succinimide Derivatives, REV. CHIM. (Bucharest), 63, (8), p 787-791 (2012).
15. N. Apostolescu, G. Carja, Gabriela Apostolescu, E. Husanu, A Green Route to Synthetisize CeO2 Nanoparticles - Environmental Engineering and Management Journal, 8(5), 1029-1033, ISBN 1582-9596 (2009)
16. L. Georgescu, Gabriela Antoaneta Apostolescu, Ana Daniela Georgescu, Ovidiu Georgescu, Maria Apostolescu - Economic Aspects regarding the Corrosion of Condensers - Coolers Equipment at Topside of Black Oil Vacuum Distillation Column - Revista de Chimie (Bucureşti), 60(4), 2009, p. 352 – 355
17. O. R. Hauta, A. Macovei, G.A. Apostolescu, D. Ganju, Al. Cecal, Radiolytic output of hydrogen as environmentally friendly energy vector, Environmental Engineering and Management Journal, 2009, 8, 1, 91-96, ISSN 1582-9596
18. Roşca, I., Sutiman, D., Crudu, M., Sibiescu, D., Cailean, A., Vizitiu, M., Apostolescu, G, Study on new complex compounds of Ti(IV) and Zr(IV) in aqueous solutions: Synthesis, stability and application in cleaner technologies of natural leather, Environmental Engineering and Management Journal 7 (3), pp. 241-248, 2008
19. Redjala, T., Remita, H., Apostolescu, G., Mostafavi, M., Thomazeau, C., Uzio, D., Bimetallic Au-Pd and Ag-Pd clusters synthesised by γ or electron beam radiolysis and study of the reactivity/structure relationships in the selective hydrogenation of buta-1,3-diene, OIL AND GAS SCIENCE AND TECHNOLOGY 61 (6), pp. 789-797, 2006.
20. G. Ciobanu, G. Carja, Gabriela Apostolescu, I. Taraboanta, Structural, electrical and optical properties of thin ZnO films prepared by chemical precipitation, SUPERLATTICES AND MICROSTRUCTURES 39 (2006) 328–333
21. G. Surendran, Gabriela Apostolescu, M. Tokumoto, E. Prouzet, L. Ramos, P. Beaunier, P. J. Kooyman, A. Etcheberry, and H. Remita, From Self-Assembly of Platinum Nanoparticles to Nanostructured Materials, SMALL 2005, 1, No. 10, 964 – 967
22. Iordache, I., M. Nechita, N. Aelenei, I. Roşca, G. Apostolescu, M. Peptenariu, Sonochemical enhancement of cyanide ions degradation from wastewater in the presence of hydrogen peroxide, POLISH JOURNAL OF ENVIRONMENTAL STUDIES, 2003, vol. 12, No. 6, ISSN 1230-1485
23. Roşca, I., L. Oprea, D. Sutiman, A. Căilean, E. Neagu, M. Vizitiu, D. Sibiescu, G. Apostolescu, Syntheses and Study of some New Coordination Polymers Mn(II) with Semiconductor Properties, FERROELECTRICS, 294. 155-164, 2003, ISSN 0015-0193
24.

- Articole publicate în volume indexate ISI Proceedings

- Articole indexate în baze de date internaţionale

1. Tătaru-Fărmuș R.E., Apostolescu N., Cobzaru C., Apostolescu G.A., Cernătescu C., Drăgoi E.N., Vizitiu M.A., Poroch M., Study on the Viscosity of Solvents Based on Alanine and Potassium Carbonate, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 69 (73), 2, 9-20, https://doi.org/10.5281/zenodo.8162195, 2023.
2. Cobzaru C., Apostolescu G.A., Vizitiu M.A., Tătaru-Fărmuș R.E., Apostolescu N., Cernătescu C., Study on the Effect of UV Radiation Over Time on the Oily Maceration of Hot Peppers, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 69 (73), 2, https://doi.org/10.5281/zenodo.8162852, 2023.
3. Cobzaru C., Cobiliță C.E., Danu M., Apostolescu G.A., Cernătescu C., Rheological Study of Cosmetic Creams with Basil Extracts Obtained by Maceration, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 69 (73), 3, https://doi.org/10.5281/zenodo.10072397, 2023.
4. Martinaș-Ioniță S.L., Apostolescu G.A., Harja M., Considerations for Recovering Valuable Materials from Electronic Waste, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 69 (73), 3, https://doi.org/10.5281/zenodo.10072445, 2023.
5. Nicolae Apostolescu, Mihaela Aurelia Vizitiu, Corina Cernătescu, Ramona Elena Tătaru-Fărmuș, Claudia Cobzaru, Gabriela Antoaneta Apostolescu, Current trends in the recovery of precious metals from electrical and electronic waste, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 68, 72, 1, DOI: 10.5281/zenodo.7533233, 2022.
6. G. A. Apostolescu, M. A. Vizitiu, C. Cernătescu, C. Cobzaru, R. E. Tătaru-Fărmuș, N. Apostolescu, Thermochromic Materials: Oxides With Applications In Intelligent Technologies, The Bulletin Of The Polytechnic Institute From Iaşi Chemistry And Chemical Engineering Section, 67, 1, 2021.
7. Harja, Maria; Hultuană, Elisabeta; Apostolescu, Nicolae; Apostolescu, Gabriela Antoaneta; Tătaru–Fărmuș, Ramona-Elena; Viscosity Of Potassium Carbonate Solutions Promoted By New Amines, Journal of Engineering Sciences and Innovation B. Chemical Engineering, Materials Science and Engineering, 5, 3 pp. 239 - 246, 2020
8. Apostolescu, Nicolae; Cernătescu, Corina; Cobzaru, Claudia; Tătaru-Fărmuș, Ramona Elena; Vizitiu, Mihaela Aurelia; Apostolescu, Gabriela Antoaneta; Recent Advances in Anticorrosive Phosphate Pigments, Buletinul Institutului Politehnic Iași, 66 ,3 - secția Chimie și Inginerie Chimică, pp. 23-36, 2020
9. Cobzaru, Claudia; Ştefan, Roxana; Bordeianu, Genoveva; Apostolescu, Gabriela Antoaneta; Tătaru-Fărmuș, Ramona-Elena; Apostolescu, Nicolae; Cernătescu, Corina; Empirical Modelling for the Kinetic of the Natural and Artificial Dehydration Process for Apples and Grapes, Buletinul Institutului Politehnic Iași, 66, 1 - secția Chimie și Inginerie Chimică, pp. 21-30, 2020
10. Apostolescu, Nicolae; Cernatescu, Corina; Cobzaru, Claudia; Tataru, Farmus Ramona Elena; Vizitiu, Mihaela Aurelia; Drobota, Mioara; Apostolescu, Gabriela Antoaneta; Photocatalytic performance of fluorescent ZnS nanocolloids used for degradation of organic compounds, Achievements and perspectives of modern chemistry, pp.163-163, 2019 (R. Moldova)
11. Ramona-Elena Tătaru-Fărmuș, Corina Cernătescu, Gabriela Antoaneta Apostolescu, Claudia Cobzaru, Nicolae Apostolescu, Mihaela Aurelia Vizitiu, Raluca-Elena Baciu - Recycling Electronic Waste. Study for the Recovery of Precious Metals, Buletinul Institutului Politehnic Din Iaşi, Secţia Chimie Şi Inginerie Chimică Volumul 65 (69) (4), p. 15-26, 2019.
12. Nicolae Apostolescu, Iulian Moroșanu, Corina Cernătescu, Claudia Cobzaru, Ramona-Elena Tătaru-Fărmuș, Mihaela Aurelia Vizitiu, Gabriela Antoaneta Apostolescu - Photocatalytic degradation of cationic tri-arylmethane dye - Methyl Violet 10B on ZnS catalysts under UV irradiation, Buletinul Institutului Politehnic Din Iaşi, Secţia Chimie Şi Inginerie Chimică Volumul 65 (69) (3), p. 17-25, 2019.
13. Cătălina Roșca, Valeriu Șunel, Mihaela Crețu,Mariana Diaconu, Bogdan Istrate, Gabriela Lisă, Mihai Imbrișcă, Corneliu Stan, Gabriela Antoaneta Apostolescuand Daniel Sutiman, Characterization

and Toxicity Analysis of Some Divalent Transition Metals Complexes With N-(p-nitrobenzoyl)-L-glycine, Bul IPI, Chimie si Inginerie Chimica, Vol 65 (69), Nr 1, 2019

14. Cătălina Roşca, Valeriu Şunel, Mihaela Creţu, Mariana Diaconu, Daniel Mareci, Carmen Mîţă, Cornel Stan, Gabriela Antoaneta Apostolescu And Daniel Sutiman, Synthesis, Characterization and Biological Activity Evaluation of Some Divalent Tranzitional Metals Complexes with N-p-Nitrobenzoyl-D-L- Phenylglycine, Bul IPI, Chimie si Inginerie Chimică, Vo 64 (68), Nr 3, 2018
15. Nicolae Apostolescu, Corina Cernătescu, Claudia Cobzaru, Ramona-Elena Tătaru-Fărmuș, Mihaela Aurelia Vizitiu And Gabriela Antoaneta Apostolescu, Inorganic Transparent Pigments - Optical Properties, Bul IPI, Chimie si Inginerie Chimică, Vo 64 (68), Nr 3, 2018 Vol 64 (68), nr. 4, 2018
16. Nicolae Apostolescu, Ramona Elena Tataru Fărmuș, Corina Cernătescu, Claudia Cobzaru, Mihaela Aurelia Vizitiu, Gabriela Antoaneta Apostolescu, Studies on the Photocatalytic Decomposition of Organic Dyes Using Mesoporous Metal Oxides, Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 63(67)(1), p. 29 - 37, 2017.
17. Claudia Cobzaru , Mihaela Alina Matcabojă (Gherasim), Adriana Marinoiu , Gabriela Antoaneta Apostolescu, Ramona Elena Tataru Fărmuș, Corina Cernătescu, Characteristics Of Oil Obtained From Grape Seeds Separated From Dried And Fresh Marc, Bul IPI Secţia Chimie si Inginerie Chimică, Vol 63 (67), Nr 1, 2017.
18. Corina Cernatescu, Claudia Cobzaru, Gabriela Antoneta Apostolescu, Nicolae Apostolescu, Adriana Marinoiu, Quaternization of N-methylated phenyl benzimidazole azomethines to benzimidazolium salts, Revue Roumaine de Chimie 61 (6-7), pp. 591-596, 2016.
19. G. A. Apostolescu, R. E. Tataru-Fărmuş, N. Apostolescu, C. Cernătescu - Columnar zinc oxide synthesized under solvothermal conditions, Buletinul Institutului Politehnic din Iaşi, tom LX (LXIV), fasc. 1, secţia Chimie si Inginerie Chimică, 43-48, (2014), ISSN 0254-7104,
20. G. A. Apostolescu, N. Apostolescu - Recent advanced in Micro→Nano porous CeO2 synthesis and characterizations, Buletinul Institutului Politehnic din Iaşi, tom LIX (LXIII), fasc. 1, secţia Chimie si Inginerie Chimică, 9-19, (2013), ISSN 0254-7104,
21. Nicolae Apostolescu, Gabriela Antoaneta Apostolescu - Inorganic Pigments: Synthesis And Luminescent Properties . Buletinul Institutului Politehnic din Iaşi, tom LIX (LXIII), fasc. 4, secţia Chimie si Inginerie Chimică, 59 - 72, (2013), ISSN 0254-7104
22. D Sutiman, G. A. Apostolescu, N. Foca, D. Mareci, A. Cailean - A new way for V2O5 /Fe2O3 separation and recovery from spent catalysts, Buletinul Institutului Politehnic din Iaşi, tom LIX (LXIII), fasc. 2, secţia Chimie si Inginerie Chimică, 49-59, (2013), ISSN 0254-7104,
23. D. Mardare, M. Bîrsanu, G. A. Apostolescu, G. Cârjă, Layered Double Hydroxides as Inorganic Versatile and Multifunctional Materials, Buletinul Institutului Politehnic din Iaşi, tom LVII (LXI), fasc. 3, secţia Chimie si Inginerie Chimică, 43-62, (2011)
24. G. A. Apostolescu, I.C. Luchian, N. Apostolescu, J. Cozma, Characterization of Ceria-(Ni, Fe, Co) Mixed Oxides Synthesised Via Solid State Reaction, Buletinul Institutului Politehnic din Iaşi, tom LVI (XL), fasc. 3, secţia Chimie si Inginerie Chimică, 73-80, (2010).
25. I. Spatarescu, I. Rosca, A. Cailean, D. Sibiescu, Gabriela Apostolescu, New Compound of Cu(II) with Ligand 1-(3,5-Dibromine-2-Hydroxy Phenil)-2-(4-Methyl Phenyl)-Sulfanyl Ethanone, Buletinul Institutului Politehnic din Iaşi, tom LVI (XL), fasc. 1, secţia Chimie si Inginerie Chimică, 41-49, (2010).
26. Roşca, I., M. Nechita, G. Apostolescu, Sonochemistry and the chemical effects of ultrasound, Buletinul Institutului Politehnic Iaşi, 2003, tom XLIX (LIII), fasc 5, ISSN 0254-7104
27. Rosca I., D. Sibiescu, M. Vizitiu, L. Oprea, A. Cailean, D. Sutiman,G. A. Apostolescu, - New Ni (II) Polyphosphinates with Insular and Anticorosive Protecting Properties - The 6-th European Conference on Applications of Polar Dielectrics, September 2-5, 2002, Aveiro, Portugal
28. Roşca I., Ştefancu E., Foca N., Rusu A., Apostolescu G. A., Structural considerations on some inorganic polymers of Fe (III) with phosphorus containing rings, Phosphorus, Sulfur and Silicon, 2001 Vol. 169, pp305-308

29. Simion, A., M. Apostolescu, Şt. Ivăşcan, G. Apostolescu, Încercări gravimetrice pentru evaluarea comportării la coroziune a metalelor din sistemul de răcire al centralelor electrice, Buletinul Institutului Politehnic Iaşi, 2003, tom XLIX (LIII), fasc 5, ISSN 0254-7104
30. Simion, A., M. Apostolescu, Şt. Ivăşcan, G. Apostolescu, Contribuţii privind utilizarea metodei potenţiometrice pentru selectarea inhibitorilor de coroziune, Buletinul Institutului Politehnic Iaşi, 2003, tom XLIX (LIII), fasc 5, ISSN 0254-7104
31. Rosca I., M. Nechita, G. Lisa, G. Apostolescu, Thermal stability of some lanthanum complexes with beta-diketones" Buletinul Institutului Politehnic Iaşi, 2003, tom XLIX (LIII), fasc. 5, 105-109, ISSN 0254-7104
32. Gabriela-Antoaneta Apostolescu, N. Apostolescu, The study of some termostabilizers on dielectric properties of poly(vinyl chloride) (Studiul acţiunii unor termostabilizatori asupra proprietăţilor dielectrice ale PVC-ului), Buletinul Institutului Politehnic din Iaşi, tom. LI(LV), fasc. 5, 2002, pag. 15-21
33. D. Sibiescu, I. Roşca, M. Vizitiu, A. Căilean, G. Apostolescu, Study of the Mordant Yellow 10 DYE complexed with Co(II), Anals of West University of Timişoara, vol. 10 (2), 2001, ISSN 1453-7672, p. 615-620
34. D. Sibiescu, I. Rosca, G. Carja, G. Apostolescu, Complexes with Cr(III) and p-nitroaniline-acid salicilic dye, Anals of West University of Timişoara, vol. 10 (2), 2001, ISSN 1453-7672, p. 621-626
35. N. Apostolescu and G. A. Apostolescu - Chemical treatment of volcanic tuffs for and utilization as a support for catalyst, Buletinul Institului Politehnic din Iaşi, tom. XLVII(IL), fasc. 5, 2001, p. 101-106
36. N. Apostolescu, G.A. Apostolescu and V. Dăscăleanu - Anticorrosive protection of OL-37 steel with "Arginpol" paint (Protecţia anticorosivă a oţelului cu OL-37 cu ajutorul vopselei "Arginpol"), Analele Universităţii "Aurel Vlaicu" din Arad, seria Chimie, fascicola Chimie şi Protecţia Mediului, 2000, p. 291-296.
37.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Nicolae Apostolescu, Corina Cernatescu, Ramona Elena Tataru Farmus, Claudia Cobzaru, Alexandra Blaga, Adriana Marinoiu, Gabriela Antoaneta Apostolescu, Nanoporous CeO2-ZnO as Efficient Material for the Degradation of Organic Dye under UV Irradiation, International Conference on Advanced Technology & Sciences, ICAT'15, Antalya, Turkey, August 04-07, 2015, Proceedings of the 2th International Conference on Advanced Technology & Sciences, ISBN: 978-605-9119-26-9, pp. 291-296, 2015.
2. N. Apostolescu, M.T. Nechita, G.A. Apostolescu, Synthesis Of La-Fe-O Perovskite-Type Oxides For Removal Of NOx From Exhaust Gases - Bulletin of the Transilvania University of Braşov, Supplement: BRAMAT 2007, vol. IV, 633-636, ISSN 1223-9631, (2007).
3. G. A. Apostolescu, D. Sutiman, N. Apostolescu, M. T. Nechita Easy way to get self assembling platinum nanoparticles, International Conference on Materials Science & Engineering - BRAMAT 2007, Braşov, February 24-26, 2007.
4. Nechita Mircea Teodor, Apostolescu Gabriela, Sutiman Daniel, Rosca Ioan, FTIR Spectroscopy with probe Molecule Applied for Iron-Containing zeolites Characterization, Bul Instit politehnic Iasi, tom L (LV), fasc 5, 2006, Sectia Matematica, Mecanica teoretică, Fizica, p, 105-110, ISSN 1244-7863

5. Nechita Mircea Teodor, Apostolescu Gabriela, Sutiman Daniel, Rosca Ioan, FTIR Spectroscopy with probe Molecule Applied for Iron-Containing zeolites Characterization, Bul Instit politehnic Iasi, tom L (LV), fasc 5, 2006, Sectia Matematica, Mecanica teoretica, Fizica, p, 105-110, ISSN 1244-7863
6. Gabriela Antoaneta Apostolescu, M. T. Nechita, M. Vizitiu, N. Apostolescu, D. Sibiescu, Evolution of UV-Vis Absorption Spectra of Platinum Nanoparticles in Pt(acac)2/Acetone/CO System, Buletinul Institutului Politehnic din Iaşi, tom. L(LV), fasc. 5, Secţia Matematică. Mecanică Teoretică. Fizică, p. 41-48, 2006
7. N. Apostolescu, M.T. Nechita, G. A. Apostolescu, Selective catalytic reduction of NO by NH3 over silver supported MCM-41 mesoporous material, Analele Ştiinţifice ale Universităţii "Al. I. Cuza" Iaşi, Seria Chimie, tomul XIV, nr. 2, iulie-decembrie 2006
8. Gabriela Antoaneta Apostolescu, D. Sutiman, M. T. Nechita, N. Apostolescu, Powerful Method to Obtain Stabile Gold Nanoparticles, Scientific and Technical Bulletin, Series: Chemistry, Food Science & Engineering, - Arad year XII, vol. 11, p. 3 - 7. 2006
9. M. T. Nechita, N. Apostolescu, D. Sutiman, Gabriela Antoaneta Apostolescu, Problems in Fe-ZSM-5 Preparation: Ferric and Ferrous Oxalate Methods, Scientific and Technical Bulletin, Series: Chemistry, Food Science & Engineering - Arad, year XII, vol. 11, p. 75 - 80, 2006
10. G.A. Apostolescu, I. Iordache, A. Cailean, N. Apostolescu, M.T. Nechita - Ultrasound Irradiation: A Simple Method to Improve the Efficiency of Cyanide Electro-Oxidation and Electro-Chlorination. - International Conference on Materials Science & Engineering - BRAMAT 2005, Braşov, February 24-26. - ISBN 973-635-454-7
11. G.A. Apostolescu, M.T. Nechita, N. Apostolescu, I. Iordache - Tailoring the Platinum Nanoparticles Dimensions by Radiolytic Synthesis Method. - International Conference on Materials Science & Engineering - BRAMAT 2005, Braşov, February 24-26. - ISBN 973-635-454-7
12. G.A. Apostolescu, M.T. Nechita, M. Vizitiu, I. Iordache, Cercetări privind obţinerea radiolitică a nano-particulelor de aur depuse pe suport de carbon, Analele Universităţii „Aurel Vlaicu” din Arad, Seria Chimie, Fascicola Chimie şi protecţia mediului, (1-5), ISSN 1582-3415. 2004.
13. M.T. Nechita, G. A. Apostolescu, Studiul FTIR al catalizatorului Fe-ZSM-5 pentru descompunerea directă a N2O, Analele Universităţii „Aurel Vlaicu” din Arad, Seria Chimie, Fascicola Chimie şi protecţia mediului, (128-133), ISSN 1582-3415, 2004.
14. P. Pissis, G. Apostolescu, A. Cailean, G. Polizos, I. Rosca, N. Apostolescu, I. Rusu, Influence of some Thermal Stabilizers on the Dielectric Properties of Poly(Vinyl Chloride), International Conference on Advances in Processing, Testing and Application of Dielectric Materials APTADM’2001, September 17-19, Wroclaw, Poland, Przegląd Elektrotechniczny - Zeszyt Specjalny, ROK LXXVII, Ed. Sigma Not, pp 187-188, 2001.

J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract
Director de contract nr. 598 P /07.04.2016, *Efectuarea unui studiu privind proprietățile fizico-chimice pentru obținerea unui produs roll-on din alaun de potasiu si aluminiu amorf*, Global Alliance SRL, Iași

Membru în colectiv
Specialist în domeniul didactic și pedagogic, activitați de formare STEM în proiect UNICEF contract no. 43310013, 2020-2021

- Participarea în proiectul Curriculum În Context. Adaptări Didactice Pentru Elevi În Risc De Abandon, Nr. OM de acreditare/data: 3343/16.03.2018 (formator, expert in educatie)
- StepUP, ROSE_StepUP_AG SGNU nr. 195/2019, Proiectul privind Învățământul Secundar (ROSE), Îmbunătățirea ratei de retenție a studenților in primul an de studii universitare, prin prevenirea abandonului de la Facultatea Inginerie Chimica si Protecția Mediului "Cristofor Simionescu", Activitati de indrumare, consiliere si tutorat profesor-student
- Reacționează Chimic cu Mediul de la TUIași, nr. 129/SGU/PV/II, Proiectul privind Învăţământul Secundar (ROSE) 2019-2021, SCHEMA DE GRANTURI PENTRU UNIVERSITĂŢI – Programe de vară de tip punte (SGCU – PV), activități didactice.
- Experimentează și descoperă fascinația studenției, grant nr. 326/SGU/PV/III/18.06.2020, Proiectul privind Învăţământul Secundar (ROSE) 2019-2021, SCHEMA DE GRANTURI PENTRU UNIVERSITĂŢI – Programe de vară de tip punte (SGCU – PV) activități didactice.
- Membru în echipa de proiect UNICEF Social inclusion through the provision of integrated social services at community level – Bacau County, RO25-0002, 2017-2020.
- Membru in echipa de contract nr. 818 P /2016, Studiu asupra cerii de albine de diferite calităţi în vederea utilizării ei în produsele cosmetice,
- Participarea în proiectul Healthy is the new cool. Give it a try! 2016, BEST Group Iasi, Universitatea Tehnică “Gheorghe Asachi” Iași, Curs și suport de curs cu tema “Diversity and Polydispersity in Chemistry.
- Membru în echipa proiectului Proces educational optimizat in viziunea competentelor societatii cunoasterii, POSDRU/55/1.1/S/25952, SIVECO Romania, 2009-2012, specialist în domeniu didactic şi pedagogic, elaborarea de materiale (ghiduri metodologice) și suporturi de curs
- Membru în echipa proiectului Formarea profesorilor de matematica si stiinte in societatea cunoasterii, Proiect POSDRU 87/1.3/S/62534
- Membru în echipa proiectului Formarea continuă a profesorilor de Ştiinţe tehnologice în societatea cunoaşterii, Proiect POSDRU/87/1.3/S/62631
- Membru în echipa proiectului „PECAFROM – Promovarea egalității de șanse în cariera universitară și academică pentru femeile din România“ POSDRU/144/6.3/S/127928
- Membru in echipa proiectului Materiale nanostructurate cu capacitate de adsorbtie ridicate pentru indepartarea si recuperarea metalelor grele din apele reziduale” (HELPWATER), Capacitati - modul III, nr. 80/2008, Universitatea Tehnică "Gh. Asachi” Iasi
- Membru in echipa proiectului: Capacităţi 134/PC I/2007, proiect LaCaFia, Universitatea Tehnică "Gh. Asachi" Iaşi, 2007-2009, 71-020 / 18.09.2007 – NATOEPA-Programul 4 PNCDI II, , Universitatea Tehnică "Gh. Asachi" Iaşi, 2007-2010,

L. Premii, distincţii.

Medalie de bronz acordată în cadrul EuroInvent European Exhibition of Creativity and Innovation 19-21 Mai 2016 pentru cartea *Current topics, concepts and research priorities in environmental chemistry, vol. IV,* ed. Carmen Zaharia, Ed. Universității ”Al. I. Cuza” Iași, 2015, in care este capitolul: R. E. Tătaru Farmus, C. Cernătescu, C. Cobzaru, G.A. Apostolescu, N. Apostolescu - *Schiff bases and its potential use for wastewater treatment*, pp. 53-68

Medalie de bronz acordată în cadrul EuroInvent European Exhibition of Creativity and Innovation 15 Mai 2015 pentru lucrarea N.Apostolescu, G.A.Apostolescu, Materiale Anorganice Speciale. Pigmenți., Ed. ECOZONE, Iași, 2014.

Diplomă de excelenţă şi Medalia Inventica 2008 acordate la Salonul Internaţional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic, Inventica 2008, 14 - 24 mai 2008, Iaşi, România, pentru lucrarea: Carja G., Apostolescu N., Ciobanu G., Apostolescu G. - Extending the Competences of the Physicochemical Characterisation Laboratory by Gathering Advanced Experimental Techniques Used in the Study of LDH Nanostructured clays.

Iulie 2008 Coordonarea echipei de studenti de la Facultatea de Inginerie Chimica care a participat la la Competitia internationala UNESCO organizata la Sofia, in Bulgaria -SECOND REGIONAL

CONTEST FOR YOUNG TALENTS IN NATURAL SCIENCES – locul al 2-lea, proiect "Let's play within NanoRange"

Premiul Young Researcher la 4th International Workshop on "Nanosciences & Nanotechnologies" (NN07), Aristotle University of Thessaloniki 16-18 July 2007, Greece

M. Alte realizări semnificative.

Data, Semnătură,

Nume Prenume: VIZITIU MIHAELA-AURELIA
Gradul didactic: sef lucrari dr.chimist
Instituția unde este titular: Univ.Tehnica „Gh.Asachi" IASI
Facultatea: Inginerie Chimica si Protectia Mediului „Cristofor Simionescu"
Departamentul: Inginerie Chimica

L I S T A

lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat: Compuşi de coordinaţie cu activitate biologică, 2000

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. G.A.Apostolescu, D.Sibiedscu, **M.A.Vizitiu**: Aplicații experimentale de chimie anorganică; Editura Ecozone Iași (2026) ISBN: 978-606-8625-52-2.

2. Gabriela Carja, Gabriela Lisa, **Mihaela Vizitiu**; Chimie-Fizica prin lucrari de laborator si aplicatii; Ed.Performantica Iasi; (2017) ISBN: 978-606-685-551-8.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. *Removal of inorganic pollutants from waste water by adsorption*, Claudia Avasiloaiei, **Mihaela Vizitiu; Buletin IPI, Seria Chimie şi Inginerie Chimică; LXI(LXV), Fasc.1** p.23-38, (2015)

2. *Synthesis and Characterization of Aluminium Complex Dyes with Alizaringelb as Ligand*; D.Sibiescu, **M.Vizitiu**; **Buletin IPI, Seria Chimie şi Inginerie Chimică**; **LXI(LXV), 1**, p.51-57, (2015)

3. *Synthesis, Spectral Characterization, Thermal Studies and Structure of Bidentate Azo Dye Cr(III) Complexes,* . Sibiescu D., **Vizitiu M**, Crudu A.M., **Buletin IPI, Seria Chimie şi Inginerie Chimică,** LXI (LXV), *2*, (2015) p.49−56.

4. *Studies on the Photocatalytic Decomposition of Organic Dyes Using Mesoporous Metal Oxides,* N.Apostolescu, R.E.Tataru-Farmus, C.Cernatescu, C.Cobzaru, **M.A.Vizitiu**, G.A.Apostolescu, **Buletinul Institutului Politehnic din Iaşi, Tomul 63(67) Fasc. 1, 29-37 Chimie şi Inginerie Chimică;** (2017); ISSN 0254-7104

5. *Inorganic Transparent Pigments - Optical Properties* N.Apostolescu, , C.Cernatescu, C.Cobzaru, R.E.Tataru-Farmus **M.A.Vizitiu**, G.A.Apostolescu, **Buletinul Institutului Politehnic din Iaşi, Tomul 64(68) Fasc. 4, 47-60 Chimie şi Inginerie Chimică;** (2018); ISSN 0254-7104

6. *Recycling Electronic Waste. Study for the Recovery of Precious Metals* R.E.Tataru-Farmus**,** C.Cernatescu, G.A.Apostolescu, C.Cobzaru, N.Apostolescu, **M.A.Vizitiu**, Raluca-Elena Baciu, **Buletinul Institutului Politehnic din Iaşi, Tomul 65(69) Fasc. 4, 15-26; Chimie şi Inginerie Chimică;** (2019); ISSN 0254-7104

7. *Photocatalytic degradation of cationic tri-arylmethane dye - Methyl Violet 10B on ZnS catalysts under UV irradiation,* N.Apostolescu, I.Morosanu C.Cernatescu, C.Cobzaru, R.E.Tataru-Farmus**,** , **M.A.Vizitiu**, G.A.Apostolescu, **Buletinul Institutului Politehnic din Iaşi, Tomul 65(69) Fasc. 3, 17-25; Chimie şi Inginerie Chimică;** (2019); ISSN 0254-7104

8. *Natural dye extraction from* Pelargonium roseum *plants using ultrasound method* D.Sibiescu, **M.Vizitiu, Buletinul Institutului Politehnic din Iaşi, Tomul 66(70) Fasc. 4, 31-38; Chimie şi Inginerie Chimică;** (2020); ISSN 0254-7104

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. *New complexes of silver(I) with N-hydroxy-succinimide*, D.Sibiescu,C.Mata,**M.Vizitiu,** M.A.Crudu**; Proceedings of SPIE**;The International Society of Optical Engineering, DOI:10.1117/12.2243370, 2016

2. *Cochenille red dye decoloration and chromate reduction simultaneously in acidic medium*; D.Sibiescu, **M.Vizitiu**: **Proceedings SPIE** 10977, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies IX, 109770E; https:/doi.org/10.1117/12.2323631, 2018.

3. *Photocatalytic performance of fluorescent ZnS nanocolloids used for degradation of organic compounds* Apostolescu N., Cernătescu C., Cobzaru C., Tătaru Fărmuș R.E., **Vizitiu M.A.**, Drobotă M., Apostolescu G.A., International Conference "ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY" October 9-11, 2019, Chisinau, Republic of Moldova, http://www.chem.asm.md/icich60/files/Conference_Program_2019.pdf

4. *Tartrazine dye decoloration and chromate reduction simultaneously in acidic medium*; D.Sibiescu, **M.Vizitiu**, **Conference ICCE, Section 1 (Advanced Materials Manufacturing and Processes),** 2020.

E. Brevete obţinute în întreaga activitate

1. Brevet de inventie nr.126207 "Compus de coordinatie al Fe(III) si procedeu de obtinere"

Data: **Semnătura:**

Septembrie 2026

L I S T A D E L U C R Ă R I

PĂIUȘ (căs. HERGHILIGIU) I. CRISTINA MARIA

1º Teza de doctorat (T1)

- POLIMERI MULTIFUNCȚIONALI FOTOSENSIBILI PENTRU APLICAȚII BIOLOGICE, 2014, Universitatea Tehnică "Gheorghe Asachi" din Iaşi, conducător științific Prof. univ. dr. ing. NICOLAE HURDUC
Doctor în Chimie, diploma seria I, Nr. 0003769, O.M. 165/07.04/2014

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

D	**Sisteme de laborator funcţionale**
	Amenajare/ concepere lucrare nouă de laborator/ proiect/ simulare pe calculator/ studiu de caz
	D1. C.M. Herghiligiu, Noțiuni introductive. Sinteza biomateriale polimerice (disciplina Biomateriale, BPB I) **D2. C.M. Herghiligiu**, Caracterizarea biopolimerilor sintetizați (disciplina Biomateriale, BPB I) **D3. C.M. Herghiligiu,** Sinteza polimeri cu abilitate de raspuns la stimuli externi (disciplina Polimeri funcționali și materiale inteligente, BPB I) **D4. C.M. Herghiligiu,** Caracterizarea polimerilor funcționali (disciplina Polimeri funcționali și materiale inteligente, BPB I) **D5. C.M. Herghiligiu,** Exerciții și probleme de interpretare a spectrelor ^{1}H- RMN. Identificarea si confirmarea structurilor compusilor organici sau a compușilor ce conțin atomi de H prin spectrometrie ^{1}H- RMN. Simularea spectrelor în programe specifice (Metode de testare și caracterizare a materialelor, BPB I) **D6. C.M. Herghiligiu,** Exerciții și probleme de interpretare a spectrelor ^{13}C-RMN. Identificarea și confirmarea structurilor compușilor organici sau a compușilor ce conțin atomi de C prin spectrometrie ^{13}C-RMN. Simularea spectrelor în programe specifice (Metode de testare și caracterizare a materialelor, BPB I)
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**
	Suport de prezentare/ instruire text/ video/ audio/ ppt a disciplinei
	W1. **C.M. Herghiligiu** - *Chimie organică II* - suport lucrări de laborator, format ppt https://tuiasiro.sharepoint.com/:f:/s/Chimie2Chimieorganica-IM/IgCi4WZj-PgVQ5nOJLmVYqHvAaJNDWMPblwK6AW1fZySHrc?e=ZAbODM W2. **C.M. Herghiligiu** - *Chimie organică II* - exerciții teste curs, format ppt https://tuiasiro.sharepoint.com/:f:/s/Chimie2ChimieOrganica-testecursexercitiisirezolvari/IgBztRTKS7rpSqt_Z_CXm3LlAdy2CZApKn06ioC7GbQV5qE?e=xJztjX W3. **C.M. Herghiligiu** - *Chimie 2* (Chimie organică) - suport laborator, format ppt https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-suportlaborator/IQA1tDoEFj88T4YrjEbK6ljqAdzAo7YgyHlN9QAE2HuAuUk?e=vjpVpZ W4. **C.M. Herghiligiu** - *Chimie 2* (Chimie organică) - exerciții teste curs, format ppt https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-exerciiitestecurs/IQAlB_oXhXJuS695f-Y77qIRAVuHpNVoir4gEN5RIz-dJCU?e=cjhemP W5. **C.M. Herghiligiu** - *Chimie supramoleculară* – suport laborator, format ppt https://tuiasiro.sharepoint.com/:f:/s/Chimiesupramolecular-laboratoranulIIBPB/IgCr82Jq7j8sRpFp3nmOpeXKAbO_qk__muhVrFArONpKC14?e=kfG83G W6. **C.M. Herghiligiu** - *Strategia cercetării* – suport laborator, format ppt https://tuiasiro.sharepoint.com/:f:/s/SuportlaboratorSTRATEGIACERCETRII_masteranulI_BPB/IgB4hia08x6mT4jBfi-

	CN5XbAU8tABwnbQ2Jb7KbFHUv18k?e=5UmRY7

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

R	**Articol publicat în revistă cotată ISI, cu factor de impact**
	R1. I.V. Herghiligiu, I-B. Robu, A. Vilcu, M. Pislaru, Ș.-C. Pohonțu-Dragomir, M. Cojocaru, **C.M. Herghiligiu**, Organizational sustainability score – probability approach using fuzzy logic Environmental Engineering and Management Journal, February 2024, Vol.23, No. 2, 233-470 https://doi.org/10.30638/eemj.2024.019
	R2. I. Carlescu, A. Simion, A. Bele, P.M. Carlescu, **C.M. Herghiligiu**, D. Scutaru, *Dielectric properties of some bent core liquid crystals*, Environmental Engineering and Management Journal 17(4):951-958, 2018 https://doi.org/10.30638/eemj.2018.095
	R3. L. Rocha, **C.-M. Păiuș**, A. Luca-Raicu, E. Resmerita, A. Rusu, I.-A. Moleavin, M. Hamel, N. Nichita, N. Hurduc, *Azobenzene based polymers as photoactive supports and micellar structures for biological applications,* Journal of Photochemistry and Photobiology A Chemistry, 291:16-25, 2014, https://doi.org/10.1016/j.jphotochem.2014.06.018
	R4. N. Hurduc, B.C. Donose, A. Macovei, **C.-M. Păiuș,** C. Ibănescu, D. Scutaru, M. Hamel, N. Brânză-Nichita, L. Rocha, *Direct observation of athermal photofluidisation in azo-polymer films*, Soft Matter; 10(28):4640-4647, 2014, https://doi.org/10.1039/C4SM00397G, (Impact Factor: 3,798)
	R5. N. Hurduc, A. Macovei, **C.-M. Păiuș**, A, Raicu, I. Moleavin, N. Branza-Nichita, L. Rocha, *Azo-polysiloxanes as new supports for cell cultures*, Materials Science and Engineering C, 2013 https://doi.org/10.1016/j.msec.2013.01.012
	R6. I.V. Herghiligiu, L.M. Lupu, **C.M. Păiuș**, C. Robledo, A. Kobi**,** *Organizational Employee Seen as Environmental Knowledge Fractal Agents as a Consequence of the Certification With ISO 14001***,** The Proceedings of The 10th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning ICICKM-2013, 24-25 October 2013, editor Dr. Annie Green, vol 2: 524-531
	R7. C.-M Păiuș, A. Macovei, N. Branza-Nichita, L. Rocha, N. Hurduc, *Nanostructured azo-polysiloxanic films for biological applications*, Environmental Engineering and Management Journal, 11(11): 2029-2034, 2012, http://dx.doi.org/10.30638/eemj.2012.252
	R8. A. M. Mocanu, C. Moldoveanu, L. Odochian, **C.-M. Păiuș**, N. Apostolescu, R. Neculau, Study on the thermal behavior of casein under nitrogen and air atmosphere by means of the TG-FTIR technique, Termochimica Acta 546:120-126, 2012, https://doi.org/10.1016/j.tca.2012.07.031
	R9. G. Lisa, **C.-M Păiuş**, A Raicu-Luca, N. Hurduc, Azo-polysiloxanes thermal stability study:*Thermal stability azo-polysiloxanes with biological applications*, High Performance Polymers, 24(6): 530-537, 2012 https://doi.org/10.1177/0954008312444294
	R10. L. Odochian, C. Şoldea, **C.-M Păiuş**, A.-M. Mocanu, C., Moldoveanu, *Studiul cinetic al alchilării competitive a unui amestec de arene provenite din industria petrochimică*, Revista de Chimie, 61/Nr.3/ 2010, Bucureşti, 316–320, https://revistadechimie.ro/Articles.asp?ID=2561
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)
	R11. R.-A. Doca, I. Juratu, D. Litra, C.M. Herghiligiu, Polyglutamic acid: an innovative and multifunctional biopolymer, Buletinul Institutului Politehnic Din Iaşi, Secţia Chimie și Inginerie Chimică, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Volumul 72(76), Numărul 2 (2026), https://doi.org/10.5281/zenodo.21681671
	R12. C.M. Herghiligiu, *Photo-induced mass transport under continuous irradiation in nucleobase-modified azopolymers*, Bulletin of the Polytechnic Institute of Iași. Materials Science and Engineering Section, vol. 71 (75), nr.4 (2025) https://sim.tuiasi.ro/wp-content/uploads/2026/02/PHOTO-INDUCED-MASS-TRANSPORT-UNDER-CONTINUOUS.pdf

	R13. C.M. **Herghiligiu**, N. Hurduc, *Azo-polysiloxanes – surface properties studies*, Buletinul Institutului Politehnic Din Iaşi, Secţia Chimie și Inginerie Chimică, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Volumul 68(72), Numărul 2, 2022, https://doi.org/10.5281/zenodo.7542923
	R14. C.M. **Herghiligiu**, N. Hurduc, *Surface modification induced by aqeous environment of nucleobase-modified azo-polysiloxanic films*, Buletinul Institutului Politehnic Din Iaşi, Secţia Chimie și Inginerie Chimică, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Volumul 68(72), Numărul 3, 2022, https://doi.org/10.5281/zenodo.7544308
	R15. C.M. Herghiligiu, I. Cârlescu, D. Scutaru, N. Hurduc, *Azopolymers – photochromic behavior studies*, Buletinul Institutului Politehnic Iași, secția Chimie și Inginerie Chimică, Volumul 64 (68), nr. 1, pg. 19 - 31, 2018 http://www.bipcic.icpm.tuiasi.ro/pdf/2018/1/bipi_cic_2018_1_02.pdf
	R16. C. Moldoveanu, L. Odochian, **C.-M. Păiuș**, I. Lorela, A. Baiceanu, *Study on the thermal behaviour of casein in air*, Acta Chemica Iasi, 21, 31-46, 2013, https://doi.org/10.2478/achi-2013-0004
	R17. L. Odochian, A.M. Mocanu, L. Iancu, A. Baiceanu, **C.-M. Păiuș**, *Applications of thermogravimetric analysis on the study of composition of polyester-wool fabrics*, Buletinul Institutului Politehnic Iași, Tomul LVIII (LXII), Fasc. 1, 2012 http://biosacc.xhost.ro/pdf/publications/2012/BDI/3_2012_BDI_Ghinea.pdf
	Articol/studiu publicat în revistă de specialitate neindexată în baze de date
	V1. C.M. Herghiligiu, *A perspective pf creativity in polymer science*, The 21st International Conference of Inventics, 28-30 mai 2017, ISSN: 1844-7880, Ed. Performantica, Institutul National de Inventica Iași, 2017
	V2. C.-M. Păiuș, *Studiul capacităţii de nanostructurare a azo-polimerilor*, volum Workshop „Tendințe și cerințe de interdisciplinaritate în cercetare" POSDRU/107/1.5/S/79407, 2013
	V3. C. Şoldea, L. Odochian, A.-M. Mocanu, **C.-M Păiuş**, R. Neculau, *Influence of catalyst nature on the reaction of the key intermediate obtaining for synthesis of nitro musks*, Revista Societăţii Române a Chimiştilor Cosmetologi, ISSN 1582-7011, 9(1-2): 23 – 27, 2009
	V4. C. Şoldea, E. Merică, L. Odochian, M. Daniliuc, **C.-M. Păiuş**, A. Voiculescu, *Studiul cinetic al reacţiei de obţinere a intermediarului chee în prepararea moscurilor nitrice*, Revista Societăţii Române a Chimiştilor Cosmetologi, ISSN 1582-7011, 7: 41 – 49, 2007
E	**Lucrare comunicată/ prezentată la seminar/ conferință/ workshop/ expoziţie - 56 lucrări**

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

P	**Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională**
	P1. Contract de cercetare *Azopolimeri fotosensibili pentru aplicatii biologice* (BIO-AZO)", CAPACITĂŢI MODUL III C1-01/2010 (BIO-AZO), Proiect PN II - CAPACITĂŢI, Modul III, Parteneriat IFA-CEA Franta - Universitatea "Gheorghe Asachi" Iași (400.000 lei), director prof. univ. dr. ing. Nicolae Hurduc, **Cristina-Maria Păiuș** (membru echipă proiect 2010 – 2013)
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale
	P2. Contract cercetare fundamental, *Filme azo-polimerice nanostructurate utilizate drept suport în culturi celulare*, PN-III-P4-ID-PCE-2016-0508, (850.000), director prof. univ. dr. ing. Nicolae Hurduc, **Cristina-Maria Herghiligiu** (membru echipă proiect 2017 – 2019)
	...
F	**Alte lucrări de proiectare-cercetare-dezvoltare**
	F1. Proiect ROSE - „Experimentează și descoperă fascinația studenției" cu acronimul EDFS, SGU/PV/ AG 326/18.06.2020, director grant Conf. dr. ing. C. Cobzaru, 522776 lei – atribuții expert formare,
	F2. Proiect ROSE - "Reacționează Chimic cu Mediul de la TUIași", cu acronimul RCM TUIASI și AG nr. 129/SGU/PV/II - director grant Conf. dr. ing. I. Cârlescu, 943616 lei – atribuții expert formare

Data: **Ș.I. dr. chim. Herghiligiu Cristina-Maria**

Lista de lucrari in domeniul de studii universitare de licenta

Ecodesign si tehnologii sustenabile / Ecodesign and sustainable technologies

Numele si prenumele: Dragoi Elena-Niculina

A. Teza de doctorat.

Institutie: Universitatea Tehnica Gheorghe Asachi din Iasi, Facultatea Automatica si Calculatoare
Perioada: 2017-2025
Indrumator: habl. Prof. dr. ing. Florin Leon
Titlul tezei: Analiza unor tehnici de optimizare de inspirație biologică
Titlul: Doctor in Calculatoare si Tehnologia Informatiei

Institutie: Universitatea Tehnica Gheorghe Asachi din Iasi, Facultatea de Inginerie Chimica si Protectia Mediului Cristofor Simionescu
Perioada: 2009-2012
Indrumator: prof. dr. ing. Silvia Curteanu
Titlul tezei: Tehnici neuro-evolutive de modelare si optimizare a proceselor din ingineria chimica
Titlul: Doctor in Inginerie Chimica

B. Carti (manuale, monografii, tratate, indrumare etc.) publicate in strainatate.

1. Curteanu S, Dragoi EN, Blaga AC, Galaction AI, Cascaval D. Neuroevolutive Algorithms Applied for Modeling Some Biochemical Separation Processes. In Artificial Neural Networks, H. Cartwright, Editor. Springer US: New York, NY. p. 115-138, 23 p., ISBN: ISBN:19406029 10643745, 2021
2. Drăgoi EN, Suditu GD, Curteanu S. Optimization of Polyacrylamide Based Multicomponent Hydrogels Synthesis Using a Neuro-Evolutionary Strategy. In: EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization. H. C. Rodrigues, J. Herskovits, C. M. Mota Soares, A. L. Araújo, J. M. Guedes, J. O. Folgado, F. Moleiro, J. F. A. Madeira. Springer,p 379-405, 8 p., ISBN: ISBN: 978-981-10-6083-0, 2018
3. Dragoi EN., Curteanu S.. Applications of Differential Evolution in Polymerization Reaction Engineering. In: Differential evolution in chemical engineering for both single and multi-objective optimization, Shivon S., Rangaiah G.P. (Eds). World Scientific, p 377-415,, 39 p., ISBN: ISBN: 978-981-3207-51-6, 2018

4. Curteanu S., Dragoi EN. Neuro-evolutive techniques applied for modeling processes involving polymer gels, In: Polymer Gels: Synthesis and Characterization, Vijay Kumar Thakur and Manju Kumari Thakur (Eds). Springer, p 379-405, 27 p., ISBN: 978-981-10-6082-3, 2018

5. . Proceeding book of the 9th European Symposium on Religious Art, Restauration & Conservation. Rusu I, Nechita MT , Dragoi EN, Apostolescu N (eds.). Kermes books, ISBN: ISBN: 978-88-94206-44-9, 2017

6. Suditu GD, Lisa G, Nechita MT, Dragoi EN, Ardelean E. Kinetic analysis of thermal degradation of some old paper consolidated with celulose ethers in Proceeding book of the 9th European Symposium on Religious Art, Restauration & Conservation. Rusu I, Nechita MT , Dragoi EN, Apostolescu N (eds.). Kermes books, 3 p., ISBN: ISBN: 978-88-94206-44-9, 2017

7. Curteanu S, Dragoi EN, Dafinescu V. Evolutionary hybrid configuration applied to a polymerization process modelling. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Springer 9095, pp. 237-249, 13 p., ISBN: ISBN:978-3-319-19222-2; 978-3-319-19221-5, 2015

8. Drăgoi E.N., Curteanu S., Dafinescu V.. Modelling and optimization of chemical engineering processes. Bio-inpired techniques. LAP LAMBERT Academic Publishing, pp. 326,, 326 p., ISBN: ISBN: 978-3-659-40925-7, 2013

C. Carti (manuale, monografii, tratate, indrumare etc.) publicate in tara, la edituri recunoscute CNCSIS.

-

D. Carti (manuale, monografii, tratate, indrumare etc.) publicate pe plan local.

1. GD Suditu, EN Drăgoi, V Dafinescu, L Pintilie, MT Nechita. Wastewater treatment of effluents containing eriochrome black T using an UV reactor. Experimental, modelling and optimization. In: Ecological and environmental chemistry - 2022. Ediția 7, Vol.1, 3-4 martie 2022, Chișinău. Chisinau: Centrul Editorial-Poligrafic al USM. , 5 p., ISBN: ISBN 978-9975-159-06-7, 2022

E. Carti (manuale, monografii, tratate, indrumare etc.) publicate pe web.

1. L Pintilie, MT Nechita, GD Suditu, EN Drăgoi, V Dafinescu. Photo-decolorization of eriochrome black T: process optimization with Differential Evolution algorithm. In: The 24th Paris International Conference on Advances on Chemical, Agricultural, Biological & Environmental Sciences (CABES-22).. ISBN: ISBN: 978-989-9121-02-7, http://www.eares.org/siteadmin/upload/1818EAP0422103.pdf, 2022

F. Lucrari stiintifice publicate in reviste cotate ISI sau indexate in baze de date internationale.

- Articole publicate in reviste cotate ISI - selectie

1. Blaga AC, Dragoi EN, Cascaval D, Puitel AC, Galaction AI. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. Scientific Reports, 15, art no 42677, 2025

2. Wu T, Zare N, Li Y, Zhang DX, Dragoi EN, Aminabhavi TM, Karimi-Maleh H. 3D printed monolithic adsorbent for removal of Congo red and silver ions: Batch and fixed bed column studies. Chemical Engineering Journal, 519, art no 164865, p. 1-19, ISSN: 1385-8947, 2025, DOI: 10.1016/j.cej.2025.164865

3. Marcoie N, Toma IO, Chihaia S, Hraniciuc TA, Toma D, Balan CD, Dragoi EN, Nechita MT. Anthropogenic River Segmentation Case Study: Bahlui River from Romania. Hydrology, 12(9), art no 224, p. 1-23, 2025, DOI: 10.3390/hydrology12090224

4. Fasniuc-Pereu E,Drăgoi EN, Bulgariu D, Popescu MC, Bulgariu L. Removal of rifampicin and rifaximin antibiotics on PET fibers: Optimization, modeling and mechanism insight. Polymers, 17(15), 2089, p. 1-24, 2025, DOI: 10.3390/polym17152089

5. Lara-Montaño OD, Gómez-Castro FI, Gutiérrez-Antonio C, Dragoi EN. Success-Based Optimization Algorithm (SBOA): Development and enhancement of a metaheuristic optimizer. Computers and Chemical Engineering, 194, art no 108987, p. 1-15, ISSN: 0098-1354, 2025, DOI: 10.1016/j.compchemeng.2024.108987

6. Wu T, Li Y, Zhang ZX, Zhang DX, Dragoi EN, Karimi-Maleh H. 3D Print-Based Polypyrrole /TiVCTx/UiO-66 Composites for Effective Adsorption of Combined Pollutants in Water Media. Journal of Nanostructure in Chemistry, 15(1), art no 152503, p. 1-23, ISSN: 2008-9244, 2025, DOI: 10.57647/jnsc.2025.1501.03

8. Wu, T; Karimi-Maleh, H; Li Y; Zhang, Z; Zhang, D; Wen, Y; Fu, L; Zhong, N; Dragoi, EN; Aminabhavi, TM. 3D printed monolithic nanocomposites as adsorbents to remove Congo red and mercury (Ⅱ) from wastewater. Chemical Engineering Journal, 501(1), art no 157710, ISSN: 1385-8947, 2024, DOI: 10.1016/j.cej.2024.157710

9. Ahmadi, F; Samadi, MT; Godini, K; Moradi, S; Dragoi, EN; Suditu, GD. An Approachable Anaerobic Bioreactor for Remote Biogas Production: Experimental Analysis and Neuroevolution Modeling. International Journal of Energy Research, 2024, art no 4260678, ISSN: 0363-907X, 2024, DOI: 10.1155/er/4260678

10. Blaga, AC; Dragoi, EN; Tucaliuc, A; Kloetzer, L; Puitel, AC; Cascaval, D; Galaction, AI. Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids-Experimental, modelling and optimisation with Artificial Neural Networks. Heliyon, 10(16), art no e36113, 2024, DOI: 10.1016/j.heliyon.2024.e36113

11. Dragoi, EN; Blaga, AC; Cascaval, D; Galaction, AI. Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids. Journal of Molecular Liquids, 410(), art no 125564, ISSN: 0167-7322, 2024, DOI: 10.1016/j.molliq.2024.125564

12. Marcoie, N; Chihaia, S; Hraniciuc, TA; Balan, CD; Dragoi, EN; Nechita, MT. Linking Nutrient Dynamics with Urbanization Degree and Flood Control Reservoirs on the Bahlui River. Water, 16(10), art no 1322, 2024, DOI: 10.3390/w16101322

13. Al Janabi, MAY; Tiri, RNE; Cherif, A; Altuner, EE; Lee, CJ; Sen, F; Dragoi, EN; Karimi, F; Kalikeri, S. Hydrogen Generation by Methanolysis of NaBH4 via Efficient CuFe2O4 Nanoparticle Catalyst: A Kinetic Study and DNN Model. Topics in catalysis, 67(9-12), p 843-852, ISSN: 1022-5528, 2024, DOI: 10.1007/s11244-024-01904-0

14. Sithole T, Pahla G, Mashifana T, Mamvura T, Dragoi EN, Saravanan A, Sadeghifar H. A review of the combined torrefaction and densification technology as a source of renewable energy. Alexandria Engineering Journal, 82, p 330-341, ISSN: 1110-0168, 2023, DOI: 10.1016/j.aej.2023.09.080

15. Sithole T, Nseke J, Mashifana T, Falayi, T, Dragoi EN, Malenga E. Neural network optimization during the purification of industrial effluents using steel slag: kinetics and mechanism. Environmental Technology and Innovation, 30, art no 103118, ISSN: 2352-1864, 2023, DOI: 10.1016/j.eti.2023.103118

16. Hlihor RM, Rosca M, Dragoi EN, Simion IM, Favier L, Gavrilescu M. New insights into the application of fungal biomass for chromium(VI) bioremoval from aqueous solutions using Design of Experiments and Differential Evolution based neural network approaches. Chemical Engineering Research and Design, 190, 233-254, ISSN: 0263-8762, 2023, DOI: doi.org/10.1016/j.cherd.2022.12.024

17. Vasseghian Y, Le VT, Joo SW, Dragoi EN, Kamyab H, Chelliapang S, Klemešh JJ. Spotlighting graphene-based catalysts for the mitigation of environmentally hazardous pollutants to cleaner production: A review. Journal of Cleaner Production, 132702, ISSN: 0959-6526, 2022, DOI: 10.1016/j.jclepro.2022.132702

18. Mehrizi AA, Jafarzadeh H, Lashkenari MS,Naddafi M, Le VT, Tran VA, Dragoi EN, Vasseghian Y. Artificial neural networks modeling ethanol oxidation reaction kinetics catalyzed by polyaniline-manganese ferrite supported platinum-ruthenium nanohybrid electrocatalyst. Chemical Engineering Research and Design, 184, 72-78, ISSN: 0263-8762, 2022, DOI: 10.1016/j.cherd.2022.05.046

19. Suditu GD, Dragoi EN. Apostica AG, Manaila AM, Radu VM, Puitel AC, Nechita MT. Artificial Intelligence-Based Tools for Process Optimization: Case Study-Bromocresol Green Decolorization with Active Carbon. Adsorption Science & Technology, 2022, article no. 8110436, ISSN: 0263-6174, 2022, DOI: 10.1155/2022/8110436

20. Fertu DI,Dragoi EN, Bulgariu L, Curteanu S, Gavrilescu M. Modeling the Biosorption Process of Heavy Metal Ions on Soybean-Based Low-Cost Biosorbents Using Artificial Neural Networks. Processes, 10(3):603, ISSN: 2227-9717, 2022, DOI: doi.org/10.3390/pr10030603

- Articole publicate in volume indexate ISI Proceedings

(Lucrarile ISI Proceedings sunt listate la sectiunea I - Lucrari la conferinte.)

- Articole indexate in baze de date internationale (BDI)

1. Alsaadi Areej; Alhalabi Wadee; Dragoi Elena-Niculina. Performance analysis Differential search algorithm based on randomization and benchmark functions. Data Technologies and applications, 55(3): 313:331, ISSN: 2514-9288, 2021, DOI: 10.1108/DTA-05-2018-0043

2. Dragoi EN, Curteanu S, Leon F, Azarian G, Godini K, Eva L, Dafinescu V, Turliuc MD. Optimization of Chlorophyll A removal from wastewaters using bio-inspired algorithms. Environmental Engineering and Management Journal, 19(2): 311-323, ISSN: 1582-9596, 2020

3. Mirzaei-Alavijeh M, Jalilian F, Dragoi EN, Pirouzeh R, Solaimanizadeh L, Khashij S. Self-care behaviors related to air pollution protection questionnaire: a psychometric analysis. Archives of Public Health, (2020) 78:19, ISSN: 0778-7367, 2020, DOI: 10.1186/s13690-020-00400-7

4. Kalantary R.R, Moradi M., Pirsaheb M., Esrafili A, Jafari A.J., Gholami M., Vasseghian Y., Antolini E., Dragoi E.N. Enhanced photocatalytic inactivation of E.coli by natural pyrite in presence of citrate and EDTA as effective chelating agents: Experimental evaluation and kinetic and ANN models. Journal of Environmnetal Chemical Engineering, 7 (2019) 102906, 2019

G. Lucrari stiintifice publicate in reviste din strainatate.

H. Lucrari stiintifice publicate in reviste din tara, recunoscute CNCSIS.

1. Loredana Pintilie∗, Andreea-Ema Sava, Elena Niculina Drăgoi and Carmen Teodosiu. Application of response surface method for optimization of eriochrome black t removal by adsorption. BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, 62 (78), 37-51, 2022

I. Lucrari stiintifice publicate in volumele conferintelor.

1. G.D. Suditu, M.T. Nechita, A.C. Puițel, E.N. Drăgoi. Installation for Wastewater Treatment by Photo-Sono-Chemical Methods. 15th European Exhibition of Creativity and Innovation EUROINVENT, Iasi, Romania, 11-13 May 2023, 2023 [Poster]

2. E.N. Dragoi, G.D. Suditu, M.T. Nechita. Modeling and optimization of the Rifaximin decolorization process using bacterial foraging optimization and grey worm

optimization. 12th International Conference On Environmental Engineering And Management (ICEEM 12), September 13 – 16, 2023, Iași, Romania, 2023 [Poster]

3. E.N. Drăgoi, G.D. Suditu, A.C. Puițel, C.D. Balan, M. Danu, M.T. Nechita. Optimization of water decolorization processes. The 6th International Hybrid Conference “Water resources and wetlands” (WRW2023), September 13-17, 2023, Tulcea, Romania, 2023 [poster]

4. M. Danu, C.D. Balan, A.C. Puițel, E.N. Drăgoi, G.D. Suditu, M.T. Nechita. Characterization of microplastic in water samples from natural receptors using thermal analysis (TGA-DSC). The 6th International Hybrid Conference “Water resources and wetlands” (WRW2023), September 13-17, 2023, Tulcea, Romania, 2023 [poster]

5. G.D. Suditu, A.E. Sava, E.N. Drăgoi, M.T. Nechita. Searching for the synergistic effect in AOPs. Case study: sonophotocatalytic degradation of methylene blue by anatase nanopowder. 5th Edition of International Conference on Materials Science and Engineering, (MAT 2023) “Exceeding Vision in Materials Science and Engineering through Novel Innovations”, September 25-27, 2023, Valencia, Spain, 2023 [oral + poster]

6. E.N. Drăgoi, M.T. Nechita, A.C. Puițel, G.D. Suditu. Foto-decolorization of antibiotics contaminated wastewater. The 22th International Scientific Conference „TEHNOMUS”, November 10th-11th, 2023 „Ştefan cel Mare” University of Suceava – Romania, 2023 [oral]

7. Adrian Cătălin Puitel, Cătălin Dumitrel Balan, Mircea Teodor Nechita, Gabriel Dan Suditu, Gabriela-Liliana Ailiesei. Asesssing the valorization potential of corn stalk in the circular economy context. The 22th International Scientific Conference „TEHNOMUS”, November 10th-11th, 2023 „Ştefan cel Mare” University of Suceava – Romania, 2023 [oral]

8. AE Sava, EN Drăgoi, GD Suditu, MT Nechita. Synergetic effect of ultraviolet light and ultrasound. Case study: photochemical degradation of methylene blue. SICHEM 2022: Symposium Of Chemical Engineering And Materials , Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania 17-18 November, 2022, 2022 [Poster]

9. L Pintilie, E Sava, EN Drăgoi, C Teodosiu. Application of Response Surface Method for Optimization of Eriochrome Black T Removal by Adsorption. "Gheorghe Asachi" Technical University of Iasi, Romania
5th International Conference of the Doctoral School, May 18 - 20, 2022, Iaşi, România, 2022 [Poster]

10. L Pintilie, MT Nechita, GD Suditu, EN Drăgoi, V Dafinescu. Photo-decolorization of eriochrome black T: process optimization with Differential Evolution algorithm. The 24th Paris International Conference on "Advances on Chemical, Agricultural, Biological & Environmental Sciences" (CABES-22), April 19-21, 2022, Paris, France, 2022 [Poster]

11. L Pintilie, EN Drăgoi, GD Suditu, MT Nechita, V Dafinescu. Eriochrome black T decolorization with active carbon and hv/TiO2: modeling and process optimization. The

7th International Conference on "Environmental Pollution, Treatment and Protection" (ICEPTP'22), April 10-12, 2022, Lisbon, Portugal, 2022 [Poster]

12. L Pintilie, EN Drăgoi, GD Suditu, MT Nechita, V Dafinescu. Photochemical decolorization: investigations regarding economic viability of cosmetic grade TiO2. The 12th International Conference on "Materials Science & Engineering" (BRAMAT 2022), March 9-12, 2022, Brasov, Romania, 2022 [Poster]

13. GD Suditu, EN Drăgoi, V Dafinescu, L Pintilie, MT Nechita. Wastewater treatment of effluents containing eriochrome black T using an UV reactor. Experimental, modelling and optimization. The 7th International Conference "Ecological and Environmental Chemistry-2022" (EEC-2022), March 3-4, 2022, Chișinau, Republic of Moldova, 2022 [Poster]

14. EN Dragoi, AC Blaga*, L Kloetzer, A Tucaliuc, D Cascaval. MODELLING AND OPTIMIZATION OF FOLIC ACID SEPARATION USING IONIC LIQUIDS. The 16th International Conference CONSTRUCTIVE AND TECHNOLOGICAL DESIGN OPTIMIZATION IN THE MACHINES BUILDING FIELD. OPROTEH-2021, 2021

15. Drăgoi EN, Suditu GD, Puițel AC, Dafinescu V, Pintilie L, Nechita MT. Unravelling the fluid flow through an angular photochemical reactor: tracer investigations. 10th International Conference of Environmental Engineering and Management, 8-10 September 2021, Muttenz, Switzerland, 2021 [Poster]

16. Hlihor RM, Roșca M, Drăgoi EN, Diaconu M, Curteanu S, Favier L, Gavrilescu M. Recent development on the modelling and optimization of Cr(VI) removal by fungal biomass. 11th International Conference of Environmental Engineering and Management, 8-10 September 2021, Muttenz, Switzerland, 2021 [Poster]

17. Cretescu I, Calin S, Kovacs Z, Dragoi EN, Padure D, Lazar L, Soreanu G. Actual aspects concerning the water quality monitoring on the Sulina Chanel from the Danube Delta - Romania. Ecology & Safety 30th International Conference 16-19 August 2021 Burgas, Bulgaria, ISBN/ISSN: Journal of International Scientific Publications Ecology & Safety ISSN 1314-7234, Volume 15, 2021, 2021 [Prezentare]

18. I. Cretescu, , Z. Kovacs, E.N. Dragoi, G. Soreanu. Improvement the water management on the Sulina Chanel by implementation of an automated water quality monitoring system on the passenger ship. 5th International Conference on Chemical Engineering Romania, Iași, October 28 – 30, 2020, 2020

19. Epure EL, Ciobotărescu S, Drăgoi EN. GLASS TRANSITION TEMPERATURE (Tg) BY MOLECULAR DYNAMICS SIMULATIONS. POLYMER CONNECT Polymer Science and Composite Materials Conference February 26-28, 2020 | SANA Malhoa Hotel, Lisbon, Portugal, 2020 [Poster]

20. Hlihor RM, Drăgoi EN, Diaconu M, Favier L, Curteanu S, Gavrilescu M. Behind the Mechanism of Chromium(VI) Removal and Reduction from Aqueous Solutions by Fungal Biomass using a Bio-Inspired Process. Modelling and Optimization. 2nd Euro-Mediterranean Conference for Environmental Integration (EMCEI 2019), 10-13 October

2019, Sousse, Tunisia. In: Ksibi M. et al. (eds) Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition). EMCEI 2019. Environmental Science and Engineering, Springer, ISBN/ISSN: ISBN 978-3-030-51209-5, 2019 [Prezentare]

21. Dragoi EN, Nechita MT, Suditu GD. Bromocresol green adsorption optimization using bio-inspired metaheuristic optimizers. In: Achievements and perspectives of modern chemistry. 9-11 octombrie 2019, Chişinău. Chisinau, Republic of Moldova: Tipografia Academiei de Ştiinţe a Moldovei, 2019, p. 154. ISBN 978-9975-62-428-2., ISBN/ISSN: ISBN 978-9975-62-428-2, 2019

22. Suditu GD , Puitel AC, Dragoi EN, Nechita MT, Loredana P. RESIDENCE TIME DISTRIBUTION DIAGNOSIS ON FOUR LAMPS PHOTOCHEMICAL REACTOR. "International Conference "Achievements and perspectives of modern chemistry"" Chişinău, Moldova, 9-11 octombrie 2019, ISBN/ISSN: ISBN 978-9975-62-428-2, 2019

23. Suditu GD, Puitel AC, Drăgoi EN, Nechita MT. Hybrid wastewater treatment system combining photo, sono and chemical methods. 10th International Conference on Environmental Engineering and Management (ICEEM 2019), Iasi, Romania,18 -21 september, 2019, ISBN/ISSN: 2457-7049, 2019 [Poster]

24. Nechita MT, Drăgoi EN, Suditu GD, Puitel AC. Analysis of the Residence Time Distribution of a Fotochemical Reactor. 21st Romanian International Conference on Chemistry and Chemical Engineering Constanta- Mamaia, ROMANIA - September 4 – 7, 2019, 2019 [Poster]

25. Drăgoi EN, Suditu GD, Nechita MT, Dafinescu V. Optimization of bromocresol green adsorption from aqueous solutions using Bacterial Foraging Optimization algorithm. 21st Romanian International Conference on Chemistry and Chemical Engineering Constanta- Mamaia, ROMANIA - September 4 – 7, 2019, 2019 [Poster]

26. Drăgoi EN, Eva L, Dafinescu V, Apetrei AC, Turliuc DM. Modelling with nature inspired optimizers and artificial neural networks. Case study: phenol adsorption. An Annual International Conference on Computer & Software Engineering 22-25 July 2019, Athens, Greece, 2019 [Prezentare]

27. Drăgoi EN, Leon F. Optimization metaheuristics inspired from viruses and simple cell organisms. The 2nd International Conference on Advances in Artificial Intelligence (ICAAI 2018), Barcelona, Spain, October 6-8, 2018. In: In: Rodrigues H. et al. (eds) EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization. EngOpt 2018. Springer, Cham. https://doi.org/10.1007/978-3-319-97773-7_16, ISBN/ISSN: ISBN: 978-3-319-97772-0, 2018 [Prezentare]

28. Drăgoi EN. Bio-inspired optimizers for solving chemical engineering problems. The 9th International Fair of Inventions and Practical Ideas INVENT-INVEST 2018, Chisinau, Republic of Moldova, 9-11 November 2018, 2018 [Poster]

29. Drăgoi EN, Curteanu S. Modeling of a wastewater-treatment electrolytic process using a neuro-evolutive technique. 4th International Conference on Chemical

Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, Iasi, Romania, 31 october-2 november, 2018, 2018 [Poster]

30. Drăgoi EN, Curteanu S. Optimization of chlorophyll a removal from wastewaters using bio-inspired algorithms. 4th International Conference on Chemical Engineering (ICCE 2018) - Innovative materials and processes for a sustainable development, Iasi, Romania, 31 october-2 november, 2018, 2018 [Poster]

31. Drăgoi EN, Suditu GD, Curteanu S. Optimization of Polyacrylamide Based Multicomponent Hydrogels Synthesis Using a Neuro-Evolutionary Strategy. 6th International Conference on Engineering Optimization, Lisbon, Portugal, 17-19 September 2018, ISBN/ISSN: 978-3-319-97772-0, 2018 [Prezentare]

32. Drăgoi EN, Curteanu S. Clonal selection based optimization for engineering systems. The 8th International Fair of Inventions and Practical Ideas INVENT-INVEST 2017, Ungheni 12-15 November 2017, 2017 [Poster]

33. Dragoi EN, Kovacs Z, T Juzsakova, Cretescu I. Environmental assessment of surface waters based on monitoring data and neuro-evolutive modelling. 9th International Conference on Environmental Engineering and Management. Circular Economy and Environmental Sustainability, 6-9 September 2017, Bologna, Italy, 2017 [Poster]

34. Drăgoi EN, Curteanu S. Bio-Inspired Based Modelling And Optimization Framework For Chemical Engineering Systems. The 7th International Fair of Inventions and Practical Ideas INVENT-INVEST 2016, Iasi, 15-17 September 2016, 2016 [Poster]

35. KOVÁCS Z, CRETESCU I, BREABAN IG, Drăgoi EN, Curteanu S. The evaluation method of water quality status of surface water based on Water Quality Index and Artificial Neural Networks. Certainty and uncertainty in research and use of groundwater resources, Iasi, 15-17 September 2016, 2016 [Poster]

36. Dragoi EN, Curteanu S, Cascaval D, Galaction A. Artificial Neural Network Modeling of Mixing Efficiency in a Split-Cylinder Gas-Lift Bioreactor for Yarrowia lipolytica Suspensions. 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), 2015 [Prezentare]

37. Bulgariu L, Hlihor RM, Comanita DE, Fertu DI, Nacu G, Drăgoi EN, Curteanu S, Maria Gavrilescu*. Modelling and optimization of the removal of some relevant heavy metals ions from aqueous effluents by waste biomass. 6th European Bioremediation Conference, Chania, Crete, Greece, June 29 – July 2, 2015, 2015 [Poster]

38. Curteanu S, Dragoi EN, Dafinescu V. Evolutionary hybrid configuration applied to a polymerization process modelling. International Work Conference on Artificial Neural Networks. 10-12 June 2015. Palma de Mallorca. Spain. Published in: Advances in Computational Intelligence. Springer International Publishing, 2015. p. 237-249., ISBN/ISSN: ISBN: 978-3-319-19221-5, 2015 [Poster]

39. Curteanu S, Dragoi EN, Leon F, Butnariu C. Artificial intelligence modelling methodologies applied to a polymerization process. Simulation and Modeling

Methodologies, Technologies and Applications (SIMULTECH), International Conference on Simulation and Modeling Methodologies, Technologies and Applications, 2014/08/28/ 2014 Vienna. 43-49. IEEE, DOI: 10.5220/0005029800430049, ISBN/ISSN: ISSN:978-989-758-060-4, 2014 [Prezentare]

40. Dragan S, Dragoi EN, Constantinescu D, Tudosa I, Dafinescu V. Operating theatre electromagnetic pollution generated by radio/electrosurgery. Medical devices electromagnetic interference. EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering , December 2014, Article number 6969959, Pages 504-507, 8th International Conference and Exposition on Electrical and Power Engineering, EPE 2014; Iasi; Romania; 16 October 2014 through 18 October 2014; Category numberCFP1447S-ART; Code 109547, ISBN/ISSN: ISBN:978-1-4799-5849-8, 2014 [Poster]

41. Cozma P, Dragoi EN, Mamaliga I, Curteanu S, Wukovits W, Friedl A, Gavrilescu M. Modelling and Optimization of CO2 Absorption in Pneumatic Contactors Using Artificial Neural Networks Developed with Clonal Selection-Based Algorithm. 7th International Conference on Environmental Engineering and Management Integration Challenges for Sustainability 18 – 21 September 2013, Vienna, Austria, 2013 [Prezentare]

42. Dragoi EN, Curteanu S, Dafinescu V. Differential Evolution Applications in Electromagnetics. International Conference and Exposition on Electrical and Power Engineering (EPE) Iasi, ROMANIA Date: OCT 25-27, 2012, ISBN/ISSN: ISBN:978-1-4673-1172-4; 978-1-4673-1173-1, 2012 [Poster]

43. Curteanu S., Leon F. Furtuna R., Dragoi EN, Curteanu N. Comparison between Different Methods for Developing Neural Network Topology Applied to a Complex Polymerization Process. World Congress on Computational Intelligence (WCCI 2010) Location: Barcelona, SPAIN, ISBN/ISSN: ISBN:978-1-4244-6917-8, 2010 [Poster]

44. Drăgoi, E.-N., Curteanu, S., and Mihailescu, C.,. Modeling methodology based on Differential Evolution algorithm applied to a series of hydrogels. Advances in intelligent Systems and Technologies, 07 – 09 octombrie, Iasi, Romania, 2010 [Prezentare]

J. Inventii.

1. E.N. Drăgoi, M.T. Nechita, G.D. Suditu, A.C. Puițel. Metodologie de optimizare a procesului de decolorare a leșiei negre folosind algoritmi de inspirație biologica. ORDA, RGII/INT/4749/20.11.2023-RGII/IES/4749/13.12.2023, 2023

2. Creţescu Igor; Drăgoi Elena-Niculina; Şoreanu Gabriela. Surface water quality monitoring system placed on a passenger ship/sistem de monitorizare a calităţii apei de suprafaţă amplasat pe o navă de pasageri. OSIM, RO20210000019 20210122, 2021

3. Arghirescu M, Aghion C, Hamagn MG, Antonescu I, Dragoi EN, Cretescu I. Magnetoelectric generator with built-in motor for low-wind turbines. OSIM, no A202000646/15.10.2020, 2020

4. Suditu GD, nechita MT, Puitel AC, Dragoi EN. Plant for purifying waste water by photo- and sono-chemical methods. OSIM, no A/00922/20.12.2019, 2019

5. Seghedin Neculai-Eugen; Chitariu Dragoş Florin; Bocăneţ Ana Maria; Munteanu Adriana; Luca Alexandra; Cracan Arcadie; Andruşcă Liviu; Suditu Gabriel Dan; Drăgoi Elena-Niculina; Vatavu Cristina; Avram Elena; Seghedin Neculai-Eugen; Chitariu Dragoş Florin; Bocăneţ Ana Maria; Munteanu Adriana; Luca Alexandra; Cracan Arcadie; Andruşcă Liviu; Suditu Gabriel Dan; Drăgoi Elena-Niculina; Vatavu Cristina; Avram Elena. SOCKET WITH MECHANIZED DISENGAGEMENT OF PLUG. OSIM, RO134728A2, 2019

6. Dragoi EN, Curteanu S. Chemical engineering process modelling and optimization using a hybrid Differential Evolution approach. ORDA, no 735/29.02.2016, 2016

7. Dragoi EN, Curteanu S. System identification methodology based on Differential Evolution and Back-Propagation (SADE-NN-2). ORDA, no. 11211/04.12.2012, 2012

8. Dragoi EN, Curteanu S. Optimization methodology based on an improved self-adaptive version of Differential Evolution algorithm, SADE-NN-1. ORDA, no. 1261/21.09.2011, 2011

9. Dragoi EN, Curteanu S. Differential Evolution algorithm designed for neural network topology determination. ORDA, no. 14645/22.11.2010, 2010

K. Contracte de cercetare.

Director de grant/contract

1. Testing framework for bio-inspired algorithms/Framework pentru testarea algoritmilor de inspiratie biologica. PN-III-P1-1.1-PD-2016-1399, no 23/2018, 2018-2020, valoare: 249985 RON [National]

2. Artificial intelligence based modelling and optimization of a hybrid system developed though symbiosis of multiple wastewater treatment methods. PN-III-P4-ID-PCE-2020-1052, no 58/2021, 2021-2023 [National]

Membru in colectiv

1. Software based on artificial intelligence algorithms with applications in modelling and optimization of chemical systems. PN-II-PT-PCCA-2011-32-0732, No. 23/2012, 2012-2015, director: Silvia Curteanu [National]

2. Blending Academic and Entrepreneurial Knowledge in Technology enhanced learning – BAEKTEL. 544482-TEMPUS-1-2013-1-IT-TEMPUS-JPHES,2013-2017, director: Silvia Curteanu [International]

3. Bio-inspired algorithms for modelling and optimization of complex chemical engineering processes. PN-III-P4-ID-PCE-2016-0322, 51/2017, 2017-2019, director: Silvia Curteanu [National]

4. Reactioneaza Chimic cu Mediul de la TUIASI. RCM TUIASI [National]

5. Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources. COFUND-WW2017-WATER HARMONY , 2019-2021, director: Igor Cretescu [National]

6. Predicting polymer transition temperature though combined computational techniques/ Predicția temperaturilor de tranzitie ale polimerilor prin tehnici computationale combinate. GNaC2018_91,2019-2020, director: Luiza Iepure [National]

7. Design, construction and testing of a hybrid prototype equipment for cynide distruction conducted with expert system/ Proiectarea, construcția și testarea unui prototip hibrid de echipament pentru degradarea cianurilor condus cu sistem expert. GNaC2018_20, 2019-2020, director: Gabriel Dan Suditu [National]

8. Biotrickling filtration upgrade in the context of atmospheric protection and climate change /Upgradarea filtrarii prin biotrickling in contextul protectiei atmosferei si a schimbarilor climatice. PN-III-P2-2.1-PED2019-1165,2020-2022, director: Gabriela Soreanu [National]

9. From human to virus. optimization algorithms with chemical engineering applications. PN-III-P4-ID-PCE2020-1520, 2021-2023, director: Silvia Curteanu [National]

10. Biofiltration of air from urban automotive underground spaces. PN-III-P4-ID-PCE-2020-0551, 2021 - 2023, director: Gabriela Soreanu [National]

L. Premii, distinctii.

1. 2018. Excellence diploma: Elena-Niculina Dragoi. Bio-inspired optimizers for solving chemical engineering problems. The 9th International Fair of Inventions and Practical Ideas INVENT-INVEST 2018, Chisinau, 9-11 November 2018

2. 2018. Special award from the Romanian Association for Unconventional Technologies, Bucharest Branch: Elena-Niculina Dragoi. Bio-inspired optimizers for solving chemical engineering problems. The 9th International Fair of Inventions and Practical Ideas INVENT-INVEST 2018, Chisinau, 9-11 November 2018

3. 2018. Fair medal with excellence diploma: Elena-Niculina Dragoi. Bio-inspired optimizers for solving chemical engineering problems. The 9th International Fair of Inventions and Practical Ideas INVENT-INVEST 2018, Chisinau, 9-11 November 2018

4. 2017. Gold medal: Elena-Niculina Dragoi, Silvia Curteanu. Clonal selection based optimization for engineering systems. The 8th International Fair of Inventions and Practical Ideas INVENT-INVEST 2017, Ungheni, 12-15 November 2017

5. 2017. Woman inventor: Elena-Niculina Dragoi, Silvia Curteanu. Clonal selection based optimization for engineering systems. The 8th International Fair of Inventions and Practical Ideas INVENT-INVEST 2017, Ungheni, 12-15 November 2017

6. 2017. Daniel Mareci Young Researcher Awards: Dragoi EN. Kinetic analysis of thermal degradation of some old paper consolidated with cellulose ethers. 9th European Symposium on religious Art, restoration & Conservation, 18-20 May 2017, Iasi, Romania

7. 2016. Silver medal: Elena-Niculina Drăgoi, Silvia Curteanu. Differential Evolution algorithm developed for determining neural network topology. EUROINVENT. European exhibition of creativity and innovation, Iasi, 21 May 2016

8. 2016. Young inventor from Society of Romanian Inventors (SIR): Elena-Niculina Drăgoi, Silvia Curteanu. Bio-Inspired Based Modelling And Optimization Framework For Chemical Engineering Systems. The 7th International Fair of Inventions and Practical Ideas INVENT-INVEST 2016, Iasi, 15-17 September 2016

M. Alte realizari semnificative.

Evaluator programe: EU H2020; programe nationale din Letonia, Malta, Italia, Danemarca; Comitet promovare Universitatea King Abdulaziz (Arabia Saudita)

Organizatii profesionale: International Computer Science and Engineering Society, Romanian Association for Artificial Intelligence, Universal Association of Computer and Electronics Engineers

Data,

Semnatura,

Lista de lucrări în domeniul de studii universitare de licență
Ingineria și Protecția Mediului în Industrie

Numele şi prenumele: **SUDITU GABRIEL-DAN**

A. Teza de doctorat.

Titlul tezei: "*Metode de învăţare automată destinate clasificării de parametri din procese ale industriei chimice* **"** 2013., Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Inginerie Chimică și Protecția Mediului, 27.09.2013.

Coordonator ştiinţific: prof.dr.ing. Silvia Curteanu

Titlul: DOCTOR INGINER, diploma seria **I** nr. **0003669**, Ordinul ministrului educației naționale nr. **5581 / 3.12.2013. doctor în Inginerie chimică**

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Informatică aplicată 1 – curs și aplicații - MATHCAD: https://edu.tuiasi.ro/course/view.php?id=4750#coursecontentcollapse1;
2. Informatică aplicată 1 – curs și aplicații - OFFICE 2019: https://edu.tuiasi.ro/course/view.php?id=4748#coursecontentcollapse1;
3. Informatică aplicată II – curs și aplicații - MATLAB: https://edu.tuiasi.ro/course/view.php?id=4749#coursecontentcollapse2
4. Automatizarea proceselor tehnologice – curs și aplicații: https://edu.tuiasi.ro/course/view.php?id=4876#coursecontentcollapse1

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Technological and Economic Optimization of Wheat Straw Black Liquor Decolorization by Activated Carbon, GD Suditu, EN Drăgoi, AC Puițel, MT Nechita, Water 15 (16), 2911, 2023
2. Wastewater treatment of effluents containing Eriochrome Black T using an uv reactor. Experimental, modelling and optimization, GD Suditu, EN Dragoi, V Dafinescu, L Pintilie, MT Nechita, Ecological and environmental chemistry, 128-129, 2022
3. Statistical analysis and optimization of the brilliant red HE-3B dye biosorption onto a biosorbent based on residual biomass, GD Suditu, AC Blaga, RE Tataru-Farmus, C Zaharia, D Suteu, Materials 15 (20), 7180, 2022
4. Photo-decolorization of Eriochrome Black T: process optimization with Differential Evolution algorithm, L Pintilie, MT Nechita, GD Suditu, V Dafinescu, EN Drăgoi, PASEW-22, MESSH-22 & CABES-22 April 19–21, 2022 Paris (France), 2022
5. An experimental study on the hot alkali extraction of xylan-based hemicelluloses from wheat straw and corn stalks and optimization methods, AC Puițel, GD Suditu, M Danu, GL Ailiesei, MT Nechita, Polymers 14 (9), 1662, 2022

6. Artificial Intelligence-Based Tools for Process Optimization: Case Study—Bromocresol Green Decolorization with Active Carbon, GD Suditu, EN Drăgoi, AG Apostică, AM Mănăilă, VM Radu, AC Puițel, MT Nechita, Adsorption Science & Technology, Hindawi, 2022
7. Treatment of Corn Stalk Pulping Effluent by Electro-Coagulation, GD Suditu, AC Puițel, AM Chește, D Gavrilescu, Environmental Engineering & Management Journal (EEMJ) 20 (3), 2021
8. Differential evolution-based optimization of corn stalks black liquor decolorization using active carbon and TiO2/UV, MT Nechita, GD Suditu, AC Puițel, EN Drăgoi, Scientific Reports 11 (1), 18481, 2021
9. Bromocresol green adsorption optimization using bio-inspired metaheuristic optimizers, EN Dragoi, MT Nechita, GD Suditu, Achievements and perspectives of modern chemistry, 154-154, 2019
10. Experimental Study on TiO2 Promoted Photo-Degradation of Methylene Blue, Al Atomi, GD Suditu, AC Puiţel, MT Nechita, Bulletin of Romanian Chemical Engineering Society 5 (1), 68-74, 2018
11. Prediction of corrosion resistance of some dental metallic materials applying artificial neural networks, D Mareci, GD Suditu, R Chelariu, LC Trincă, S Curteanu, Materials and Corrosion 67 (11), 1213-1219, 2016
12. Prediction of corrosion resistance of some dental metallic materials with an adaptive regression model, R Chelariu, GD Suditu, D Mareci, G Bolat, N Cimpoesu, F Leon, S Curteanu, Jom 67, 767-774, 2015
13. Neural networks and differential evolution algorithm applied for modelling the depollution process of some gaseous streams, S Curteanu, GD Suditu, AM Buburuzan, EN Dragoi, Environmental Science and Pollution Research 21, 12856-12867, 2014
14. Application of a Neuro-Genetic Technique in the Optimization of Heavy Metals Removal from Wastewaters For Environmental Risk Reduction, GD Suditu, CG Piuleac, L Bulgariu, S Curteanu, Environmental Engineering & Management Journal (EEMJ) 12 (1), 2013
15. Neural networks-based modeling applied to a process of heavy metals removal from wastewaters, GD Suditu, S Curteanu, L Bulgariu, Journal of Environmental Science and Health, Part A 48 (11), 1399-1412, 2013
16. Modeling methodology based on Artificial Immune System algorithm and Neural Networks applied to removal of heavy metals from residual waters, EN Drăgoi, GD Suditu, S Curteanu, Environmental Engineering & Management Journal (EEMJ) 11 (11), 2012
17. Genetic algorithms and neural networks based optimization applied to the wastewater decolorization by photocatalytic reaction, GD Suditu, M Secula, CG Piuleac, S Curteanu, I Poulios, Rev. Chim 59 (7), 816-825, 2008
18. Digitization of the environmental impact quantification process, GD Suditu, BM Robu, Environmental Engineering and Management Journal 11 (4), 841-848, 2012
19. Response surface optimization of the photocatalytic decolorization of a simulated dyestuff effluent, MS Secula, GD Suditu, I Poulios, C Cojocaru, I Cretescu, Chemical Engineering Journal 141 (1-3), 18-26, 2008

Septembrie 2026

Lista de lucrări în domeniul de studii universitare de licență
Ecodesign si tehnologii sustenabile / Ecodesign and sustainable technologies

Numele şi prenumele: **TELIŞCĂ MARIUS**

A. Teza de doctorat.

Institutie: *Universitatea Tehnica* «Gh.Asachi» Iasi, Facultatea de Hidrotehnica
Perioada: 2005 - 2011
Coordonator: prof.dr.ing. Ion Giurma
Titlul tezei: *Monitorizarea unor fenomene meteorologice periculoase*, susţinută in 21.10.2011, diploma seria H nr. 0005597/12.01.2012, emisa in baza ordinului nr. 6697 din 21.12.2011 a Ministrului Educatiei, Cercetarii, Tineretului si Sportului

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. **Telisca M.**, Antohi C., *Considerations on dangerous meteorological phenomena and their implications*, p. 71-88, *Current topics, concepts and research priorities in environmental chemistr*y *(I)*, Editor Carmen Zaharia, Ed. Universităţii „Alexandru Ioan Cuza", 2012, Iaşi, ISBN: 978-973-703-797-8(general), , ISBN: 978-973-703-798-5(vol. I);
2. Ana Vîrsta, Ion Giurma, Simona Oancea, Diana Păun, **Marius Telişcă**, 2010, *Efecte ale insulelor de căldură în climatologie, medicină şi inginerie*, Editura Nouă, Bucureşti, 186 pag., ISBN 978-606-8082;
3. Antohi C., Cotiusca-Zauca D., **Telisca M.** , 2009, **–** *Tehnologii de achizitie, monitoring si diagnoza a calitatii mediului*, Editura Performantica, Iasi, 240 pagini, ISBN – 978-973-730-616-6;
4. Antohi C., **Telisca M.** , 2004, **–** *Monitoringul factorilor de mediu- lucrari practice*, Editura Performantica, Iasi, 160 pagini, ISBN – 973-7994-39-6.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Ramona Cimpoeșu, Romeu Chelariu, Alexandra-Tamara Șutic, Adrian Alexandru, Ana-Maria Roman, Gheorghe Bădărău, Raluca-Maria Florea, Cătălin-Andrei Țugui, Mihai-Adrian Bernevig, **Marius Telișcă**, *In Vitro Corrosion Behavior of a Biodegradable ZnMg-Ti Alloy in DPBS,* Acta Technica Napocensis – Series: Applied Mathematics, Mechanics and Engineering, Vol. 69, Issue 1, Special Issue, pp. 151–158, May 2026
2. Popa, Andreea Silvia; **Telişcă, Marius**; Dima, Mihai; Pascariu, Alexandru, *Sustainable Water Management Strategies in the Context of Climate Change: Case Study - Zabala River in the Putna Watershed*, Present Environment & Sustainable Development, 2025, Vol 19, Issue 1, p1 ISSN 1843-5971 DOI 10.47743/pesd2025191019
3. Catrinel-Raluca Giurma-Handley, **Marius Telișcă**, Marian-Cosmin Paerele, *Application of G.I.S. in the quantitative modeling of rainfalls on the catchemnt surface-case study*, 18th

international Multidisciplinary Scientific Geoconference SGEM 2018, Conference Proceedings, Volume 18, Water resources, Forest, Marine and Ocean Ecosystems, Issue: 3.1, Hydrology and water resources, https://doi.org/10.5593/sgem2018/3.1

4. **Telisca M.**, *Study on global dimming generated by atmospheric aerosols*, Environmental Engineering and Management Journal, Vol.: **12**/2013, issue: 4, p. 747-750

5. Craciun I., Giurma I., Giurma-Handley R., **Telisca M.**, Boboc V., „*Evaluating the climatic changes in the hydrological flow regime of the Moldavian areas", ",* Environmental Engineering and Management Journal, Vol. **10**/2011, No.12, ISSN1582-9596, p. 1983-1986;

6. Giurma I., Giurma-Handley R., Craciun I., **Telisca M.**, Antohi C.M., (2010) *" Innovative solution for warning on high intensity rainfalls",* Environmental Engineering and Management Journal, Vol. 14/2010, ISSN1582-9596, p. 709-712;

7. Giurma-Handley R., Craciun I., Giurma I., **Telisca M.**, (2010) *" Innovative solution for monitoring of landslide critical areas",* Environmental Engineering and Management Journal, Vol. 9/2010, No.4, ISSN1582-9596, p. 479-481;

8. Craciun I., Giurma I., Giurma-Handley C.R., **Telisca M**., *Integrated quantitative and qualitative monitoring system of water resources,* 6th International Conference on the Management of Technological Changes, Sept. 3-5, 2009, Alexandroupolis, Greece, Book 2, pg. 53-56

9. Giurma I., **Telisca M.**, Bargan L., *GIS tehnique used on regional analisys of meteorological parameters*,–6th Int. Conf. on the Management of Technological Changes, Chania, Greece, 2009, Book 1, 81-83, Greece

10. Giurma-Handley C.R., Craciun I., Giurma I., **Telisca M.**, *Modeling techniques of the groundwater's pollution risk*, 6th International Conference on the Management of Technological Changes, Sept. 3-5, 2009, Alexandroupolis, Greece, Book 2, pg. 73-75

11. Bargan L., Giurma I., **Telisca M,** *Identifying the critical areas for surface runoff throught computerized modeling,* 6th Int. Conf. on the Management of Technological Changes, Chania, Greece, 2009, Book 1, 573-576, Greece

12. C.-R. Giurma, **M. Telişcă**, P. Cercel, *Necesity of transition towards new technologies under the pressure of global climate changes,* The 5th International Conference Management of Technological Changes, Alexandroupolis, Greece, 25-26 August 2007, pg. 467-472, ISBN 978-960-8932-2-9

13. P. Cercel, C.-R. Giurma, **M. Telişcă**, M. Cercel, *Evaluating the slope stability on earth dams using the compute programs GALENA and CHASM,* The 5th International Conference Management of Technological Changes, Alexandroupolis, Greece, 25-26 August 2007, pg. 341-346, ISBN 978-960-8932-2-9

14. *D* I. Giurma, **M. Telişcă**, C. Antohi, C.-R. Giurma, D*etector for non-ionizing radiation,* 4th International Conference "Management of Technological Changes" (Chania, Greece, 19-20 August 2005), **Book 1** Pages: 255-260

15. I. Giurma, D. Pavnev, C. Antohi, C.-R. Giurma, **M. Telişcă**, *New technologies used for air, surface and liquid disinfection,* 4th International Conference "Management of Technological Changes" (Chania, Greece, 19-20 August 2005), Book 1 Pages: 261-266

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Raluca Mitroi, Valentin Boboc, **Marius Telisca**, Catrinel-Raluca Giurma-Handley, *Python routine for uniform flow in trapezoidal open channels*, PANGEEA edited by "1 Decembrie 1918" University of Alba Iulia Romania, Issue25/1 Year 2024 ISSN 1841-1517 DOI: 10.29302/Pangeea 24.06, pg. 45-52

2. **Marius Telişcă**, Catrinel-Raluca Giurma-Handley, Cosmin Parele, Anca Zaborilă, *Precipitation modeling in the Slanic hydrographic basin using ARCMAP*, PANGEEA edited by "1 Decembrie 1918" University of Alba Iulia Romania, Issue24/1 Year 2024 ISSN 1841-1517 DOI: 10.29302/Pangeea 24.11, pg. 85-9

3. Alexandru-Ion Pascariu, Mihai Dima, **Marius Telișcă**, Andreea Silvia Popa, *Key Design Parameters for Optimizing Tertiary Wastewater Treatment*, Buletinul Institutului Politehnic din Iaşi Volumul 71 (75), Numărul 4, 2025 DOI: 10.5281/zenodo.19660149 pages 27 - 45
4. Raluca Mitroi, Valentin Boboc, **Marius Telisca**, Catrinel-Raluca Giurma-Handley, *Python routine for uniform flow in trapezoidal open channels*, PANGEEA edited by "1 Decembrie 1918" University of Alba Iulia Romania, Issue24/1 Year 2024 ISSN 1841-1517 DOI: 10.29302/Pangeea 24.06, pg. 45-52
5. Marius Telișcă, Catrinel-Raluca Giurma-Handley, Cosmin Parele, Anca Zaborilă, Precipitation modeling in the Slanic hydrographic basin using ARCMAP, PANGEEA edited by "1 Decembrie 1918" University of Alba Iulia Romania, Issue24/1 Year 2024 ISSN 1841-1517 DOI: 10.29302/Pangeea 24.11, pg. 85-90
6. Paul Marian Gherasim; **Marius Telisca;** Mihai Dima; Cornel Dudau, *GIS analyzes on the urban heat island and newly built areas the city of Iasi* International Multidisciplinary Scientific GeoConference: SGEM; Sofia, Vol. 22, Iss. 4.2, (2022). DOI:10.5593/sgem2022V/4.2/s19.36, ISSN1314-2704 ISBN 978-619-7603-50-7
7. Anca ZABORILĂ, **Marius TELIȘCĂ**, Ioan BALAN, Catrinel Raluca GIURMA-HANDLEY, *Deriving a unit hydrograph for Tazlău River Basin using ArcGIS*, Paula STOICA, Present Environment and Sustainable Development Volume 16, Issue no.2/ 2022, pg. 249-257, DOI: https://doi.org/10.47743/pesd2022162020; www.pesd.ro
8. Analysis of Torrential Rainfall and Automatic Monitoring of the Rainfall Regime in the Catchment of the Slănic River, Bacău County, C Paraschivescu, M TELIȘCĂ, CR Giurma-Handley, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi Volumul 66 (70), Numărul 4, 2020 Secţia CONSTRUCŢII. ARHITECTURĂ
9. Craciun I., Giurma C.-R., **Telisca M.**, *Predicting the climate change effects related to environmental factors*, Buletin of IP Iasi, Fasc.I-IV, Hidrotechnics, ISSN 1224-3892, 2008
10. Catrinel-Raluca Giurma-Handley, I.Craciun, **M.Telisca**, *Analysis of the Climatic Changes Perspectives using Mathematical Models*, Buletin of IP Iasi, Fasc.I-IV, Hidrotechnics, ISSN 1224-3892, 2008
11. **M. Telişcă**, C.-R. Giurma, P. Cercel, *The increase of strong rainfall concentrated on small areas as an effect of climatic changes*, 2007, Ovidius University Annals Series: Civil Engineering, Volume 1, Number 9, 2007
12. P. Cercel, C.-R. Giurma, **M. Telişcă**, M. Cercel, *Analisys over software calibration regarding the slope stability for earth dams*, Buletinul Institutului Politehnic Iasi, Sectiunea Hidrotehnica, Tomul LII (LVI), Fasc. 1-4, 2006, p.53-60;
13. I. Logigan, **M. Telişcă**, *Evaluation of soil loses in economic-energetically study of anti erosion projects.*, Buletinul Institutului Politehnic Iasi, Sectiunea Hidrotehnica, Tomul LII (LVI), Fasc. 1-4, 2006, p.115-118;
14. I. Logigan, **M. Telişcă**, *Analysis of energetic consumptions in design solution and execution technologies of soil erosion projects. A case of study*, Buletinul Institutului Politehnic Iasi, Sectiunea Hidrotehnica, Tomul LII (LVI), Fasc. 1-4, 2006, p.119-124

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Alexandru-Ion Pascariu, Mihai Dima, **Marius Telișcă**, Andreea-Silvia Popa, *Sustainable reuse of treated wastewater in agriculture -experimental research and effects on soil*, The 21st Edition of Present Environment and Sustainable Development International Conference „Alexandru Ioan Cuza" University, of Iași Faculty of Geography and Geology Department of Geography Environmental Science Collective, 12th- 14th June 2026
2. Ionuț Emilian Todirica, Raluca Mitroi, Anca Zaborila, **Marius Telisca**, *Influence of varying base demands on water age in a water distribution system*, PRESENT ENVIRONMENT AND SUSTAINABLE DEVELOPMENT Volume 18, Issue no.1/ 2024
3. Andreea-Silvia POPA, **Marius TELIȘCĂ**, Mihai DIMA, Alexandru PASCARIU Gheorghe

Asachi Technical University of Iasi, Iasi, Romania Sustainable Water Management Strategies in the context of climate change: case study - Zăbala River in the Putna catchment Present Environment and Sustainable Development INTERNATIONAL CONFERENCE XIX-th edition, Iasi 7-9 june 2024

4. Raluca Mitroi, Anca Zaborilă, **Marius Telișcă**, Valentin Boboc, Catrinel-Raluca Giurma-Handley, *Python routine for uniform flow in trapezoidal open channels*, Geomat 2023, 16-17.11.2023

5. **Marius Telișcă**, Catrinel-Raluca Giurma-Handley, Cosmin-Marian Paerele, Anca Zaborilă, *Precipitation modeling in the Slanic hydrographic basin using ARCMAP*, Geomat 2023, 16-17.11.2023

6. Alexandru-Ion Pascariu, **Marius Telisca**, Andreea-Silvia Popa, Mihai Dima, Raluca Mitroi, *The necessary parameters for the optimization of the advanced purification stage*, Present Environment and Sustainable Development INTERNATIONAL CONFERENCE XIX-th edition 7 - 9 JUNE 2023

7. Andreea-Silvia Popa, **Marius Telișcă**, Alexandru-Ion Pascariu, Mihai Dima, Anca Zaborilă, *Study regarding the interdependence between the terrestrial ecosystems and the underground water corps*, Present Environment and Sustainable Development INTERNATIONAL CONFERENCE XIX-th edition 7 - 9 JUNE 2023

8. Ionuț Emilian Todirică, Raluca Mitroi, Anca Zaborilă, **Marius Telișcă**, *Influence of varying base demands on water age in a water distribution system*, Present Environment And Sustainable Development International Conference XIX-Th Edition 7 - 9 JUNE 2023

9. Paula Stoica, Anca Zaborilă, Catrinel-Raluca Giurma-Handley, Ioan-Corneliu Marțincu, **Marius Telișcă**, *Employing ArcGIS Model Builder to automate the process of watershed delineation*, Present Environment and Sustainable Development INTERNATIONAL CONFERENCE XIX-th edition 7 - 9 JUNE 2023

10. **Marius Telisca**, Catrinel-Raluca Giurma-Handley, Cosmin-Marian Paerele, Paula Stoica, *Application of GIS functions in order to obtain the digital terrain model*, International Symposium GEOMAT – 2022, Romanian Surveying Week, Iasi, 15 - 19 November 2022

11. Stoica Paula, Zaborilă Anca, **Telișcă Marius**, Balan Ioan, Giurma-Handley Catrinel-Raluca *Deriving a unit hydrograph for Tazlău River Basin using ArcGIS* Pag. 31-31 Gheorghe Asachi Technical University of Ias iPresent Environment and Sustainable Development Ediția 17, 2022 Simpozionul "Present Environment and Sustainable Development" Iași, Romania, 3 iunie 2022

12. Catrinel-Raluca Giurma-Handley, **Marius Telișcă**, Marian-Cosmin Paerele, *Application of G.I.S. in the quantitative modeling of rainfalls on the catchemnt surface-case study*, 18th international Multidisciplinary Scientific Geoconference SGEM 2018, Albena, Bulgaria, 30 June - 9 July, 2018

13. **Marius Telisca**, Catrinel-Raluca Giurma-Handley, Cosmin-Marian Paerele, *Water courses arrangement, a practical way of applying the integrated water management concept on catchments*, Ediția a XIII-a Simpozionul Internațional Present Environment & Sustainable Development 1-3 iunie, 2018

14. Rares-Eduard Hugianu, Mihai Dima, **Marius Telisca** , Tomi-Alexandrel Hraniciuc , *A review of remote sensing image fusion methods*, Ediția a XIII-a Simpozionul Internațional Present Environment & Sustainable Development 1-3 iunie, 2018

15. Giurma I., **Telisca M**., Schemes of torrential formations arrangement in order to prevent the effects of extreme hydrometeorological phenomena, GEOMAT 2015, noiembrie 2015, Iasi

16. Ioan Crăciun, **Marius Telisca**, Maria-Cristina Timofte, Ionut-Claudiu Pricop, *Impact of the Overland Flow and Topography to Groundwater in the Experimental and Representative Ciurea-Tinoasa Hydrographical Basin*, 7th International Conference on Environmental Engineering and Management, ICEEM07, Session 3.2. Section Modeling, Simulation and Optimization, Vienna, Austria, September 18 – 21, 2013

17. Loredana Mariana Crenganis, **Marius Telisca**,*GIS application in water resources management and environmental engineering, Global Conference on Environmental Studies* (CENVISU- 2013) 24 - 28 April 2013 Sentido Zeynep Golf & Spa Resort and Hotel, Belek,

Antalya, Turkey", published online in AWERProcedia Advances in Applied Sciences., http://www.world-education-center.org/index.php/paas. ; vol. 1(2013), 680-687

18. **Telisca M**.,"*Considerations on causes of climate changes*", the XVI – th International Conference INVENTICA 2012, ISSN: 1844 – 7880, June 13-15, 2012, Jassy, Romania, p. 469-473;

19. **Telisca M**.,"*Considerations on dangerous climate change*", a XIV – a Conferinta Internationala de Inventica ,Cercetari si tehnologii inovative performante'' INVENTICA 2010, ISBN: 978-973-730-719-4, June 9-11, 2010, Jassy, Romania, p. 352-359Dinu I., Bargan L., Telisca M. „*Issues concerning the theory and development of thickening design and simulation software*" , , a XIII – A Conferinta Internationala de Inventica „ Cercetari si tehnologii inovative performante'', June 4-6,2009, Jassy, Romania, 511-518

20. Bargan L, Dinu I., **Telisca M**., „*Administration tehniques of datas from exterme hydrological phenomena",* a XIII – A Conferinta Internationala de Inventica „Cercetari si tehnologii inovative performante'', June 4-6,2009, Jassy, Romania,497-504

21. **Telisca M**.,Dinu I.,Bargan L., „*Advancing our understanding of future climate change*", a XIII – A Conferinta Internationala de Inventica „ Cercetari si tehnologii inovative performante'', June 4-6,2009, Jassy, Romania

22. Giurma I., Antohi C-tin, Craciun I., Giurma-Handley C.R., **Telisca M**., Hraniciuc T., Archip M., Poster of the PNII - CNCSIS project, code 596 „Innovative techniques for protection against disasters caused by climatic changes", Targul International Tehnic TEGA-2008, Timisoara ianuarie 2008, Salonul International Jubiliar al cercetarii inventiilor si transferului tehnologic INVENTICA 2008, Ed. XII, Iasi 21-24 Mai 2008

23. Giurma I., Craciun I., Giurma-Handley C.R., **Telisca M**., Alexoaie-Conache P., Poster of the PNII project, MedC code 1844 „The satelite detection of the termal gradients generated by the global climatic changes over Romanian's territory by Heat Island, including solutions to decreasing the effects (DESATEMP)" Salonul National al Inventicii si cercetarii Iasi 600, 14-20 Mai 2008, Salonul International Jubiliar al cercetarii inventiilor si transferului tehnologic INVENTICA 2008, Ed. XII, Iasi 21-24 Mai 2008

24. Giurma I., Antohi C-tin, Craciun I., Giurma-Handley C.R., Patras B., **Telisca M**., Archip M.L., Matei D., Poster of the CNCSIS project, code 230 „Research regarding the qualitative and quantitative monitoring of the water resources in the contex of the durable development" Salonul National al Inventicii si cercetarii Iasi 600, 14-20 Mai 2008, Salonul International Jubiliar al cercetarii inventiilor si transferului tehnologic INVENTICA 2008, Ed. XII, Iasi 21-24 Mai 2008

25. Giurma I., Antohi C-tin, Craciun I., Giurma-Handley C.R., **Telisca M**., Hraniciuc T., Archip M., Poster of the PNII - CNCSIS project, code 596 „*Innovative techniques for protection against disasters caused by climatic changes*" Salonul National al Inventicii si cercetarii Iasi 600, 14-20 Mai 2008, Salonul International Jubiliar al cercetarii inventiilor si transferului tehnologic INVENTICA 2008, Ed. XII, Iasi 21-24 Mai 2008

26. Craciun I., Giurma I., Antohi C-Tin, **Telisca M**., Giurma-Handley Catrinel-Raluca, Hraniciuc T., Archip Mihaela-Lorelei, *Evaluation of the Influence of the Climatic Changes on Hydrological Flow Regime*, IC.DPM.03, 1-2 Nov, 2007, Section I –„Floodings" ,Iaşi, Romania, ISBN:978-973-730-406-3, pg. 37-46;

27. Giurma I., Antohi C-Tin, **Telisca M**., Craciun I., Giurma-Handley Catrinel-Raluca, Hraniciuc T., Archip Mihaela-Lorelei, *Projections of Possible Future Climate Changes,* IC.DPM.03, 1-2 Nov, 2007, Section IV - „Environmental Impact of Hydrotechnical Arrangements" Iaşi, Romania, ISBN:978-973-730-406-3, pg. 411-418

28. Antohi C.-M., **Telisca M**., Giurma I., Giurma-Handley C.-R. ,*Climatic Changes – Research Hypothesis*, IC.DPM.03, November 1st-2nd, 2007, Iaşi, Romania, ISBN:978-973-730-406-3, pg. 155-158

29. Constantin-Marin Antohi, **Marius Telişcă**, *Schimbările climatice – Ipoteze de cercetare*, a XIX-a Conferinta Internationala de Inventica „Cercetari si tehnologii Inovative Performante", 2007, Iasi, 30 mai-2iunie, ISBN: 978-973-730-378-3, pag. 329-333;*Tehnologii inovative pentru dezinfecţia aerului, apei şi a unor suprafeţe,* C. Antohi, D. Pavunev , M. Telişcă, Editia a XVII-a a Simpozionului International INVENTICA – Performanta si Creativitate Tehnica, Iasi, 5-9 iulie 2006
30. C. Antohi, **M. Telişcă**, *Instalaţie de avertizare pentru construcţii hidrotehnice*, Editia a XVII-a a Simpozionului International INVENTICA – Performanta si Creativitate Tehnica, Iasi, 5-9 iulie 2006
31. **M. Telişcă**, C.-R. Giurma, P. Cercel, *Studiu asupra precipitaţiilor din regiunea acumulării Timişeşti, bazinul hidrografic Siret*, Editia a XVII-a a Simpozionului International INVENTICA – Performanta si Creativitate Tehnica, Iasi, 5-9 iulie 2006
32. C.-R. Giurma,, **M. Telişcă**, P. Cercel, *Studiu asupra caracteristicilor hidrogeologice ale acumulării Timişeşti, bazinul hidrografic Siret,* Editia a XVII-a a Simpozionului International INVENTICA – Performanta si Creativitate Tehnica, Iasi, 5-9 iulie 2006;
33. P. Cercel, C.-R. Giurma, **M. Telişcă**, *Prelucrare datelor hidrologice cu privire la barajele de pamant cu ajutorul programului de calcul GALENA*, Editia a XVII-a a Simpozionului International INVENTICA – Performanta si Creativitate Tehnica, Iasi, 5-9 iulie 2006;
34. Catrinel-Raluca Giurma, **Marius Telişcă**, Petru Cercel, *Inventarierea factorilor de mediu afectaţi de schimbările climatice,* International Conference DISASTER AND POLLUTION MONITORING, Facultatea de Hidrotehnică, Iaşi, 18 –20 Noiembrie 2005.
35. Constantin-Marin Antohi, **Marius Telişcă**, *Aparat pentru măsurat viteza apei*, a XVII –a Conferinţă Internaţională de inventică "Cercetări şi tehnologii Inovative Performante", Iasi, Romania, 26 – 29 Mai 2005.
36. C. M. Antohi, **Marius Telişcă**, *Fenomene atmosferice generatoare de catastrofe - tornadele*, Ediţia a XVII-a a Simpozionului Internaţional INVENTICA – PERFORMANŢĂ ŞI CREATIVITATE TEHNICĂ, Mai 2004.
37. Constantin Marin Antohi, Raluca Giurmă, **Marius Telişcă**, *Avertizor de depăşire a pragului de debit şi turbiditate*, International Conference DISASTER AND POLLUTION MONITORING, Facultatea de Hidrotehnică, Iaşi, 18 –20 Noiembrie 2004.

J. Invenţii.

1. Instalație limnimetrică autonomă multifuncțională, Dosar OSIM a-2020-00347, RO135405 A2,Autori: Hrăniciuc Tomi - Alexandrel [Ro]; Antohi Constantin Marin [Ro]; Telişcă Marius [Ro]
2. Instalație de avertizare la construcțiile hidrotehnice aflate în exploatare, Dosar OSIM a-2020-00346, RO 135404 A2 din 31.12.2021, Autori: Telişcă Marius [Ro]; Antohi Constantin Marin [Ro]; Hrăniciuc Tomi - Alexandrel [Ro]
3. Instalatie ecologica pentru aerarea apelor de suprafata, RO127188-A2; RO127188-B1, Autori: Giurma I., Antohi C-tin., Craciun I., Telisca M.,
4. *Pluviometru sonor,* Brevet RO nr. 123153/30.12.2010.
5. Avertizor pentru radiatii neionizante (UV, IR), Dosar OSIM a – 00530 – 2006
6. Traductor anemorumbometric, Dosar OSIM A-00644/22,11,2010, Autori: Telisca M., Antohi C-tin.,

K. Contracte de cercetare.

1. Proiect 101103894-TEACH4SD, Transforming Education Area and Competency Hub for sustainable Development -TEACH4SD cod ERASMUS-EDU-2022-PEX-COVE, 15.10.2025 - 31.03.2026. Expert implementare COR: 235104,
2. Proiect "Echitate în educație și incluziune socială în comunitatea TUIASI", cod CNFIS-FDI-2024-F-0214, 05.05.2025-30.05.2025, funcția "Coordonator activitati studenti" COR: 242104,CIM nr. 26471/30.04.2025,

3. Proiect "Facilitarea inserției pe piața muncii a absolvenților Universității Tehnice Gheorghe Asachi din Iași prin stagii de practică și programe educaționale adaptate la cerințele mediului industrial – POCU INSERT", acronim INSERT Cod MySMIS2021+: 310633 Contract G2024-97215_OIPEO/18.12.2024, ian 2025 CIM nr 26173/24.03.2025, expert Grup Țintă
4. Proiect "Echitate în educație și incluziune socială în comunitatea TUIASI", cod CNFIS-FDI-2024-F-0490, 10.06.2024-01/07.2024, funcția "Coordonator activitati studenti" COR: 242104.
5. Proiect ERASMUS+ KA131, contract finantare 2022-1-R001-KA131-HED-000053547, functie Expert învățământ/COR:235104, CIM. 24707/31.10.2023, perioada activitate 01.11.2023-31.01.2024
6. CNFIS-FDI-2023-F-0028 "OpenDays – Ziua porților pemanent deschise la TUIASI" , funcția "Responsabil promovare / COR 242104" CIM 24058/28.04.2023
7. Proiect ROSE AG 288/SGU/CI/III – Rețea de laboratoare didactice pentru discipline generale specifice studiilor de inginerie – NetLab – functie Formator antreprenoriat, CIM 24658/19.10.2023, perioada activitate 20.10.2023-18.12.2023,
8. ROSE AG 325/SGU/PV/III din 18.06.2020 Școala de vară – Alege să fii inginer la HIDRO! Expert ghidare grup tinta
9. Membru in Contract 2019-1-RO01-KA103-061457, "ERASMUS+ KA103", 01.05.2021-31.10.2021, 75000EUR /3 ani, 19 membri
10. Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat-AntreprenorIng, cod SMIS POCU/379/6/21/123975., CIM 21479/09.07.2021
11. "Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții - EFECON" Contract subsidiar nr. 10/01.08.2018: Cercetari experimentale industriale pentru conversia cu plasma pe hidrogen a deseurilor municipale in energie pentru alimentarea ansamblurilor de locuit Apel: POC/71/1/4/ Parteneriate pentru transfer de cunoştinţe (Knowledge Transfer Partnership) Cod MySMIS: 2014 P_40_295, Beneficiar: UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI, Întreprindere solicitantă: SC 3D ECAS ENERGY SRL
12. Expert grup tinta si angajabilitate, proiect: "Insertia absolventilor prin stagii de pregatire PRACtica moderne si eficiente din cadrul Universitatii TEHnice Gheorghe Asachi din Iasi, pe piata muncii – PRACTEH", Contract POCU/626/6/13/131181 (OIPOSDRU NE 10372/21.09.2020), FONDUL SOCIAL EUROPEAN, Programul Operațional Capital Uman 2014-2020, Axa prioritară 6 Educație și Competențe, Obiectiv specific 6.13 Creșterea numărului absolvenților de învățământ terțiar universitar și non universitar care își găsesc un loc de muncă urmare a accesului la activități de învățare la un potențial loc de muncă/cercetare/inovare, cu accent pe sectoarele economice cu potențial competitiv identificate conform SNC și domeniile de specializare inteligentă conform SNCDI (Buget POCU 4741748,54 LEI, 24 luni)
13. Proiect ROSE AG 260/25.11.2019, Proiectează-ti viitorul la Hidrotehnică, Geodezie și Ingineria Mediului - BE SMART, Proiectul privind Învățământul Secundar (ROSE) - Schema de Granturi Necompetitive pentru Universități (SGU-N) –director de grant,
14. Proiect POSDRU/155/1.2/S/141884, *Comunitate virtuală pentru asigurarea calităţii şi perfecţionării managementului strategic şi inovativ în universităţile tehnice şi compozite, în vederea creşterii relevanţei învăţământului superior pentru piaţa muncii –ACAD-INOV",* Agenţia Română de Asigurare a Calitatii în Învăţământul Superior - ARACIS, universităţi partenere: P1 - Universitatea "Politehnica" din Bucureşti, P2 - Universitatea "Dunărea de Jos" Galaţi, P3 - Universitatea Tehnică "Gheorghe Asachi" din Iaşi, P4 - Universitatea Transilvania din Braşov, P5 - The Red Point SA Iasi, pozitia in proiect – asistent manager operational P3, aprilie 2014 – noiembrie 2015;
15. Proiect POSDRU/125/5.1/S/134003, Inserţie activă pe piaţa muncii prin FORMare profesională inovativă în domeniul INGineriei –FORMING", P1 -Universitatea "Politehnica" din Bucureşti, P2 - Universitatea Politehnica din Timisoara, P3 - Universitatea "Lucian Blaga" din Sibiu, P4 - Universitatea Tehnică "Gheorghe Asachi" din Iaşi Universitatea Transilvania din Braşov, P5 - The Red Point SA Iasi, P6 - Ascendo, pozitia in proiect – expert relatia cu piata muncii P4, iunie 2014 – noiembrie 2015

16. Proiect POSDRU/86/1.2/S/61830, *Creşterea calităţii învăţământului superior de inginerie - Platformă Informatică pentru Ingineria Fluidelor (PiiF*), Universitatea Tehnică de Construcţii Bucureşti, universităţi partenere: P1 -Universitatea "Politehnica" din Bucureşti, P2 - Universitatea "Politehnica" din Timişoara, P3 - Universitatea "Dunărea de Jos" Galaţi, P4 - Universitatea Tehnică din Cluj Napoca, P5 - Universitatea Tehnică "Gheorghe Asachi" din Iaşi, manager proiect: prof.dr.ing. Anton Anton, coordonator UTI: prof.dr.ing. Bartha Iosif, colectiv UTI: prof.dr.ing. Giurma Ion, prof.dr.ing. Luca Mihail, conf.dr.ing. Cotiuşcă-Zaucă Dorin, conf.dr.ing. Mitroi Amedeo, conf.dr.ing. Marcoie Nicolae, conf.dr.ing. Crăciun Ioan, asist.drd.ing. Toma Daniel, ing. Alexoaie Conachi Petru, **şef lucr.dr.ing. Telişcă Marius**, ing. Archip Mihaela Lorelei, ing. Mihăilă Adrian, ec. Giurma Doina, valoare totală contract: 16.393.526 RON, perioada 2010–2013
17. Ctr. PN2 cod MedC 2188, nr 32-125/01.10.2008, *Sistem suport tehnico-decizional pentru managementul durabil al apei* (STEDIWAT); Director: Carmen Teodosiu; Membri in echipa: Ion Giurma; Ioan Craciun; **Marius Telisca**
18. Ctr. PN2 Cod MEdC: 1844 Programul 4 – PARTENERIATE IN DOMENIILOR PRIORITARE, DIRECTIA DE CERCETARE: D3 – MEDIU, *Detectarea satelitara a gradientilor termici generati de schimbarile climatice globale pe teritoriul Romaniei prin insule de caldura, inclusiv solutii de atenuare a efectelor acestora* (DESATEMP), 2007 – 2010, Resp. Stiintific UTI: prof.dr.ing. Ion GIURMA
19. Contract PN2 cod CNCSIS ID_596, Proiecte de cercetare exploratorie IDEI „*Tehnici inovative de protectie impotriva dezastrelor cauzate de schimbarile climatice*" Director de grant: prof.dr.ing. Ion Giurma
20. Grant *Instalatie de verificare a debitmetrelor DEBIT-METROL*, M4-380 /14.07.2006, ANCS RENAR, Director grant: Conf.dr.ing. Dorin Cotiusca-Zauca
21. Grant *Impactul lacurilor de acumulare asupra mediului ENVIROLAC*, CEEX-M1-C2-2068/2006, ANCS MENER, Director grant: Prof.dr.ing. Ion Giurma
22. Grant *Evaluarea influentei schimbarilor climatice in gestionarea resurselor de apa*, (CEEX – M2-C2 3193/ 13.10.2005, Tema 34, Program de Excelenta CNCSIS), Director grant Catrinel Raluca Giurma, Beneficiar MEC.
23. Contract Nr.12, 2001-2003 Realizarea de echipamente fixe si mobile pentru obtinerea apei potabile
24. Contract nr. 35259, Tema 21, cod CNCSIS 209 Cercetări privind impactul ecologic al lacurilor de acumulare complexe
25. Grant *RELANSIN 1609/2001-2003*, Protectia contra manifestarilor meteorologice si de radiatii periculoase a culturilor vegetale prin retehnologizarea si modernizarea serelo

L. Premii, distincţii.

1. FIRI Diploma, presented to Giurma I, Antohi C.-M., Craciun I, Telişcă M., for the best invention Installation to oxygenate surface water and protect aquatic environment from any organic pollution, presented on the 42nd International Exhibition of Inventions New Techniques and Products GENEVA, Aprilie 02-06, 2014, Geneva, Switzerland
2. Medalie de aur, Giurma I, Antohi C.-M., Craciun I, Telişcă M., pour l'invention: Instalation pour aérer la surface de l'eau et protéger le milieu aquatique de toute pollution organique, Genève, 4 avril 2014
3. Medalie de argint pentru „Instalaţie pentru aerarea apelor de suprafaţă", autori: I. Giurma, C-M.Antohi, I. Crăciun, M. Telişcă, cu ocazia celei de-a 16-a ediţii a Salonului de Invenţii şi Inovaţii INVENTIKA, 15-18 octombrie 2014, Bucureşti, România.
4. Medalie de aur pentru "Shallow water aeration plant", autori: I. Giurma, C-M.Antohi, I. Crăciun, M. Telişcă, cu ocazia celei de-a 12-a ediţii a International Innovative Exhibition ARCA 2014, 15-18 octombrie 2014, Zagreb, Croatia.
5. Marele Premiu pentru inventia "Instalatie pentru aerarea apelor de suprafata cu energie solara si eoliana", Salonul INVENTICA, editia a VIII-a, Baia Mare, Ion Giurma, Constantin Antohi, Ioan Craciun, Marius Telisca, 28-29 mai 2015

6. Diploma de excelenta cu medalia Invest Invent, Sectiunea Idei, pentru invenţia „Traductor anemorumbometric", la Targul Internaţional de Invenţi şi Idei Practice, Bucureşti, 17-23 iunie 2013;
7. Diplom of honour, pentru Marius Telisca, for „Consideration on causes of climate changes", in recognition of high scientific contribution and loyalty to the XVI-th International Conference „INVENTICA 2012", 13-15 June 2012, Iasi, Romania
8. Medalie de aur pentru inventia „Instalatie ecologica pentru aerarea apelor de suprafata", Giurma I., Craciun I., Antohi C.M., Telisca M., cu ocazia celei de-a 15-a editii a *Expozitiei internationale de inventii, cercetare stiintifica si tehnologii noi INVENTIKA 2011*, organizata de ANCS, 5-8 octombrie 2011, Bucuresti, Romania
9. Premiul de excelenţă cu medalia INVENT-INVEST SIR 21-Invenţii pentru invenţia *Traductor anemorumbometric*, la Târgul Internaţional de Invenţii INVENT-INVEST, 25-27 mai 2011, Baia-Mare
10. Diploma de onoare pentru activitatea desfasurata in domeniul creatiei tehnice, Targul INVENT INVEST 2010, Iasi, nov 2010
11. Medalia de argint pentru inventia „Instalatie ecologica pentru aerarea apelor de suprafata", Ion Giurma, Ioan Craciun, Constantin Antohi, Marius Telisca, cu ocazia celei de-a 14-a editii a *Expozitiei internationale de inventii, cercetare stiintifica si tehnologii noi INVENTIKA 2010*, organizata de ANCS, 6-9 octombrie 2010, Bucuresti, Romania
12. Medalia de bronz pentru inventia „Traductor anemorumbometric", Marius Telisca, Constantin Antohi, , cu ocazia celei de-a 14-a editii a *Expozitiei internationale de inventii, cercetare stiintifica si tehnologii noi INVENTIKA 2010*, organizata de ANCS, 6-9 octombrie 2010, Bucuresti, Romania
13. Medalie de aur, Giurma I., Craciun I., Antohi C.M., Telisca M., Ecological equipment for aeration of surface waters, VIth Edition of International Salon of Inventions and New Technologies "New Time" (Sevastopol, Ukraine), 23-25 September 2010
14. Diploma de excelenta, Ioan Craciun, Marius Telisca, Constantin Antohi, Raluca Giurma, pentru inventia „Instalatie pentru aerarea lacurilor", cu ocazia Salonului regional al cercetării 2010, organizata de Camera de Comert si Industrie Bacau, 16 - 19 septembrie 2010, Bucuresti, Romania
15. Medalie de aur pentru proiectul „The impact of storage lakes over the environment" Giurma I., Antohi C.-M., Craciun I., Giurma-Handley C.-R., Telisca M., IIIrd International Invention Salon of New Technologies NEW TIME, 26-28 september 2007, Sevastopol, Ukraine
16. Medalie de bronz pentru inventiile „Pluviometru sonor" şi „Avertizor pentru radiaţii neionizante (UV, IR) " la *Expoziţia Internaţională Specializată INFOINVENT 2007*, 27-30 iunie 2007, Chisinău, Rep. Moldova
17. Medalie de argint şi Diploma de Excelenta pentru inventia "Avertizor de radiatii (UV, IR)" la a V-a ediţie a *Salonului Naţional de Inventica PROINVENT*, aprilie 2007, Cluj-Napoca, România
18. Medalie de aur pentru invenţia „Pluviometru sonor", la cea de-a III-a ediţie a *Salonului Internaţional al Invenţiilor, Cercetării şi transferului tehnologic în Protecţia Mediului ECOINVENT 2007*, 30 mai – 2 iunie 2007, Iaşi, România
19. Premiul Special oferit de OSIM pentru inventia „Pluviometru sonor" la la cea de-a III-a ediţie a *Salonului Internaţional al Invenţiilor, Cercetării şi transferului tehnologic în Protecţia Mediului ECOINVENT 2007*, 30 mai – 2 iunie 2007, Iaşi, România
20. Medalie de bronz pentru "Pluviometru sonor" la cea de-a X-a ediţie a *Salonului Internaţional de invenţii si tehnologii noi INVENTIKA*, 3-7 Octombrie 2006, Bucureşti, România
21. Premiul "Tânărul Inventator" pentru invenţiile prezentate la cea de-a XII-a ediţie a *Salonului Internaţional al Invenţiilor, cercetării Ştiinţifice si Transferului Tehnologic INVENTICA 2006*, 5-9 iulie, Iaşi, România
22. Diploma pentru invenţia "Pluviometru sonor" la a IV-a ediţie a *Salonului Naţional de Inventica PROINVENT*, 2006, Cluj-Napoca, România
23. Diploma de Excelenta cu distincţia "ECOINVENT" pentru invenţia "Pluviometru sonor", acordata de Societatea Inventatorilor din România la *Salonul Naţional de Inventica PROINVENT*, 2006, Cluj-Napoca, România

24. Medalie de argint pentru invenţia “Pluviometru sonor” la *Salonul Internaţional de Invenţii GENEVA*, 7 aprilie 2006, Geneva, Elveţia
25. Diploma de excelenţă la manifestarea expoziţională *Salonul Creaţiei Tehnice*, Bacău, 30 nov. – 3 dec. 2005, Bacău, România
26. Medalia INVENTICA, pentru invenţia “Pluviometru sonor” prezentata in cadrul *Salonului Internaţional INVENTICA 2005*, 18 -21 octombrie 2005, Bucureşti, România
27. Medalia de Aur cu menţiunea speciala a juriului internaţional pentru invenţia Pluviometru sonor, la cea de-a II-a ediţie a *Salonului de Invenţii ECOINVENT 2005*, 26 -29 mai 2005, Iaşi, România

M. Alte realizări semnificative.

Evaluare proiecte

- Expert atestat domeniu EGSC cf. PV 78 din 06.11.2025, Certificat de atestare Seria RGX nr. 765/06.11.2025, emis de Asociația Română de Mediu 1998, valabil pana la 06.11.2028
- Responsabil colectare date GES în Echipa de implementare a cerințelor standardului SR EN ISO 14064-1:2019, Decizie Nr. 3577/21.11.2025, referatul Prorectoratului Managementul Resurselor şi Dezvoltare Instituţională nr. 46388/19.11.2025, Act aditional la CIM marca 8026
- Evaluare 8 proiecte - evaluator UEFISCDI pentru proiectele depuse în cadrul apelului aferent Fondului pentru modernizare - Program cheie 1 - Sprijinirea investiţiilor în noi capacităţi de producere a energiei electrice produsă din surse regenerabile PFM/322/PFM_P1/NA, numit prin deciziile directorului general DGI nr. 360/29.04.2025 și nr. 366/20.05.2025, modificată prin decizia directorului general DGI nr. 367/22.05.2025

Organizări / participări la evenimente / cursuri

- Coordonare Microcredențial "Climate adapted urban infrastructure", organizat în cadrul INGENIUM, parteneri University of Oviedo, Karlsruhe University of Applied Sciences, Gheorghe Asachi Technical University of Iaşi 5-30 oct 2026
- Organizare BIP Rethinking Urban Waterways Making Canals Sustainable and People-Friendly, "Gheorghe Asachi" Technical University of Iași, Faculty of Hydrotechnics, Geodesy & Environmental Engineering, 6 to 10 July 2026, Iasi,
- Organizare curs internațional INGENIUM Coil Course Collaborative Online International Learning ”Tackle Real Work Life Challenges”, 6.10.2025 - 30.11.2025
- Chairperson: Lecturer Marius Telișcă Online Parallel Session 3.3: Wednesday, 13 May, 16.30-18.30 Section 4. Civil engineering and installations https://meet.google.com/ejp-rkxu-jee, ”Gheorghe Asachi” Technical University of Iasi, Romania 9th International Conference of the Doctoral School May 13 - 15, 2026, Iaşi, România
- Organizare Workshop ”Sustainability Day 2025 editia a III-a”, 11 noiembrie 2025, Amfiteatrul A0, HGIM, participanti ROMAIR Consulting SRL, Holcim Romania, 127 participanți
- Prelegere cu tema Sustainable Development in Practice: Bridging Global Challenges and Local Solutions la BIP Sustainable Development in Contemporary Organizations in Virtual Part Schedule, organizat de University of Bielsko-Biala 13.03.2025
- Participare curs online de instruire pentru implementarea unor activități de digitalizare a activităților didactice (predare, evaluare) derulat în cadrul proiectului ”Creșterea calității procesului de învățare prin agregarea cunoștințelor, abilitaților și responsabilităților absolvenților și conștientizarea implicațiilor utilizarii Inteligenței Artificiale (IA) - PROG-RESS 2” - CNFIS-FDI-2024-F-0501. Nov.-Dec. 2024
- Participare workshop Orientation Days organizat pentru studenții Erasmus incoming si internaționali de la TUIASI 26.09.2024 ora 09.00 in Amfiteatrul T2 din Rectorat, corp T,
- Scoala de vara 10 days of INGENIUM : University of Rouen Normandy, May 27-31 at URN, Rouen, France, Școala de Vară INGENIUM pentru Seniori la Université Rouen Normandie, Rouen, Franța, în perioada 25 mai – 1 iunie 2024, mentor studenți

- Workshop Transformative Agreements Awareness Event, Universitatea Tehnică „Gheorghe Asachi” din Iaşi, 13 martie 2024, 11:00-15:00, Amfiteatrul T2
- Eveniment ERASMUS 18 octombrie 2023, ora 14.00, Creative Nest, parter camin T8 campus "Tudor Vladimirescu", eveniment "Orientation Day" for Erasmus+ incoming students.
- Focus-grup, Prorectoratul Relatii Internationale @ Tue Feb 16, 2021 1pm - 3pm (EET) cu privire la organizarea de către Prorectoratul Relații Internaționale a unui training, continuare a ”Empower Your Online Public Speaking Competences” (EYOPSC), cu noi tematici, sub denumirea ”Ambasador TUIASI, Ambasador Global”.
- Certificat de participare la cursul de instruire privind redactarea lucrărilor științifice cu respectarea nomelor de etică și integritate academică derulat în cadrul proiectului cu titlul ”“Creșterea calității procesului didactic prin revizuirea planurilor de învățământ si introducerea unor ghiduri de scriere a programelor pe baza rezultatelor învățării (PROG-RESS)” - CNFIS-FDl-2023-F-0039, activitatea A10 Implementarea unor activități de digitalizare a activităților didactice nov-dec 2023, manager Prof.dr.ing. Ioan Mămăligă
- ERASMUS+ Day@TUIASI, 15 octombrie 2020, Prorectoratul Relații Internaționale
- Membru în comitetul de organizare al Targului International de Inventii INVENT-INVEST SIR20! – Invenţiile aduc invesţiţii!, organizat in perioada 23-26 noiembrie 2010 Sala de expoziţie a Facultăţii de Hidrotehnică a Universităţii Tehnice "Gheorghe Asachi" din Iaşi.
- Membru în comitetul de organizare al celei de-a XIII-a Conferinta Internationala de Inventica ,,Cercetari si tehnologii inovative performante’’, iunie 4-6, 2009, Iasi, Romania
- Membru în comitetul de organizare al Salonului International de Inventii, “ECOINVENT”, 2005, 2007, mai, Iasi, Romania
- Membru în comitetul de organizare al Salonului International de Inventii, “ECOINVENT”, 2003,– iunie, Iasi, Romania;
- Membru în comitetul de organizare al Salonului International de Inventii, “INVENTICA”, 2000, 2002, 2004– iunie, Iasi, Romania;

Data,
09.10.2026

LISTA DE LUCRĂRI ÎN DOMENIUL DISCIPLINELOR DIN POSTUL DIDACTIC

LECT.DR. **FRANKE (MISINCIUC) BIANCA-IULIANA**

A. Teza de doctorat.

Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study – teză de doctorat în domeniul Filologie, modulul Lingvistic, susţinută în luna mai 2018 la Universitatea „Al. I. Cuza" din Iaşi, sub coordonarea prof. univ. dr. Ştefan Avădanei, confirmată în baza Ordinului Ministrului Educaţiei Naţionale nr. 4193 din data de 27.07.2018, cu distincţia „*Summa cum Laude*", publicată în anul 2020 la Editura Performantica Iaşi acreditată CNCSIS, ISBN 978-606-685-716-1.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

Bianca-Iuliana Misinciuc, *Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study*, Performantica, Iaşi, 2020, ISBN 978-606-685-716-1.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Bianca-Iuliana Franke (Misinciuc), *Conceptualization, symbolism and metonymy as mechanisms of metaphorical meaning in idiomatic expressions: Interlinguistic comparison,* Buletinul Institutului Politehnic din Iaşi, Volumul 70 (74), nr. 3-4, Secţia Ştiinţe Socio-umane, 2024, ISSN 1224-5860, pp. 21-34, baza de date CEEOL.

Bianca-Iuliana Franke (Misinciuc), *Unique words and the cultural concepts behind them: discovering the world through language,* Les Cahiers Linguatek, Volumul 7, nr. 13-14, 2023, ISSN 2601-0313, ISSN-L 2559-7752, pp. 190-196, baze de date FABULA, CEEOL.

Bianca-Iuliana Misinciuc, *An experimental analysis of metaphorical thinking in relation to idiomatic expressions,* Philobiblon, Volumul XXIV, nr. 2, 2019, ISSN 2247-8442, ISSN-L 1224-7448, pp. 265-275, baze de date Clarivate Analytics, ERIHPLUS, Scopus, EBSCOhost, WorldCat.

Bianca-Iuliana Misinciuc, *Symbols and concepts as instruments of metaphorical meaning in idiomatic expressions: the figurative value of honey, fire and sand in different languages,* Buletinul Institutului Politehnic din Iaşi, Volumul 65 (69), nr. 3-4, Secţia Ştiinţe Socio-umane, 2019, ISSN 2501-8760, pp. 75-81, baza de date CEEOL.

Bianca-luliana Misinciuc, *The reflection of spatial reality in the creation, understanding and use of idioms,* Les Cahiers Linguatek Volume 3, Nos. 5/6, Espace & Langage, 2019, ISSN 2559-7752, ISSN-L 2559-7752, pp. 147-158, baze de date FABULA, CEEOL.

Bianca-luliana Misinciuc, *Thematic metaphors in idiomatic expressions – illustrated with examples from English, German, Spanish, Portuguese and Romanian*, Buletinul Institutului Politehnic din Iaşi, Volumul 64 (68), nr. 1-2, Secţia Ştiinţe Socio-umane, 2018, ISSN 2501-8760, pp. 27-36, baza de date CEEOL.

Bianca-luliana Misinciuc, *Metaphorical views on death in idioms – A comparative analysis of expressions from German, English, Spanish, Portuguese and Romanian*, Les Cahiers Linguatek No. 3/4, L'Ambiguïté, 2018, ISSN 2559-7752, ISSN-L 2559-7752, pp. 439-446, baza de date FABULA.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

Bianca-luliana Franke (Misinciuc), *The miserable empath. About the dark side of emotional intelligence*, 12th International Conference: Synergies in Communication (SiC), Section 6: Multidisciplinary Approaches to Human Experience, Editura ASE, ISSN 2668-9375, Bucureşti, 2025.

Bianca-luliana Franke (Misinciuc), *The curse of intelligence: The lone genius and the mad scientist,* Mad Science International Interdisciplinary Conference. Innovation, Genius, Madness, Les Cahiers Linguatek 15-16, Editura Politehnium, Iaşi, 2024.

Bianca-luliana Franke (Misinciuc), *Conceptualization, symbolism and metonymy as mechanisms of metaphorical meaning in idiomatic expressions: Interlinguistic comparison,* Buletinul Institutului Politehnic din Iaşi, Volumul 70 (74), nr. 3-4, Secţia Ştiinţe Socio-umane, 2024, ISSN 1224-5860, pp. 21-34, baza de date CEEOL.

Bianca-luliana Franke (Misinciuc), *Natural mechanisms, pedagogical techniques and potential challenges in the process of multilingual language acquisition in a young child*, Values, systems, education. Challenges and Perspectives, International Conference „Education in the Perspective of Values", XVth edition, Editura Eikon, e-ISBN 978-606-49-1052-3, Bucureşti, 2023.

Bianca-luliana Franke (Misinciuc), *Humour in variants of idiomatic expressions*, Means and meanings of communication, Section: Language and Communication, The Proceedings of the International Conference „Communication, Context, Interdisciplinarity", Volume no. 7, Editura Arhipelag XXI Press, ISBN 978-606-93691-9-7, Tîrgu Mureş, 2022.

Bianca-luliana Misinciuc, *A comparative approach to smart features of higher education institutions: UNI Konstanz and UAIC Iaşi*, "Smart Cities": Oraşul Inteligent – Shaping the Cities of Tomorrow – Proceedings of the Smart Cities Conference, 7th Edition, 2019, Editura Universul Academic, ISBN 978-606-9062-44-9, Editura Universitară, ISBN 978-606-28-1118-1, ISSN 2501-1677, ISSN-L 2501-1677, Bucureşti, 2020.

J. Invenţii.

K. Contracte de cercetare.

Cercetător ştiinţific în cadrul contractului tip prestări servicii nr. 7294/2019, cu titlul „Cercetări ştiinţifice şi aplicaţii practice pentru prototipurile C.En în domeniul stocării hidrogenului în materiale din sticlă", director de contract prof.univ.dr.ing. Corneliu Munteanu.

L. Premii, distincţii.

M. Alte realizări semnificative.

N. Realizări din ultimii 5 ani.

Bianca-luliana Franke (Misinciuc), *The miserable empath. About the dark side of emotional intelligence*, 12th International Conference: Synergies in Communication (SiC), Section 6: Multidisciplinary Approaches to Human Experience, Editura ASE, ISSN 2668-9375, Bucureşti, 2025.

Bianca-luliana Franke (Misinciuc), *The curse of intelligence: The lone genius and the mad scientist,* Mad Science International Interdisciplinary Conference. Innovation, Genius, Madness, Les Cahiers Linguatek 15-16, Editura Politehnium, Iaşi, 2024.

Bianca-luliana Franke (Misinciuc), *Natural mechanisms, pedagogical techniques and potential challenges in the process of multilingual language acquisition in a young child*, Values, systems, education. Challenges and Perspectives, International Conference „Education in the Perspective of Values", XVth edition, Editura Eikon, e-ISBN 978-606-49-1052-3, Bucureşti, 2023.

Bianca-luliana Franke (Misinciuc), *Unique words and the cultural concepts behind them: discovering the world through language,* Les Cahiers Linguatek, Volumul 7, nr. 13-14, 2023, ISSN 2601-0313, ISSN-L 2559-7752, pp. 190-196, baze de date FABULA, CEEOL.

Bianca-luliana Franke (Misinciuc), *Humour in variants of idiomatic expressions*, Means and meanings of communication, Section: Language and Communication, The Proceedings of the International Conference „Communication, Context, Interdisciplinarity", Volume no. 7, Editura Arhipelag XXI Press, ISBN 978-606-93691-9-7, Tîrgu Mureş, 2022.

Bianca-luliana Misinciuc, *A comparative approach to smart features of higher education institutions: UNI Konstanz and UAIC Iaşi*, "Smart Cities": Oraşul Inteligent – Shaping the Cities of Tomorrow – Proceedings of the Smart Cities Conference, 7th Edition, 2019, Editura Universul Academic, ISBN 978-606-9062-44-9, Editura Universitară, ISBN 978-606-28-1118-1, ISSN 2501-1677, ISSN-L 2501-1677, Bucureşti, 2020.

Bianca-luliana Misinciuc, *Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study*, Performantica, Iaşi, 2020, ISBN 978-606-685-716-1.

Data,
15.10.2025 Semnătura:

Lista de lucrări în domeniul de studii universitare de licență
Ingineria Mediului

Numele şi prenumele: **Ș.l.dr.ing Ursan Maria**

A. Teza de doctorat.

Institutie: Universitatea Tehnică "Gheorghe Asachi" din Iași
Perioada: 2008-2011
Indrumator: Prof. Dr. Ing. Ciobanu Romeo Cristian
Titlul tezei: „Cercetări privind dezvoltarea şi testarea de materiale compozite nano-conductive pentru ecranare electromagnetică"
Titlul: Doctor în Inginerie Electrică

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.
D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.
E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.
F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.
- Articole publicate în reviste cotate ISI
- Articole publicate în volume indexate ISI Proceedings
- Articole indexate în baze de date internaţionale
G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1.	George–Andrei URSAN**,** Emil VREMERA, **Maria URSAN**, *Implementation of Controller Area Network Node for Humidity Measuring Systems*, Bul. Inst. Pol. Iasi, (CNCSIS, B+), Tomul LVII (LXI) Fasc.3, Sect Electrical Engineering, Power Engineering, Electronics, 2011, pg 103-110, (BDI: Index Copernicus, getCITED, Ulrich's),
2.	**Maria URSAN**, Romeo Cristian CIOBANU and George-Andrei URSAN, *Dielectric testing of novel nano-conductive-polymer composites*, Buletinul Institutului Politehnic din Iaşi, (revista recunoscuta CNCSIS, categoria B+), Secţiunea ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ Tomul LVII (LXI) Fasc.3, Sect Electrical Engineering, Power Engineering, Electronics, 2011, pg 111-116, (BDI: Index Copernicus, getCITED, Ulrich's),
3.	George-Andrei URSAN, **Maria URSAN**, *Application of CAN protocol in vehicle humidity measuring systems*, Bul. AGIR, An XVI, nr.4/2011(ISSN-L 1224-7928, Online: ISSN 2247-3548), (CNCSIS, B+, BDI: INDEX COPERNICUS INTERNATIONAL),
4.	**Maria URSAN**, George-Andrei URSAN, *DIELECTRIC PROPERTIES CHARACTERISATION AND 3D VISUALIZATION OF NANO-CONDUCTIVE COMPOSITE*, Bul. AGIR, An XVI, nr.4/2011(ISSN-L 1224-7928, Online: ISSN 2247-3548), (CNCSIS, B+, BDI: INDEX COPERNICUS INTERNATIONAL),
5.	**Maria Ursan**, Romeo-Cristian Ciobanu, George-Andrei Ursan, *Simulation of Nanoconductive Composites for Electromagnetic Shields, Buletinul Institutului Politehnic din Iaşi*, (revista recunoscuta CNCSIS, categoria B+), Tomul LVI (LX) Fasc.3, Secţiunea ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ, 2010, pg 43-50, (Indexat BDI: Index Copernicus, getCITED, Ulrich's),
6.	George-Andrei Ursan, Emil Vremera, **Maria Ursan**, Olga Plopa, *Advanced Automotive Communication Networks, CAN Protocol Technology*, Bul. Inst. Pol. Iasi, (CNCSIS, B+), Tomul LV (LIX) Fasc.3, Sect Electrical Engineering, Power Engineering, Electronics, 2009, pg 43-55, (BDI: Index Copernicus, getCITED, Ulrich's)
7.	Cornelia Varga, Cristina Schreiner, **Maria Ursan**, George-Andrei Ursan, *Principles of Measurement with Hall Sensor and Sensors Reliability*, Buletinul Institutului Politehnic din Iaşi, (revistă recunoscută CNCSIS, categoria B+), tomul LV (LIX), Fasc. 4, Secţiunea ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ, 2009, pg. 61-72, (Indexat BDI: Index Copernicus, getCITED, Ulrich's),

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

	Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)
1	O. Plopa, W. Zodi and M. Ursan, "Study of the Influence of Nonlinear Core Parameters on the Precision of Instrument Transformers," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, **2025**, pp. 740-744, doi: 10.1109/SIELMEN67352.2025.11260656
2	G. A. Ursan, **M. Ursan**, O. Plopa and A. Chirica, "Use of Recycled Plastic for Educational Purposes," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, **2024**, pp. 312-315, (**doi: 10.1109/EPEi63510.2024.10758185./, BDI: IEEE Data Base, SCOPUS**
3	**U. Maria**, U. George-Andrei and P. Olga, *Practical Application for Monitoring the Behavior of a Series RLC Circuit*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), **2021**, pp. 065-068,(**BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600325**)
4	U. George-Andrei, P. Olga, O. Alin-Alexandru, I. Ursu and **U. Maria**, *Dielectric Properties of Malleable Composite Materials in Electromagnetic Field*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN)*,* **2021**, pp. 1-4, (**BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600422**)
5	U. George-Andrei, P. Olga and **U. Maria**, *PLCs' Inputs and Outputs Response Time Testing Application*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), **2021**, pp. 057-060, (**BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600400**)
6	U. George-Andrei, P. Olga and **U. Maria**, *Testing Stand Using Hardware Description Languages*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), **2021**, pp. 061-064, (**BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600334**)
7	U. George-Andrei, P. Olga, R. Mihaela Ursuleasa, **U. Maria** and T. Costel, *Obtaining of the Paints with Electromagnetic Shielding Properties*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), **2021**, pp. 367-370, (**BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600281**)
8	Ursan George-Andrei, Plopa Olga, **Ursan Maria,** *Simulation of Electrical Circuits Using Data Acquisition Boards for Online Education*, 11th International Conference and Exposition on Electrical and Power Engineering, October 22-23, **2020**, Iasi (**BDI: IEEE Data Base** DOI: 10.1109/EPE50722.2020.9305613)
9	Cosmin Iulian Contofan, George-Andrei Ursan, **Maria Ursan**, Olga Plopa, *Correlation between concentration and particles size in order to optimize the thermal heating process by exposure of composite materials to microwave radiation*, 11th International Conference and Exposition on Electrical and Power Engineering, October 22-23, **2020,** Iasi (**BDI: IEEE Data Base** DOI: 10.1109/EPE50722.2020.9305656)
10	George-Andrei URSAN, Olga PLOPA, **Maria URSAN**, *Use of Electric circuits' Simulation Methods, as New Methods of Learning/Experimentation in an Electrical Laboratory*, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON ELECTROMECHANICAL AND ENERGY SYSTEMS, SIELMEN **2019**, 10-11 Oct., Chișinău, (**BDI: IEEE Data Base, Scopus**, DOI: 10.1109/SIELMEN.2019.8905857, **Web of Science, WOS:000630287500066)**
11	Ursan George-Andrei, Plopa Olga, Contofan Cosmin, Aradoaei Mihaela, **Ursan Maria**, *Optical Evalution Systems for Anisotropic Composite Materials Quality Assessment*, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON ELECTROMECHANICAL AND ENERGY SYSTEMS, SIELMEN **2019**, 10-11 Oct., Chișinău, (**BDI: IEEE Data Base, Scopus, DOI: 10.1109/SIELMEN.2019.8905831, Web of Science, WOS:000630287500041**)
12	George-Andrei Ursan, **Maria Ursan**, Mihai Drobota, Angela Daniela La Rosa, *Principles on Development of Experimental Models of Nanostructured Adhesives*, 10th International Conference and Exposition on Electrical and Power Engineering, 18-19 October **2018**, Iasi, pp. 654-657, Romania IEEE Catalog Number CFP1847S-USB, ISBN 978-1-5386-5061-5, DOI: 10.1109/ICEPE.2018.8559933 (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000458752200127)**
13	George-Andrei Ursan, **Maria Ursan**, Iulian Cosmin Contofan, Angela Daniela La Rosa, *Correlations Between Simulation and Electromagnetic Properties Testing of Hot Melt Nanostructured Adhesives*, 10th International Conference and Exposition on Electrical and Power Engineering, 18-19 October **2018**, Iasi, pp. 650-653, Romania IEEE Catalog Number CFP1847S-USB, ISBN 978-1-5386-5061-5, DOI: 10.1109/ICEPE.2018.8559821 (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000458752200126)**

14	Angela Daniela La Rosa, George-Andrei Ursan, Mihaela Aradoaei, **Maria Ursan**, Cristina Schreiner, *Life Cycle Assessment of Microwave Activated HotMelt Adhesives*, 10th International Conference and Exposition on Electrical and Power Engineering, 18-19 October **2018**, Iasi, pp. 658-661., Romania IEEE Catalog Number CFP1847S-USB, ISBN 978-1-5386-5061-5, OI: 10.1109/ICEPE.2018.8559740 (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000458752200128)**
15	Angela Daniela La Rosa, George-Andrei Ursan, Mihaela Aradoaei, **Maria Ursan**, Cristina Schreiner, *Susceptor Assisted Microwave Processing of Polymers for Adhesive Production*, 10th International Conference and Exposition on Electrical and Power Engineering, 18-19 October **2018**, Iasi, pp. 662-665, Romania IEEE Catalog Number CFP1847S-USB, ISBN 978-1-5386-5061-5, DOI: 10.1109/ICEPE.2018.8559797 (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000458752200129)**
16	George-Andrei Ursan, Romeo Cristian Ciobanu, Costel Donose, **Maria Ursan**, *Modeling and Simulation of Electromagnetic Absorption Properties of the Different Nanostructured Composites*, 22nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, SUPPORTING WORLD DEVELOPMENT THROUGH ELECTRICAL&ELECTRONIC MEASUREMENTS, IASI, ROMANIA, September 14-15, **2017** (imeko.org, **BDI:Scopus**)
17	George-Andrei Ursan**; Maria Ursan**; Anca Pîntea; Răzvan Ioan Grăpina, *Fire behavior analysis for new retardant nanocomposite formulations with minimum risk to health and safety*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), 20-22 Oct. **2016**, Iasi, Romania, Page(s): 559 - 562, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781402, (**BDI: IEEE Data Base, Scopus, Web of Science**)
18	George-Andrei Ursan**; Maria Ursan**; Anca Pîntea; Răzvan Ioan Grăpina, *Analysis of new formulations for nano-filled concrete, bituminous coatings and insulation*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), 20-22 Oct. **2016**, Iasi, Romania, Page(s): 051 - 054, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781301, (**BDI: IEEE Data Base, Scopus, Web of Science**)
19	Tudor Alexandru Ilaş; Tudor Coteţ; George-Andrei Ursan**; Maria Ursan**, *Fluid model used for simulating streamer breakdown in SF6 and SF6-N2 mixtures*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), 20-22 Oct. **2016**, Iasi, Romania, Page(s): 555 - 558, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781300, (**BDI: IEEE Data Base, Scopus, Web of Science**)
20	Tudor Alexandru Ilaş; Vasile Dan Ani; George-Andrei Ursan**; Maria Ursan**, *Discharge simulation based on particle methods*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), 20-22 Oct. **2016**, Iasi, Romania, Page(s): 047 - 050, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781401, (**BDI: IEEE Data Base, Scopus, Web of Science**)
21	Plopa Olga, **Ursan Maria** ; Tabrea Adrian, *Panels and profiles for constructions based on bio-composites*, 2014 International Conference and Exposition on Electrical and Power Engineering 16-18 October **2014**, Iasi, Romania, Page(s): 873 - 876, ISBN 978-1-4799-5848-1, DOI: 10.1109/ICEPE.2014.6970036, (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000353565300162**)
22	Ursan George-Andrei, **Ursan Maria**, Tugui Costel, Bejenaru Cristian, *Testing of Physical, Mechanical and Chemical Properties of Flakes and Granules from Thermoplastic WEEE Selected by Components*, 2014 International Conference and Exposition on Electrical and Power Engineering 16-18 October **2014**, Iasi, Romania, Page(s):853 – 856, ISBN 978-1-4799-5848-1, DOI: 10.1109/ICEPE.2014.6970032, (**BDI: IEEE Data Base, Scopus, Web of Science**)
23	George-Andrei Ursan, Octavian Postolache, **Maria Ursan**, Emil Vremera, J. M. Dias Pereira, *Using the CAN Protocol for Climate Control System in Automotive Indoor Monitoring*, 3rd Symposium IMEKO TC 19 - Environmental Measurements, (ISBN 978-80-553-0424-3), 8-10 Sept. **2010**, Kosice, Slovacia, pg. 84;(**BDI:Scopus**)
24	**Maria Ursan**, George-Andrei Ursan, Vlad-Andrei Scarlatache, Romeo Cristian Ciobanu, *Non Destructive 3-D Investigation of Nanocomposites Materials*, 3rd Symposium IMEKO TC 19 - Environmental Measurements, 8-10 septembrie **2010**, Kosice, Slovacia, cu ISBN 978-80-553-0424-3, pg. 45, (**BDI:Scopus**)
	Vlad-Andrei Scarlatache, **Maria Ursan**, Romeo Cristian Ciobanu, *Dielectric Properties Characterization of Conductive Polymeric Materials at Temperature and Frequency Variation*, Optimization of Electrical and Electronic Equipment (OPTIM), 12th International Conference on, Universitatea Transilvania din Brasov, Facultatea de Inginerie Electrică şi Ştiinţa Calculatoarelor, Romania, 20-22 mai, ISSN 1842-0133, 978-1-4244-7019-8, pg. 208 – 213, DOI:10.1109/OPTIM.2010.551037 (**2010**). (**BDI: IEEE Data Base, Scopus, Web of Science, WOS:000291967300027)**

25	**Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date**
26	Cornelia Lorenz, **Maria Ursan**, George-Andrei Ursan, Tudor Ilas, *Using X-Ray Microtomography for electromagnetic shielding analysis of composite materials*, 9th International Conference and Exhibition on Electromechanical and Power Systems SIELMEN 2013, 16 October 2013, Iasi, Romania 17-18 October **2013** Chişinău, Rep. of Moldova, ISBN 978-606-13-1560-4,
27	Cornelia Lorenz, **Maria Ursan**, George-Andrei Ursan, Cotet Tudor, *Nondestructive testing based on Eddy current method for hybrid electromagnetic shielding systems*, 9th International Conference and Exhibition on Electromechanical and Power Systems SIELMEN 2013, 16 October 2013, Iasi, Romania 17-18 October **2013** Chişinău, Rep. of Moldova, ISBN 978-606-13-1560-4,
28	Cornelia Lorenz, **Maria Ursan**, George-Andrei Ursan, Luciana Atomei, *The influence of the dielectric properties of the core on the absorption characteristics of electromagnetic hexachiral honeycomb shielding structure*, 9th International Conference and Exhibition on Electromechanical and Power Systems SIELMEN 2013, 16 October **2013**, Iasi, Romania 17-18 October 2013 Chişinău, Rep. of Moldova, ISBN 978-606-13-1560-4,
29	George-Andrei Ursan, **Maria Ursan**, Andrei Pruteanu, Alexandru-Mihnea Spiridonica, *Virtual simulation of the automotive board*, EPE 2010 Proceeding of the 6-th International Conference on Electrical & Power Engineering, (ISBN vol. I: 978-606-13-0077-8) 28-30 Oct. **2010**, Iasi, Romania, pg. I-321 – I-324,
30	George-Andrei Ursan, **Maria Ursan**, Emil Vremera, Alexandru-Mihnea Spiridonica*, System for monitoring the temperature inside vehicle, based on CAN protocol*, EPE 2010 Proceeding of the 6-th International Conference on Electrical & Power Engineering, (ISBN vol. I: 978-606-13-0077-8), 28-30 Oct. **2010**, Iasi, Romania, pg. I-309 – I-312,
31	**Maria Ursan**, Andrei-Catalin Stan, George-Andrei Ursan, Alexandru-Mihnea Spiridonica, Astarastoae Daniela, *Labview application for wirelles modems communication and testing*, EPE 2010 Proceeding of the 6-th International Conference on Electrical & Power Engineering, 28-30 Octombrie, **2010**, Iaşi, Romania, cu ISBN general: 978-606-13-0079-2, ISBN vol. I: 978-606-13-0077-8, pg. I-325 – I-328,
32	**Maria Ursan**, George-Andrei Ursan, Vlad-Andrei Scarlatache, Razvan Rusei, *Practical method for detecting defects in conductive materials*, EPE 2010 Proceeding of the 6-th International Conference on Electrical & Power Engineering, 28-30 Octombrie, **2010,** Iaşi, Romania, cu ISBN general: 978-606-13-0079-2, ISBN vol. I: 978-606-13-0077-8,. pg I-363 – I-366,
33	Vlad-Andrei Scarlatache, Sorin Georgel Flutur, **Maria Ursan**, Marius Olariu şi Dan Ciurea, *An Overview of Standardization in the Field of Electromagnetic Compatibility for the Railway Industry,* EPE **2010** - 6TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND POWER ENGINEERING, 28-30 Octombrie 2010- Iaşi, Romania, ISBN general: 978-606-13-0079-2, ISBN vol. I: 978-606-13-0077-8, pg. I -303 – I-308, (2010).
34	Alexandru-Mihnea Spiridonică, Iulian Stoleriu, **Maria Ursan** şi Elges Astrid, *A Matlab Application Regarding a New Method for Estimating the Limits of Statistical Control Charts,* EPE 2010 - 6TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND POWER ENGINEERING, 28-30 Octombrie 2010 - Iaşi, Romania, cu ISBN general: 978-606-13-0079-2, ISBN vol. I: 978-606-13-0077-8, pg. I-342 – I-345, (**2010**).
35	George-Andrei Ursan, Alexandru Salceanu, Emil Vremera, **Maria Ursan**, *New Applications of Radar Sensors for Safe Driving*, 7TH International Conference on Electromechanical and Power Systems, (ISBN vol. 2: 978-606-520-623-6), 6-10 Oct. **2009**, Iasi, Romania, pg. 187-190,
36	**Maria Ursan**, Romeo-Cristian Ciobanu, George-Andrei Ursan, *Simulation of Nanoconductive Composites for Electromagnetic Shields*, 7TH International Conference on Electromechanical and Power Systems, (cu ISBN GENERAL: 978-606-520-618-2 şi cu ISBN vol. 1: 978-606-520-617-5), 6-10 Octombrie, Iaşi, România, **2009**, pag. 485-488,
37	**Maria Ursan**, Cornelia Varga, George-Andrei Ursan, Cristina Schreiner, *Measurements of Rotation Angles Using Hall Sensors Connected in Difference*, 7TH International Conference on Electromechanical and Power Systems, cu ISBN GENERAL: 978-606-520-618-2 şi cu ISBN vol. 1: 978-606-520-617-5), 6-10 Octombrie, **2009**, Iaşi, România, pag. 250-253,
38	George-Andrei Ursan, Emil Vremeră**, Maria Ursan**, Olga Plopa, *Hybrid Electrical Vehicle, Control System for Parallel Design*, 3rd International Symposium on Electrical Engineering and Energy Converters, (cu ISSN 2066-835X), 24-25 Septembrie, **2009**, 151 Suceava, România,

J. Invenţii.

K. Contracte de cercetare.
Director de grant/contract
Membru în colectiv

L. Premii, distincţii.

M. Alte realizări semnificative.

Data, Semnătură,