UNIVERSITATEA TEHNICĂ “GHEORGHE ASACHI” DIN IAŞI

FACULTATEA: *INGINERIE CHIMICĂ ŞI PROTECŢIA MEDIULUI „CRISTOFOR SIMIONESCU*”

Domeniul de doctorat: Inginerie Chimică

lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic
Lista de lucrări în domeniul INGINERIE CHIMICA

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A. Teza de doctorat.

Titlul tezei de doctorat: Contribuţii la modelarea proceselor dizolvare – reacţie gaz-lichid, susţinută public 2.12.1999

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10. Studiul absorbției reactive a dioxidului de carbon în soluții de carbonat de potasiu promotate cu noi amine (CAPRO-AMINA) project number GnaC2018_10/2019
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15. Grant Intern “Publicatii” GI/P14/2021 iulie-decembrie 2021. Suma 45.000 lei. Cretescu, Ciobanu, Teodosiu
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18. Contract cercetare – dezvoltare – inovare Nr. TUIASI : 36682 / 11.11.2021, Tema: Cercetarea și dezvoltarea unor procedee inovative de valorificare a resurselor materiale și a fluxurilor industriale reziduale pentru eficientizarea producției verzi la Chimcomplex SA Borzești, Finanţator: SC CHIMCOMPLEX SA Borzești, Buget etapa 1 / 20.000 lei (termen nov. 2023) - 4 membri + director

19. Contract 7335/14.10.2022_Servicii 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
20. GNaC 2023_274/2024_Contract de grant intern ARUT pentru finantare proiecte de cercetare_ Saramura ultrapura pentru performanta electrolizei alcaline cu obtinerea hidrogenului verde, Valoare grant: 49.771 lei (echivalent 10.000 Euro), Durata: 14 luni (martie 2024 - aprilie 2025)
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23. Instalație inovatoare de obținere a hidrogenului verde prin gazeificarea biomasei, cu sistem de filtrare avansat ”GREEN-GAS-H2” Tip apel: Proiecte de CDI și investiții în IMM - PR/NE/2024/P1/RSO1.1_RSO1.3/1 (cod apel: PRNE/515/PRNE_P1/OP1) Nr. 739 / 25.07.2025

L. Premii, distincţii.

1. Gold distinction at EUROINVENT 2015, paper H-CARE project promoting the food supplements in Health Care sector, autori: Ciobanu G., Barna S., Luca C., Harja M., Mocanu A.M.
2. Medalia de aur – The top 1% of reviewers in each field who performed the most verified pre-publication peer reviews on Publons for Publons Peer Review Awards 2017, https://publons.com/awards/field/?name=Harja%20Maria&asjc=108
3. Medalia Targului INVENT-INVEST 2017, 12-15 nov. 2017, Ungheni, R. Moldova, Ciobanu G., Harja M., Firat S., Grudeva P., Lazarov A., Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities
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6. Medalie argint - Synthesis, characterization and photocatalytic activity of new oxidic nanostructures, Amalia Maria SESCU, Lidia Favier, Doina Lutic, Gabriela Ciobanu, Maria Harja, EUROINVENT, 17-19 May 2018, www.euroinvent.org
7. Medalie bronz - Contributions to process modeling in solid fluid systems, Loredana LITU, Gabriela CIOBANU, Olga KOTOVA, Maria HARJA, , EUROINVENT, 17-19 May 2018, www.euroinvent.org
8. Medalie argint - Modeling of CO2 absorption process in activated solutions, Elisabeta HULTUANA, Gabriela CIOBANU, Igor CRETESCU, Liliana LAZAR, Ramona Elena TATARU-FARMUS, Maria HARJA*, EUROINVENT, 17-19 May 2018,
9. Medalie aur - “Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities - MyPeerMentor”, Gabriela CIOBANU, Maria HARJA, Florin Alexandru LUCA, Seyhan FIRAT, Bülent ELBASAN, Alper GÜZEL,

Adem TEKEREK, Petya GRUDEVA, EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018,

10. Diploma de excelenta - New smart materials with application in medicine and environmental protection, Olga KOTOVA, Maria HARJA*, Maarten A.T.M. BROEKMANS, Consuelo GÓMEZ de CASTRO, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018, www.euroinvent.org
11. Medalie de aur - Ingineria produselor fertilizante anorganice – Îndrumar de laborator, Ramona-Elena Tataru Fărmuș, Maria Harja, Liliana Lazăr, Nicolae Apostolescu, Ed. Ecozone 978-606-8625-13-3, 2017, 263pg
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13. Medalie de aur Inventica 29-31 Iulie, 2020_IZOLETA CU SISTEM DE PURIFICARE A AERULUI / BED ISOLATION WITH AIR PURIFICATION SYSTEM, Igor CRETESCU, Arghirescu Marius, Gabriel Petre Gorecki, Soreanu Gabriela, Lazar Liliana, Maria Harja,
14. Medalie de argint Euroinvent 2025, High Chemical Resistance in Environmentally Friendly Materials, Mihaela Caftanachi, Mihai Vrabie, Maria Harja*
15. Diploma with honor „Creative regions and innovative education – Hubs for the future", INVENT-INVEST 2025″ Innovation Workshop and Exhibition, an international event

M. Alte realizări semnificative

1. 2024_PREMIILE PENTRU EXCELENȚĂ ÎN CERCETAREA ȘTIINȚIFICĂ - Premiul pentru atragerea celor mai multe fonduri private pentru cercetarea științifică, Prof.habil.dr.ing. Maria HARJA, Facultatea de Inginerie Chimică și Protecția Mediului Cristofor Simionescu; suma atrasă: 204377.85 lei

World's Top 2% Scientists in 2024 si 2025 https://topresearcherslist.com/Home/Search?AuthFull=Harja%2C+Maria
Engineering & Technology Top 100 Scientists in Romania 2026
https://www.adscientificindex.com/top-100-scientist/?s=50&tit=Engineering+%26+Technology&country_code=ro
top 100 cercetatori
https://adscientificindex.com/top-100-scientist/?type=h-index&ft_university=2868&
World 1 Scientists H-Index Rankings 2026: https://adscientificindex.com/subject-rankings/?ft_search=Maria+Harja&ft_search_type=name&subject_title_id=0&subject_sort_type=h-index
Membru in Comitetul sectiunii de Chimie Anorganica si Bioanorganica, https://schr.ro/organizare/sectii/chimie-anorganica/

Membru în colective de redacţie ale revistelor - Editorial board

1. Smart Materials in Environmental Science, https://www.mdpi.com/journal/materials/special_issues/smart_materials_environmental_science
2. Synthesis and Applications of Nanoparticles, https://www.mdpi.com/journal/materials/special_issues/Syn_Appl_Nanoparticles
3. Efficiency Evaluation of Water Treatment, https://www.mdpi.com/journal/water/special_issues/efficiency_evaluation_water_treatment

4. Study on Advanced Nanomaterials Applied in Green Technologies, Guest Editor: Prof. Dr. Maria Harja, https://www.mdpi.com/journal/materials/special_issues/FEWV585VNY
5. Topic Editor: Circular Materials Engineering: Waste Valorization and Sustainable Applications - https://www.mdpi.com/topics/65T45CQ575
6. Materials - Editorial Board for section 'Materials Simulation and Design'
7. https://www.mdpi.com/journal/materials/sectioneditors/Materials_Simulation_Design
8. International Journal of Molecular Science – guest editor - Bio-Based Aluminosilicates: From Waste to Precursor in Medical & Biotech Applications, https://www.mdpi.com/journal/ijms/special_issues/Bio_Based_Aluminosilicates
9. Smart Materials in Environmental Science (Volume II) , https://www.mdpi.com/journal/materials/special_issues/DJ7E756A0S
10. American Journal of Chemical Engineering (AJCHE), http://www.sciencepublishinggroup.com/j/ajche, http://www.ajche.org/editorialboard
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23. Revista de Chimie, https://www.revistadechimie.ro/RCBoard.asp
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31. Review Editor in Frontiers in Materials - Structural Materials, https://loop.frontiersin.org/people/1042066/overview
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39. Journal of Chemical Technology – Editorial board - https://www.jchemtech.com/journal/editorial.board
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MEMBRU ASOCIATII:

1. Societatea de Chimie din România,
2. Societatea de Inginerie Chimică
3. Asian Chemical Society (AChemS)
4. Science publishing group - http://membership.sciencepublishinggroup.com/mariaharja
5. European Coatings - European network for the entire paint industry
6. The Water Network | by AquaSPE
7. American Society of Civil Engineers (ASCE)
8. Civil/structural engineering network
9. European Coatings Suppliers Hub
10. Silvaco Academy b group – octombrie 2020
11. International Council on Materials Education, https://icme.unt.edu/members
12. Member Scientific China - https://scientifichina.substack.com/
13. American Romanian Academy of Arts and Sciences (2021)
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15. https://www.americanromanianacademy.org/full-members
16. International Society for Development and Sustainability (ISDS), https://www.isdsnet.com/index.html pdf
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18. Springer Nature - Research Communities, https://communities.springernature.com/
19. Scholar hub - https://www.scholarhub.net/scholar?page=6, Association of Learned and Professional Society Publishers din 2024

Comitet organizare conferinte

Fourth International Conference on Energy Engineering and Environmental Protection (EEEP2019) will be held on November 19-21, 2019 in Xiamen, China, http://www.iceeep.org/OC.aspx

International Advisory Board - ICON 2019 – International Conference of Recent Trends in Construction Materials and Structures 19-20 Sept 2019 https://vit.ac.in/icon/members.html

The Second International Workshop on Environment and Geoscience (IWEG 2019 - http://www.iwegconf.org/RL.aspx

2021 Int. Conference on Materials: Advanced and Emerging Materials, 22–24 Nov.2021: https://sciforum.net/event/2021icm-cn?section=#ac
3RD International Conference on Process Equipment, Mechatronics Engineering and Material Science_ 7-8 September 2024, in Wuhan, China_ http://pemeconf.com/Members.html
Scientific Committee, Materials, Structures, Technologies and Management in Civil and Environmental Engineering, Poland 2024, https://wb.pcz.pl/nauka/mstm/scientific-committee
Scientific Committee, Annual International Congress on Chemistry, February 20-21, 2025_ Oxford, United Kingdom / Online, www.chemrtc.com, https://chemrtc.com/scientific-committee-member/?pdb=2194
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Scientific Committee, Materials, Structures, Technologies and Management in Civil and Environmental Engineering 2025, Poland: https://wb.pcz.pl/nauka/mstm/scientific-committee
Organizing Committee of the 3rd Global Summit on Recycling and Waste Management, which will take place on June 08–09, 2026, in Rome, Italy. More information: Recycling 2026, https://www.timesscientificgroup.com/events/recycling-waste-management-2026
Organizing Committee of the Global Congress on Material Science and Engineering (MSECON2026), which will be held in Dubai, UAE during October 19-21, 2026, https://materialsscience.synergiasummits.com/committee,
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Reviewer pentru 56 jurnale, 1002 review-uri facute
Jury – INVENT INVEST 2018
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Data,

03.03.2026



Lista de lucrări în domeniul de doctorat Inginerie Chimică

Numele şi prenumele: MĂMĂLIGĂ IOAN

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

"Transfer de masă în filme lichide subţiri ",159 pg., 1996.

Institutie: Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Chimie Industrială, 19.12.1996. Coordonator ştiinţific: prof.dr.doc.ing. Radu Z. Tudose - membru corespondent al Academiei Române.

Titlul: DOCTOR INGINER, diploma seria P nr. 0001298, Ordinul ministrului învăţământului nr. 3991 / 2.06.1997.

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

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

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2. Mămăligă, I., Petrescu, S., 2007, Operaţii de transfer de masă şi utilaje specifice, Editura Cermi, Iaşi, ISBN 978-973-667-312-2. (405 pag., 35 rânduri/pag
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55. Ioan Barabulica, Marius Sebastian Secula, Eugenia Teodora Iacob-Tudose, Ioan Mamaliga Experimental Study on the Influence of Magnesium on the Separation of Carbon Dioxide from Gas Mixtures with Nitrogen by Combustion Processes, , Processes, 13, 7, 2054, 2025.

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Colectiv: Mamaliga Ioan, Gabriela Ciobanu, Gabriela Apostolescu, Nicolae Apostolescu

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9. Contract de cercetare nr. 5471P/05.12.2005, Optimizarea separarii compusilor organici din clasa cicloalcanilor C15-C16, Beneficiar:S.C. Stemar Vaslui.

10. Contract cercetare Nr. 33/2004, Studiu privind alegerea si realizarea unui sistem de filtrare pentru gazele exhaustate din atelierul de zincare la cald, Beneficiar: Santierul Naval Constanta; Director: Prof. Macoveanu M., Membri : Petrescu S., Mamaliga I.,

11. Contract de cercetare 651/1998. Cercetări privind comportarea reologică a suspensiilor fibroase convenţionale şi descernelizate şi determinarea caracteristicilor fizico - mecanice ale hârtiei. Beneficiar S.C. Ceprohart Suceava. Director: Prof. E. Poppel. Membri: Z. Lado, Malutan C., Obrocea I., Mamaliga I.

12. Contract de cercetare 5002/1996 Tema 27, Cod CNCSU 592, Studiul proceselor de transfer la curgerea lichidelor in filme subtiri. Beneficiar Ministerul Invatamantului, Director. Prof. Radu Z. Tudose, membru: Mamaliga I.

13. Contract de cercetare 4002/1995 poz. B.29, grant 669, Studiul proceselor de transfer la curgerea lichidelor in filme subtiri. Beneficiar Ministerul Invatamantului, Director. Prof. Radu Z. Tudose, membru: Mamaliga I.

14. Contract de cercetare 3002/1994 poz. C.68, Studii in transferul de masa gaz-lichid. Beneficiar Ministerul Invatamantului, Director. Prof. Radu Z. Tudose, membru: Mamaliga I.

15. Studiul posibilităților de îndepărtare prin distilare a unor aldehide din amestecul de recuperare a glicolului. Contract nr. 5630/1990. Beneficiar: CFS Iasi.
Director. Prof. Radu Z. Tudose, Membri: Petrescu S., Carstea S., Vitan F., Bacaoanu A., Mamaliga I.

L. Premii, distincţii.

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...

Referent științific pentru articole publicate în reviste:
Journal of Membrane Science, Polymer, Chemical Engineering and Processing, Environmental Engineering and Management Journal, Cellulose Chemistry and Technology, Heat and Mass Transfer, International Journal of Heat and Mass Transfer, Chemical Engineering Science, Journalof Hazardous Materials, Materials, Processes, Molecules, Polymer, Membranes, etc.
Expert evaluator CNCSIS (peste 10 propuneri de proiecte evaluate)

Data, 9.03.2026

Semnătura:
Profesor univ. dr. ing. **Ioan Mămăligă**

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **LISA CĂTĂLIN**
Conferențiar

A. Teza de doctorat.

Institutie: Universitatea Tehnică „Gheorghe Asachi" Iaşi, Facultatea de Inginerie Chimică şi Protecţia mediului
Perioada: 2004-2009
Coordonator: prof.dr.ing. Victor Bulacovschi
Titlul tezei: Cătălin Lisa, *„Aplicaţii ale inteligenţei artificiale în ingineria reacţiilor de polimerizare*", 236 pg.+134 pg. anexe, anul 2009.
Titlul: DOCTOR in domeniul Inginerie Chimică, diploma seria G nr. 0004656, Ordin MEC 3492/23.03.2010

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. Catalin Lisa, Fenomene de transfer, operații unitare și echipamente. Transfer de impuls, 2024, Editura Performantica, 122 pag., ISBN-978-630-328-112-4
2. Silvia Curtenu, Catalin Lisa, editura CERMI, Iasi, "Mathcad sub Windows", 1998, ISBN: 973-9378-38-2, 185 pag.

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

1. R.Z. Tudose, S. Petrescu, I. Ibănescu, A. Stancu, A. Băcăoanu, A. Moise, L.D. Horoba, I. Mămăligă, Cătălin Lisa „Fenomene de transfer şi operaţii unitare. Îndrumar pentru lucrări de laborator", 2001, Editura Universităţii Tehnice Gh.Asachi Iaşi, 306 pag.
2. Horoba DL, Mamaliga I, Iacob-Tudose ET, Moise AI, Cătălin Lisa, Nechita MT, Fenomene de transfer si operatii unitare, Indrumar de proiectare, Editura Universitatii Tehnice Gheorghe Asachi din Iasi, 2023, ISBN 978-973-621-532-2, 300 pag.

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

1. Catalin Lisa, Fenomene de transfer operații unitare și echipamente, 2, 2019/ suport de prezentare ppt, 129 pag.
2. Catalin Lisa, Suport electronic a disciplinei Operatii hidrodinamice, 100 pagini, 2024
3. Catalin Lisa Suport electronic pentru cursul de Transpunerea la scară a proceselor din industria chimică 28 pagini, 2020.
4. Catalin Lisa, Suport electronic pentru proiectul Modelarea si proiectarea reactoarelor chimice, 38 pagini, 2020
5. Catalin Lisa, Suport electronic pentru proiectul Fenomene de transfer, operații unitare și echipamente - proiect, 162 pagini, 2020
6. Catalin Lisa, Suport electronic pentru aplicatiile la disciplina transpunere la scara 32 pagini
7. Catalin Lisa, Suport electronic pentru cursul de Reologie, 104 pagini 2021

8. Catalin Lisa, Prezentare Power Point pentru cursul de Reologie, 171 pagini 2021

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

- Articole publicate în reviste cotate ISI

1. Nistor, L; **Lisa, C**; Michinobu, T; Lisa, G, Thermal degradation mechanism and isothermal sublimation kinetics of DDMEBT: Structure-property correlations for process optimization, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2025, 39, 7261-7276, http://doi.org/10.1016/j.jmrt.2025.11.046, Q1

2. Anton, N; **Lisa, C**; Doroftei, B; Pîrvulescu, RA; Barac, RI; Lungu, II; Bogdanici, CM, The Role of Artificial Intelligence in Predicting the Progression of Intraocular Hypertension to Glaucoma, LIFE-BASEL, 2026, 6,5, 865, https://doi.org/10.3390/life15060865, Q1

3.Târcoveanu F., Leon Florin, **Lisa C.,** Curteanu S., Feraru A., Ali K., Anton N., The use of artificial neural networks in studying the progression of glaucoma, Scientific Reports (2024) 14:19597, https://doi.org/10.1038/s41598-024-70748-1, **Q1**.

4.Anghel, I; **Lisa, C.**; Curteanu, S.; Preda, DM; Sofran, IE; Baia, M; Stroe, M; Paraschiv, M; Baibarac, M; Danciu, V; Cotet, LC; Baia, L, The influence of the functionalization of polystyrene and graphene oxide composites on the flammability characteristics: modeling with artificial intelligence tools, Journal of Thermal analysis and calorimetry, 2024, 149(7), 2805-2824. https://doi.org/ 10.1007/s10973-023-12869-9 (**autor principal – autor corespondent**) **Q1**(la momentul publicarii)

5.Bîrgauanu, I, **Lisa, C**; Leon, F; Curteanu, S; Lisa, G, Modeling of excess molar volume for binary and ternary mixtures of benzyl alcohol, n-hexanol and water, Environmental Engineering and Management Journal, (12), 22, 2023, 2157-2164. **Q4**

6.Anton, N.; Doroftei, B.; Curteanu, S.; **Lisa C.**; Ilie, O.-D.; Târcoveanu, F.; Bogdanici, C.M. Comprehensive Review on the Use of Artificial Intelligence in Ophthalmology and Future Research Directions. Diagnostics 2023, 13, 100. https://doi.org/10.3390/ diagnostics13010100. **Q1**

7.Cleminte, C.-I.; Ionita, D.; **Lisa, C.;** Cristea, M.; Mamaliga, I.; Lisa, G. Evaluation of the Sublimation Process of Some Purine Derivatives: Sublimation Rate, Activation Energy, Mass Transfer Coefficients and Phenomenological Models. Materials 2022, 15, 7376. https://doi.org/10.3390/ ma1520737. **Q1**

8.Lisa, G.; Anghel, I.; Preda, D.-M.; **Lisa, C.**; Cretescu, I.; Buciscanu, I.I.; Diaconu, M.; Soreanu, G. Moving towards Valorization of Biowastes Issued from Biotrickling Filtration of Contaminated Gaseous Streams: A Thermochemical Analysis-Based Perspective. Sustainability 2022, 14, 10737. https://doi.org/10.3390/ su141710737 **Q2**

9.Bîrgauanu, I.; Danu, M.; **Lisa, C.**; Leon, F.; Curteanu, S.; Ibanescu, C.; Lisa, G. Viscosity Deviation Modeling for Binary and Ternary Mixtures of Benzyl Alcohol-N-Hexanol-Water. Materials 2022, 15, 5699. https://doi.org/10.3390/ma15165699 (**autor principal – contributie egala cu primul autor**). **Q1**

10.Anton, N.; **Lisa, C.**; Doroftei, B.; Curteanu, S.; Bogdanici, C.M.; Chiselita, D.; Branisteanu, D.C.; Nechita-Dumitriu, I.; Ilie, O.-D.; Ciuntu, R.E. Use of Artificial Neural Networks to Predict the Progression of Glaucoma in Patients with Sleep Apnea. Appl. Sci. 2022, 12, 6061. https://doi.org/10.3390/ app12126061(**autor principal - autor corespondent**). **Q1**

11.Anton, C.; Leon, F.; Gavrilescu, M.; Dragoi, E.-N.; Floria, S.-A.; Curteanu, S.; **Lisa, C**. Obtaining Bricks Using Silicon-Based Materials: Experiments, Modeling and Optimization with Artificial Intelligence Tools. Mathematics 2022, 10, 1891. https://doi.org/10.3390/ math10111891 (**autor principal –autor corespondent**). **Q1**

12.Bejenari, V., **Lisa, C.**, Cernătescu, C., Mămăligă, I., Lisa, G. Isothermal Drying Kinetic Study of Spent Coffee Grounds Using Thermogravimetric Analysis, (2022) International Journal of Chemical Engineering, 2022, art. no. 2312147. **Q3**
http://www.hindawi.com/journals/ijce/doi: 10.1155/2022/2312147(**autor principal – autor corespondent**).

13. Anton, C.; Curteanu, S.; **Lisa, C.**; Leon, F. Machine Learning Methods Applied for Modeling the Process of Obtaining Bricks Using Silicon-Based Materials. Materials 2021, 14, 7232. https://doi.org/ 10.3390/ma14237232. (**autor principal – autor corespondent**). **Q1**

14.Anton, N.; Dragoi, E.N.; Tarcoveanu, F.; Ciuntu, R.E.; **Lisa, C.**; Curteanu, S.; Doroftei, B.; Ciuntu, B.M.; Chiselita, D.; Bogdanici, C.M. Assessing Changes in Diabetic Retinopathy Caused by Diabetes Mellitus and Glaucoma Using Support Vector Machines in Combination with Differential Evolution Algorithm. Appl. Sci. 2021, 11, 3944. https://doi.org/10.3390/ app11093944 (**autor principal – autor corespondent**).**Q1**

15.A Mihaila, **C Lisa**, AM Ipate, MF Zaltariov, D Rusu, I Mămăligă, G Lisa, Determination of the effective diffusion coefficient during the drying of paint and varnish films applied on fir wood, Progress in Organic Coatings 137, 105344, **2019** (**autor principal – autor corespondent**) **Q1**

16. A Mihăilă, **C Lisa**, I Mămăligă, G Lisa, Kinetics of drying of certain lacquers and paints in isothermal conditions using a thermogravimetric analyser, Journal of Thermal Analysis and Calorimetry **2019,** 138 (3), 2315-2322 **Q1** (la momentul publicarii)

17.Anton Apreutesei, N, Tircoveanu, F., Cantemir, A. Bogdanici, C., **Lisa, C.**, Curteanu, S.,Chiseliţă, D, Predictions of ocular changes caused by diabetes in glaucoma patients, Computer Methods and Programs in Biomedicine, Volume 154, February **2018**, Pages 183-190 (**autor principal– autor corespondent**). **Q1**

18.**Lisa, C.**, Hamciuc, C., Hamciuc, Lisa, G, Multiple linear regression (MLR) models used to predict the thermal stability of some polyimides, Environmental Engineering and Management Journal, Volume 17, Issue 4, April **2018**, Pages 821-826 (**autor principal**). **Q4**

19.**C Lisa** , Comments concerning" The density, the refractive index and the adjustment of the excess thermodynamic properties by means of the multiple linear regression method for the ternary system ethylbenzene-octane-propylbenzene", Thermochimica Acta, 635, 39-40, **2016**. (**autor principal**). **Q2**

20.**C Lisa**, M Ungureanu, PC Cosmaţchi, G Bolat The density, the refractive index and the adjustment of the excess thermodynamic properties by means of the multiple linear regression method for the ternary system ethylbenzene–octane–propylbenzene, Thermochimica Acta, 617, 76-82, **2015**. (**autor principal**) **Q2**

21. Cristina Butnariu, **Catalin Lisa**, Florin Leon, Silvia Curteanu, Prediction of liquid-crystalline property using support vector machine classification, Journal of Chemometrics , **2013**, 27 (7-8), 179–188. **Q1**

22.Dragoi, Elena-Niculina; Curteanu, Silvia; **Lisa, Catalin**, „*A neuro-evolutive technique applied for predicting the liquid crystalline property of some organic compounds***",** Engineering optimization, **2012,** 44(10)**,** pp. 1261-1277**. Q2**

23.Gabriela Lisa, Wilson, D.A., Curteanu, S., **Lisa, Catalin** , Piuleac, C.-G., Bulacovschi, V., „*Ferrocene derivatives thermostability prediction using neural networks and genetic algorithms*", Thermochimica Acta **2011,** 521(1-2), pp. 26-36 **.** (**autor principal - autor corespondent**) **Q2**

24.Leon, Florin; **Lisa, Catalin**; Curteanu, Silvia „*Prediction of the Liquid-Crystalline Property Using Different Classification Methods*" Molecular Crystals and Liquid Crystals, **2010**, 518, pp. 129-148. **Q3**

25.G. Lisa, Silvia Curteanu, **Cătălin Lisa**, „Artificial neural network for prediction of excess refractive indices of some binary mixtures", Environmental Engineering and Management Journal , **2010**, 9(4), 483-487. **Q4**

26.Lisa, G.; Wilson, DA; Scutaru, D; Olaru, F; Botnaru, V; **Lisa, C,** Thermal degradation in non-isothermal conditions of some ferrocene derivatives, Scientific study and research-chemistry and chemical engineering biotechnology food industry, 2010, 11,3, 313-322, **Q4**

27.**Cătălin Lisa,** G. Lisa, S. Curteanu, „*Neural networks used for the prediction of the structure-thermal stability relation*", Revue Roumaine de Chimie, **2009**, 54(11-12), 1133-1142. . **(autor principal**). **Q4**

28.Lisa, G; **Lisa, C**; Curteanu, S, Modular neural network modeling for refractive indices of some binary systems, Scientific study and research-chemistry and chemical engineering biotechnology food industry, 2009, 10,3, 227-234, **Q4**

29.G.Lisa, S. Curteanu, **Cătălin Lisa,** *„Prediction of excess thermodynamic properties from experimental refractive index of binary mixtures 2. Artificial neural network modelling*", Revue Roumaine de Chimie, **2008**, 53(9), 859-867. **Q4**

30.G. Lisa, C. Huhurez, R.M. Matran, **Cătălin Lisa, „***Refractive indices of the binary systems iso-propanol - Water and iso-propanol – Toluene",* Environmental Engineering and Management Journal, **2008**, 7(3) 309-312. **Q4**

31.**Cătălin Lisa,** S. Curteanu, V. Bulacovschi, D. Apreutesei, „Artificial intelligence methods applied to prediction of the liquid crystalline behavior of some ferrocene derivatives", Revue Roumaine de Chimie, **2008**, 53(4), 283-290. (**autor principal**). **Q4**

32.G.Lisa, **Cătălin Lisa**, "*Prediction of excess thermodynamic properties from experimental refractive index of binary mixtures 1. Water – propionic acid mixtures at 290.15, 300.15 and 310.15 k*", Revue Roumaine de Chimie, **2007**, 52(7), 647-653. **Q4**

33.F. Leon, S. Curteanu, **Lisa, Catalin**, N. Hurduc „*Machine learning methods used to predict the liquid crystalline behavior of some*" Molecular Crystals and Liquid Crystals, **2007**, 469, pp. 1-22. **Q3**

34.**Lisa, Catalin**, S. Curteanu, "Neural network based predictions for the liquid crystal properties of organic compounds" 17th European Symposium on Computer Aided Process Engineering – ESCAPE 17, Bucuresti, 27-30 may 2007, ISI Proceedings Paper, **2007**, **Book Series:** Computer-Aided Chemical Engineering, 24, 39-44. . (**autor principal)**

35.**Lisa, C**; Bulacovschi, V., Prediction of the liquid crystalline behavior for some bis phenil aromatic derivatives with artificial neural networks, Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry, 2007, 8(2), 103-110, **(autor principal) Q4**

36.G. Lisa, **Cătălin Lisa**, D. Apreutesei, I. Barabulica, D. Galea "*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*", Revue Roumaine de Chimie, **2004**, 49(11), pp. 911-915 **Q4**

37.S. Curteanu, **Cătălin Lisa,** "*Modeling of Viscosity Variation in Free Radical Polymerization of Methyl Methacrylate*", Revue Roumaine de Chimie, **2003,** 48(8), pp. 651-659. **Q4**

38.S. Petrescu, L. Horoba, **Cătălin Lisa,** "*Local heat transfer coefficient at spherical particle melting*", Revue Roumaine de Chimie, **2003**, 48(3), pp. 237-242. **Q4**

39.S. Petrescu, E.Merica, I.Mamaliga, **Cătălin Lisa,** "*Fluid-solid heat transfer with phase change. I.- Overall Heat transfer coefficient for melting with warm gases*", Revue Roumaine de Chimie, **2000**, 45(12), pp. 1097-1103 **Q4**

40.S. Curteanu, V. Bulacovschi, **Lisa, Catalin,** "*Algorithms for Using the Models of Gel and Glass Effects in Methyl Methacrylate Polymerization",* Polymer-Plastics Techology and Engineering*,* **1999**, 38(5), pp.1121-1136 **Q2**

41.S. Curteanu, V. Bulacovschi, **Lisa, Catalin,** "*Free Radical Polymerizati, on of Methyl Metacrylate. Modeling and Simulation by Moment Generating Function* "Iranian Polymer Journal*,* **1998**, 7(4), pp. 57-63 **Q2**

42.S. Petrescu, J.Petraru , **Lisa, Catalin,** "*Mass transfer at solid dissolution*", Chem. Eng. J., **1997**,66, pp. 57-63 **Q1**

43.C.Fetecau, S. Petrescu, **Lisa, Catalin,** "*Mass Transfer Accompanied by Phase Transformation in Solid - Liquid Systems. Part. III. Dissolution of Solids* ", Hungarian Journal of Industrial Chemistry, **1996**, 24, pp. 41-44 **Q4**

44.S. Petrescu, M. Munteanu, **Cătălin Lisa,** "*Studiul cristalizării multiple în echicurent însoţită de reacţie chimică de dublu schimb* ", Revista de Chimie*,* **1996**,47(11), pp. 1055-1063. **Q3**

45.S. Petrescu, C.Fetecau, **Lisa, Catalin** and I.Cretescu, "*Mass Transfer Accompanied by Phase Transformation in Solid - Liquid Systems. Part. I. Dissolution of Solids*", Hungarian Journal of Industrial Chemistry*,* **1993**, 21, pp.195-199 **Q4**

- Articole publicate în volume indexate ISI Proceedings

- Articole indexate în baze de date internaţionale

1. **Lisa C**, Curteanu S, Hurduc N, Hurduc N, Estimation of thermal stability of some copolyethers liquid crystals using artificial neural networks, Bulletin of Romanian Chemical Engineering Society, 10(1), 2023, 67

2.A. Mihaila, **C. Lisa**, I. Mamaliga, G. 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, 2021, 2, 67(71), 63

3. 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.

4.**Catalin Lisa**, MLR models used to predict excess thermodynamic properties, Bulletin of Romanian Chemical Engineering Society, vol 4, Nr 2, 1-9, 2017

5. G. Lisa**,** D. Apreutesei**, Cătălin Lisa,** Surface tension and excess thermodynamic properties of binary mixtures isopropanol – water and n-butanol – water –- Buletinul Institutului Politehnic din Iasi, tomul LIV(LVIII), **2008**, fasc. 2, 49-54

6. Cătălin Lisa, S. Curteanu, G. Lisa and D. Apreutesei "*Neural networks used to predict the relationship between liquid crystalline behavior and chemical structures*", Bulletin of the Transilvania University of Brasov, 22-24 february, Brasov, **2007**, pp.521-526, ISSN 1223-9631

7. G.Lisa, Daniela Apreutesei, **Cătălin Lisa**, *Densities, viscosities, refractive indices and excess thermodynamic properties of binary mixtures propionic acid - toluene*", Buletinul Institutului Politehnic din Iasi, **2006**, tomul XXI, (3-4), pp.12-20

8. Cătălin Lisa, G.Lisa**,** „*Refractive indices and molar volumes of binary mixtures n-propanol – water and n-propanol – toluene*", Buletinul Institutului Politehnic din Iasi, **2005**, tomul LI(LV), (3-4), pp.7-13

9. G.Lisa, M.Irimia, D.Apreutesei, **Cătălin Lisa**, „*Study of the intrinsic properties of viscous flow in the n-propanol-toluene system*", Annals of West University of Timisoara, Series Chemistry, **2003**,12 (3), pp. 989-996

10. S. Curteanu**,** V. Bulacovschi, **Cătălin Lisa,** "*Gel and Glass Effects in Free Radical Polymerization of Methyl Methacrylate. Comparison between Models*", Buletinul Institutului Politehnic Iaşi*,* **1998**, Tomul XLIV (XLVIII), Fasc. 3-4, Secţia II, Chimie şi Inginerie, pp. 95-106.

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.

J. Invenţii.

Brevet de invenţie acordat în ţară

B1 **Lisa Catalin**, Cap de extrudere suflare Brevet nr. 103158 Hot. nr. 3026/ 8.01.92

B2 **Lisa Catalin**, Complexarea celulozei microcristaline monochimic, Brevet nr. 138899/89

B3 Tudose E.T. Tudose R.Z., **Lisa C.**, Delibaş C., Agitator pentru amestecarea intensivă a mediilor lichide Data publicării 1995/2/24, Oficiul de Stat pentru Invenții și Mărci, RO, Numărul brevetului, Dosar OSIM nr. 95-00413

B4 Silvia Curteanu, Florin Leon, Marius Gavrilescu, Costel Anton, **Catalin Lisa**, Sabina- Adriana Floria, Modelarea procesului de fabricație a cărămizilor folosind ansambluri de metode evolutive de inspirație biologică și sociale, ORDA, 44 pagini, RGII/INT/4805/23.11.2023- RGII/IES /4805/29.11.2023

B5 Silvia Curteanu, Florin Leon, Marius Gavrilescu, Costel Anton, **Catalin Lisa**, Sabina- Adriana Floria, Utilizarea unor algoritmi de inspirație biologică la minimizarea noxelor în procesul de obținere a cărămizilor, 44 pagini, ORDA, RGII/INT/4670/15.11.2023 – RGII/IES/4670/20.11.2023

B6 Silvia Curteanu, Nicoleta Anton, Florin Leon, Catalin Lisa, Marius Gavrilescu, Filip Tarcoveanu, Rețele neuronale în PyTorch pentru evoluția glaucomului, 25 pagini, RGII/INT/4867/29.11.2023 – RGII/IES/867/11.12.2023

K. Contracte de cercetare.

Director de grant/contract

P1 Director Proiect cercetare parteneri economici 2024 Cercetări teoretice și experimentale privind intensificarea îndepărtării apei din zațul de cafea fără utilizarea agenților termici, **nr.18973/29.05.2024,** 50000 Ron fără TVA

P2 Director proiect GI/P31/2021, Proiect pentru susţinerea capacităţii de publicare, valoare 45000 Ron

Membru în colectiv

P1 Membru proiect Arut Saramură ultrapură pentru performanța electrolizei alcaline cu obținerea hidrogenului verde, valoare 49000, perioada febr 2024- febr 2025

P2 membru Proiect Rose Ctr. Rose, AG129/SGU/PV/2019, Şcoala de vară pentru elevi ”Reacționează Chimic cu Mediul de la TUIași”, atelierul Fenomene de transfer de… cunoștințe, 2021-2024.

http://www.cercetare.icpm.tuiasi.ro/rose/pdf/2024/Orar-Rose-RCM_2024.pdf
http://www.cercetare.icpm.tuiasi.ro/rose/pdf/2022/orar_rose_2023.pdf
http://www.cercetare.icpm.tuiasi.ro/rose/pdf/2022/orar_rose_2022.pdf
http://www.cercetare.icpm.tuiasi.ro/rose/pdf/2021/orar_rose_2021.pdf

P3. Membru Proiect 301PED/2020 (cod UEFISCDI: PN-III-P2-2.1-PED-2019-1165): Upgradarea filtrarii prin biotrickling in contextul protectiei atmosferei si a schimbarilor climatice (Biotrickling filtration upgrade in the context of atmospheric protection and climate change) (BIO-UP), drirector Gabriela Soreanu

P4 Membru în colectivul proiectului intitulat Algoritmi de inspiratie biologica dezvoltati pentru modelarea si optimizarea unor procese chimice complexe (51/2017), PN-III-P4-ID-PCE-. 2016-0322

P5 Membru in echipa, la grantul Software products based on artificial intelligence algorithms applied to modeling and optimization of chemical systems, proiect parteneriate PN-II-PT-PCCA_2011_3.2-0732, contract nr. 23 din 2012, perioada 2012-2015

P6 Membru in echipa, la grantul Utilizarea reţelelor neuronale şi a algoritmilor genetici în ingineria reacţiilor de polimerizare. Aplicaţii la modelarea şi optimizarea sintezei polisiloxanilor”, contract CERES, beneficiar Institutul de Fizică Atomică Bucureşti, contract nr. 4-22/2004 (2006)

P7 Membru in echipa, grantul „Materiale compozite nanostructurate polimerice cu utilizare in monitorizarea mediului”, Subcontract „Modelare şi optimizare cu reţele neuronale şi algoritmi genetici”, contract CEEX nr. 5618/10.10.2005, subcontract 3, beneficiar MCT, 2005-2008

P8 Membru in echipa, “TEHNICI ALE INTELIGENTEI ARTIFICIALE APLICATE PROCESELOR DE SINTEZA SI COMPLEXARE ALE POLISILOXANILOR FUNCTIONALIZATI” cod CNCSIS 225, beneficiar C.N.C.S.I.S, 2006-2008

P9 Membru in echipa, “Noi SISteme nanostructurate utlizate pentru eliberarea controlata a agentilor farmacologici”, contract nr. 108, 2006-2008

P10 Membru in echipa, : „SISTEME AZOPOLIMERICE NANOSTRUCTURATE CU APLICATII IN MICROELECTRONICA SI BIOLOGIE (AZONANO)”, in baza Contractului de finantare nr.107, 2006-2008

P11 Membru in echipa, Noi sisteme terapeutice donoare de oxid de azot cu eliberare controlata, Colab. PN II 41-017/2007

P12 Membru in echipa Cercetari privind implementarea separarii magnetice in detoxificarea singelui uman utilizind particule magnetice suport, Colab. PN II 81-051/2007

P13 Membru in echipa, Modelare si conducere automata utilizand instrumente ale inteligentei artificiale pentru aplicatii in chimie si inginerie de proces (INTELCHIM), PNII parteneriate 71006/2007

P14 Membru in echipa, Materiale siliconice nanostructurate multifunctionale (NANOSIMAT) colab. CEEX 52/2006

P15 Membru in echipa, “Modelarea şi simularea polimerizării radicalice în condiţiile manifestării efectelor de gel şi vitrifiere”, Faza II: “Elaborarea modelelor exponenţiale pentru efectele de gel, vitrifiere şi colivie”, Contract 34280, Grant 270, tema nr. 6, beneficiar MEN, 1999 Ctr.34280 cod 270 T 6

P16. Membru in echipa, “Modelarea şi simularea polimerizării radicalice în condiţiile manifestării efectelor de gel şi vitrifiere”, Faza III: “Studiul sensibilităţii modelelor propuse pentru reacţii controlate de difuzie”, Contract 370789, Grant 878 , tema nr.22, beneficiar MEN, 2000 Ctr.370789 cod 878 T 22

P17. Membru in echipa, “Studiul şi modelarea extracţiei lichid-lichid cu ajutorul unor metode şi aparate noi. Etapa I: Studiul transferului de masa în aparate bicelulare. Coeficienţii de transfer de masă”, nr. 6177/2000, tema B 46, beneficiar ANSTI, 2000

P18Membru in echipa, “ Studiul şi modelarea extracţiei lichid-lichid cu ajutorul unor metode şi aparate noi. Etapa II: Factori care influenţează transferul de masă în extracţia lichid-lichid în aparate bicelulare”, nr. 6177/2000, act adiţional 1/2001 tema A 28, beneficiar ANSTI, 2001
P19 Membru in echipa, “Studiul şi modelarea extracţiei lichid-lichid cu ajutorul unor metode şi aparate noi. Etapa III”, nr. 33479/17.07.2002, beneficiar C.N.C.S.I.S, 2002.

L. Premii, distincţii.

1. Medalia de Bronz – la Euro Invent 2010 pentru lucrarea NEW APPLICATIONS OF ARTIFICIAL INTELLIGENCE TOOLS IN MOLECULAR DESIGN, autori Lisa Gabriela, Apreutesei Daniela, **Lisa Catalin**, Curteanu Silvia

M. Alte realizări semnificative.

- ✓ posesor al Permisului European de Conducere a Calculatorului (ECDL)
- ✓ participare în comisiile de licenta sectia Inginerie Chimica și Știința și Ingineria Polimerilor
- ✓ îndrumare lucrări prezentate la cercuri ştiinţifice;
- ✓ organizare şi îndrumare activităţi didactice în laboratoare didactice şi de cercetare ştiinţifică în catedra de Inginerie Chimică
- ✓ peste 40 comunicări şi prezentări la manifestări ştiinţifice internaţionale, naţionale cu/fără participare internaţională

Data, Semnătură,

4.03.2023

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
INGINERIA SUBSTANȚELOR ANORGANICE ȘI PROTECȚIA MEDIULUI

Numele şi prenumele: IACOB TUDOSE Eugenia Teodora

A. Teza de doctorat.

Institutie: University of Toronto, Department of Chemical Engineering, Toronto, Canada
Perioada: 1997-2002
Indrumator: Prof. Dr. Masahiro Kawaji
Titlul tezei: *„An experimental study of buoyant-thermocapillary convection in a rectangular cavity*"
Titlul: Studiul experimental al convecției termocapilare într-o cavitate rectangulară

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. E.T. Iacob Tudose, Ingineria proceselor fizice avansate – Îndrumar de aplicații practice, Editura EcoZone, 2024, ISBN 978-606-8625-44-7.
2. D.L. Horoba, E.T. Iacob Tudose, C. Lisa, I. Mămăligă, A.I. Moise, M.T. Nechita, Fenomene de transfer și operații unitare – Îndrumar de proiectare, Editura EcoZone, 2023, ISBN 978-973-621-532-2.
3. E.T. Iacob Tudose, Spinning disc reactor technology for environmental chemical processing: design and applications, In book: Currrent topics, concepts and research priorities in environmental chemistry (III) Chapter: 4, Publisher: „Alexandru Ioan Cuza" University Publishing House, Editors: Carmen Zaharia, Technical University "Gh.Asachi" of Iasi, 2014, ISBN 978-606-714-062-0.
4. S. Petrescu, I. Mămăligă, L. Horoba, A. Moise, E.T. Iacob Tudose, Fenomene de transfer și operații de difuziune, Editura EcoZone, 2011, ISBN 978-973-7645-78-4.

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

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.
Curs Ingineria Proceselor Fizice
https://classroom.google.com/u/1/w/NzQyNDQzODY4NTE2/t/all
Curs Fenomene de transfer și operații unitare 1
https://classroom.google.com/u/1/w/NzIyNDU4NjgwMTI0/t/all
Proiect Fenomene de Transfer
https://classroom.google.com/u/1/c/NzIyNDU4OTE0NDM1/m/NzQyNDQ0NDU3OTQ0

Curs +proiect Operații și utilaje specific/ Operații Termice
https://classroom.google.com/u/1/w/NzQyNDQ0MzA2ODQy/t/all
Curs Intensificarea Fenomenelor de Transfer
https://classroom.google.com/u/1/w/NzIyNDU5MTQ5ODgz/t/all

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

- Articole publicate în reviste cotate ISI

1. Barabulica I., Secula M., **ET Iacob Tudose**, Mamaliga I- Experimental Study on the Influence of Magnesium on the Separation of Carbon Dioxide from Gas Mixtures with Nitrogen by Combustion, Processes, 13(7),2054, 2025. 10.3390/pr13072054
2. 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
3. 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; 10.3390/chemengineering8020041
4. **E.T.Iacob Tudose,** Dispersion in a two-phase flow Sulzer column, Studia UBB Chemia, LXVIII, 2, 2023, p.169-184. DOI:10.24193/subbchem.2023.2.11
5. **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
6. **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(12)*, 3415. 10.3390/nano11123415.
7. 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; 10.3390/pr9112003
8. **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
9. **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.
10. M.Popa, **E.T.Iacob Tudose**, I.Mamaliga – Mass transfer in solid-liquid extraction at high solute concentrations, Environmental Engineering and Management Journal, vol. 17, No. 4, 755-1020, 2018
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. **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.
13. 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.
14. 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.
15. **Iacob Tudose E.T**., Study of Taylor bubble eccentricity on the movement speed in slug biphasic flow, Revista de Chimie, vol 58, no.11,p.1000-1003, 2007.
16. 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.
17. **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.
18. **Tudose E.T**., Kawaji M., Experimental investigation of Taylor bubble acceleration mechanism in slug flow, Chemical Engineering Science, v.54, p.5761-5775, 1999.

19. 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.
20. **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.

- Articole publicate în volume indexate ISI Proceedings

21. **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
22. **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.
23. **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.
24. **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.
25. **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.
26. 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.

- Articole indexate în baze de date internaţionale

27. Zaharia C., **Iacob Tudose E.T**., Spinning disc technology for textile wastewater treatment – characteristics, modeling and optimization study, Bulletin of Romanian Chemical Engineering Society,69(73),p. 27-45, 2023
28. **E.T. Iacob Tudose** , M Kawaji - Bubble Shape Influence on Slug Flow Acceleration Mechanism, Bulletin of Romanian Chemical Engineering Society, 68(72), 4, p.9-20, 2022
29. **E.T. Iacob Tudose** - Modeling of noncatalytic gas-solid reactions. The reaction zone thickness, Bulletin of Romanian Chemical Engineering Society, 68(72), 3, p.9-23, 2022
30. **Iacob Tudose E.T**., Observations on the Spinning Disc Micromixing Characteristics, Bulletin of Romanian Chemical Engineering Society, vol. 67(71), nr.2, 2021.
31. 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.
32. 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.
33. 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.
34. Solid-liquid extraction – an old but still future promising method- Marcela Popa, **E.T. Iacob-Tudose,** Ioan Mămăligă**,** Buletinul Institutului Politehnic Iaşi, Secţia Chimie si Inginerie Chimică, vol.60 (63), nr. 1, 2013

35. 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#)
36. Horoba L., Ibănescu I., **Tudose E.T.,** 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.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

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.,** Two-phase flow – Hydrodynamics of the slug flow regime, Memoriile Sectiilor Stiintifice, Seria IV, Tomul XXVI, Editura Academiei Romane, Bucuresti, 2004.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **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.
2. 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.
3. **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
4. **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, 1999. (http://www.iafastro.com/archives/pap99/iaf-p99/99_pIAF-J.htm)

J. 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.

K. Contracte de cercetare.

Director de grant/contract

1. Grant CNCSIS 2006-2007, *Caracterizarea hidrodinamica a curgerii bifazice de tip slug (piston)-studiu analitic si experimental*

Contract GR 63/19.05.2006-tema nr.15, cod CNCSIS 277, valoare 11000 roni
Contract GR 80/23.05.2007, valoare 9.000 Ron

2. Grant TUIASI PI/GI33 – 2022, valoare 45000 roni.

Membru în colectiv

1. Grant CNCSIS nr.27637/14.03.2005 cod 422, tema 10
2. Grant CSA (AGENTIA SPATIALA CANADIANA) 1999-2002, *Studiul experimental al instabilitatilor in curgerea termocapilara,* Ph.D. thesis, Universitatea din Toronto, Canada.
3. Grant NSERC (CONSILIUL NATIONAL DE CERCETARE CANADA), 1995-1996, *Studiul experimental al mecanismului de accelerare a bulelor Taylor in curgerea slug*, M.Sc. thesis, Universitatea din Toronto, Canada

L. Premii, distincţii.

Premiu special de excelenţă la conferinţa Spacebound 2000 organizată de Agenţia Spaţială Canadiană, Vancouver, Canada, 2000.

M. Alte realizări semnificative.

- Activități de evaluator științific pentru reviste internaționale cu factor de impact.
- Conducerea de echipe de cercetare/ mentorat pentru studenți.
- Dezvoltarea de metodologii și instalații în domeniul de inginerie chimică/materiale.
- Implicare în activități de promovare a facultății.

Data, Semnătură,

2/09/2025

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **APOSTOLESCU A.R. NICOLAE**

A. Teza de doctorat.

Institutie: Universitatea Tehnică ”Gheorghe Asachi” din Iași
Perioada: 1995-2003
Indrumator: prof. dr. ing. Ion Balasanian
Titlul tezei: Catalizatori diversificați pentru reducerea oxizilor de azot
Titlul: Doctor in domeniul 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.

Nicolae Apostolescu, Maria Harja, Gabriela-Antoaneta Apostolescu, Materiale inovative și procedee avansate pentru aplicații funcționale, Editura EcoZone Iasi, 2026, 227 p., ISBN 978-606-8625-48-5, DOI: 10.5281/zenodo.18709216

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

Gabriela-Antoaneta Apostolescu, Nicolae Apostolescu, Chimie Anorganică Descriptivă: Elementele din blocul s, EcoZone, Iasi ISBN 978-606-8625-46-1, 152 pg., 2025, DOI: 10.5281/zenodo.18709330

G.A. Apostolescu, N. Apostolescu, Materii prime minerale: bazele identificării mineralelor și rocilor, Ed. Ecozone, Iași, ISBN 978-606-8625-33-1, 218 pg., 2022

R.E. Tataru-Farmus, M. Harja, L. Lazar, N. Apostolescu, Ingineria Produselor Fertilizante anorganice - indrumar de laborator, Ed. Ecozone, Iași, ISBN 978-606-8625-13-3, 250 pg., 2017

N. Apostolescu, G.A. Apostolescu - Materiale Anorganice Speciale, Pigmenți, Ed. ECOZONE, Iași, ISBN 978-606-8625-00-3, 244 pg., 2014

M. Harja, L. Lazăr, N. Apostolescu, A. Szep, Ingineria Produselor Anorganice - Săruri Anorganice - Îndrumar de laborator, Ed. ECOZONE, Iaşi, ISBN 978-973-7645-93-7, 209 pg, 2013

F. Bandrabur, L. Lazăr, N. Apostolescu, Ingineria Proceselor Electrochimice: Protecţie Anticorosivă. Îndrumar de laborator, Ed. ECOZONE, Iaşi, ISBN 978-973-7645-30-2, 209 pg., 2007

M. Apostolescu, N. Apostolescu, Tehnologia Materialelor Nucleare, Ed. Societăţii Academice "Matei - Teiu Botez", Iaşi, ISBN 973-7962-71-0, 268 pg., 2005

F. Bandrabur, L. Lazăr, N. Apostolescu, Pregătirea Materialelor şi Finisarea Suprafeţelor, Ed. Societăţii Academice "Matei - Teiu Botez", Iasi, ISBN 973-7962-74-5, 200 pg., 2005

N. Apostolescu, M. Apostolescu - Mineralogie, Aplicaţii, Ed. "Gh. Asachi" Iaşi, ISBN 973-8050-24-3, 152 pg., 2000.

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

Al. Szep, N. Apostolescu - Medii şi materiale. Culegere de date privind comportarea materialelor în diferite medii. Protecţia anticorosiva prin alegerea materialelor, Lit. U.T. Rotaprint - Iaşi, 113 pg., 1998.

M. Apostolescu, N. Apostolescu - Mineralogie şi Materii Prime pentru Industria Chimică Anorganică, Part 1., Lit. U.T. Rotaprint Iaşi, 328 pg., 1996.

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

Nicolae Apostolescu, Ramona Elena Tataru Farmus, Maria Harja, Mihaela Aurelia Vizitiu, Corina Cernatescu, Claudia Cobzaru, Gabriela Antoaneta Apostolescu, Photocatalytic Removal of Antibiotics from Wastewater Using the CeO2/ZnO Heterojunction, Materials 16, 850, 2023

Claudia Cobzaru, Genoveva Bordeianu, Gabriela Antoaneta Apostolescu, Ramona-Elena Tataru-Farmuş, Nicolae Apostolescu, Corina Cernatescu, Thermal and photochemical degradation of cooked sunflower, olive and palm oils, Revue Roumain de Chimie 66(7), pp. 645–652, 2021

Pricopi, Maria Magdalena; Chelariu, Romeu; Apostolescu, Nicolae; Gordin, D-M; Sutiman, Daniel; Mareci, Daniel; Corrosion behavior of some TiMoNb alloys in ringer solution,Revista de Chimie-Bucharest-Original Edition, 71, 7, p. 187-196, 2020

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

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

Claudia Cobzaru, Adriana Marinoiu, Gabriela Antoaneta Apostolescu, Ramona Elena Tataru-Farmus, Nicolae Apostolescu, Corina 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, 61 (4-5) , pp. 427-432, 2016

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Membru în colectiv

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Facultatea de Inginerie Chimică şi Protecţia Mediului ,,Cristofor Simionescu", Titlul subproiectului: Îmbunătățirea ratei de retenție a studenților in primul an de studii universitare, prin prevenirea abandonului de la Facultatea de Inginerie Chimica si Protecția Mediului "Cristofor Simionescu" din Iași, Acronim: StepUP, Acord de grant nr. 195/SGU/NC/II/13.09.2019

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Contractul nr. 818 P /2016 , Studiu asupra cerii de albine de diferite calităţi în vederea utilizării ei în produsele cosmetice, Director de contract: S. L. dr. ing. Claudia Cobzaru

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Proiect POSDRU 87/1.3/S/63576, Formarea continuă a profesorilor de Limba Română în societatea cunoaşterii, Beneficiar: ISJ Botoşani, Finanțare solicitată: 20.898.635 RON, Perioada de implementare: 2010-2013, membru, specialist în evaluare la Centrul pentru Dezvoltare şi Inovare în Educaţie - TEHNE

Proiectul strategic POS-DRU: "Performanţă prin postdoctorat pentru integrarea in aria europeană de cercetare" (PERFORM-ERA) ID 57649 , Manager de proiect: Prof. dr. ing. Marcel Popa, Buget total proiect: 20.813.320 RON - 2010-2013, membru în echipa de implemetare a proiectului la Universitatea Tehnică ”Gheorghe Asachi” din Iași

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Data, Semnătură,

Martie 2026

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAŞI

FACULTATEA DE INGINERIE CHIMICĂ ŞI PROTECŢIA MEDIULUI ”CRISTOFOR SIMIONESCU”

Domeniul de master: Inginerie Chimică

Programul de studii: Ingineria Substanțelor Anorganice și Protecția mediului

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

Numele și prenumele: **LAZĂR LILIANA /** Titlul științific: **Dr. ing. /** Gradul didactic: **Conferențiar universitar**

A. Teza de doctorat

Titlul tezei	**PURIFICAREA AERULUI DE COMPUŞI ORGANICI VOLATILI**
Instituţie	**Universitatea Tehnică ”Gheorghe Asachi” din Iaşi (TUIASI)**
Domeniu	**Inginerie chimică**
Perioada	**01.11.1998 – 20.10.2006**
Conducător științific	Prof. univ. dr.ing. Ion Balasanian
Data susținerii publice	**20.10.2006**
Titlul ştiinţific	**Doctor** (conform Ordinului M.E.C. nr. **632 /21.03.2007**)
Diploma:	**Diplomă de DOCTOR** (seria E nr. 0001021, eliberată de TUIASI cu nr. 933/23.04.2007)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) / capitole de carte – publicate în străinătate

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4. **Lazar L.**, Tataru-Fărmus R.-E., Apostolescu N., Harja M., *Ingineria produselor anorganice – acizi, oxizi şi hidroxizi* (îndrumar de laborator) (în curs de publicare 2026 la Editura Ecozone Iași).
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6. **Lazăr Liliana***, Köser H., Balasanian I., Csaba Andras, Bandrabur F., *Catalytic oxidation of volatile organic compounds by SCR-DeNOx type catalyst,* 10th International Conference of Chemistry, (Erdélyi Magyar Műszaki Tudományos Társaság. X. Nemzetközi, Vegyésykonferencia, Kolozsvár), Cluj-Napoca, November 12-14, **2004**, pp.360-363, (EMT, ISBN 973-7840-00-3)
7. **Lazăr Liliana***, Balasanian I., Bandrabur F., *Conversion catalytique des composes organiques volatils halogènes.* Actes du troisième Colloque Franco-Roumain de Chimie Appliquée, COFrRoCA-2004, Slănic Moldova, Bacau, Roumanie, 22-26 septembre, **2004**, p.428-431 (Alma Mater Bacău, ISBN 973-8392-36-5 & Tehnica INFO Chişinău, ISBN 9975-63-183-5)
8. Bandrabur F., Kovács István, Szép Sándor, **Lazăr Liliana**, *Propriety in watts bath made nikkel coantings,* 9th International Conference of Chemistry, (Erdélyi Magyar Műszaki Tudományos Társaság. IX. Nemzetközi, Vegyésykonferencia, Kolozsvár), Cluj-Napoca, November 14-16, **2003**, pp.307-310 (EMT, ISBN 973-86097-6-3)
9. **Lazăr Liliana***, Balasanian I., *Dépollution par incinération catalytique des émissions des installations de peinture*, Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, COFrRoCA-2002, L'Université de Bacau, Roumanie, 10-12 septembre, **2002**, pp. 345-348 (Alma Mater, Bacău ISBN 973-8392-04-7 & Tehnica INFO Chişinău ISBN 9975-63-140-1)

10. Bandrabur F., **Lazăr Liliana**, *Séparation de cuivre des solution acides de chlorures par la cémentation*. Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, COFrRoCA-2002, L'Université de Bacau, Roumanie, 10-12 octombre **2002**, pp. 349-350 (Alma Mater, Bacău ISBN 973-8392-04-7 & Tehnica INFO Chişinău ISBN 9975-63-140-1)

J. Invenţii:

1. Cretescu Igor, Arghirescu Marius, Gorecki Gabriel Petre, Soreanu Gabriela, **Lazar Liliana**, Harja Maria, *Izoleta de pat cu sistem de purificare a aerului / Bed isolation with air purification system*, Brevet de invenție nr. 134366, OSIM România, București, Data eliberării 30.09.2024.

K. Contracte de cercetare / granturi: 16 - din care: la 2 director și la 14 membru în echipă

Proiecte / Contracte / Granturi de cercetare-dezvoltare cu echipă internaţională

1. Membru în echipa - **Proiect tip consorțiu INGENIUM**, *Upcycling of wastes and by-products to green chemicals and energy*, Acronym: UP2Green, Director: Prof.dr.ing. Igor Crețescu, 2024 – 2025, Leading Principal Investigator: Assist.Prof. Lucia Tonucci, Leading INGENIUM institution: Università degli Studi G. d'Annunzio di Chieti-Pescara (Climate, energy and mobility), Perioada: 01.05.2024 – 31.05.2025.
2. Membru în echipă – **Proiect Horizont 2020 tipul ERANET, nr. 107 / 01.05.2019**; Tema: *Reducerea decalajului dintre cerere și oferta în cadrul ciclului hidrologic prin acțiuni armonizate pentru realizarea unui management durabil al resurselor de apa,* Director proiect Prof.dr. ing. Igor Cretescu, Buget – 326.223 RON / perioadă: 01.05.2019 - 30.10.2021.
3. Membru echipă – **Research Program - Externally Funded Projects, Martin-Luther University Halle-Wittenberg, Germany, Centre for Engineering Science, Institute for Environmental Technology Merseburg,** Project title: *SCR-DeNOx plants treating HCl/HBr and hydrocarbon containing flue gases*, Project manager – Prof. habil. dr. ing. H. Köser; project agent - L. Lazăr / 01.01.2004 – 30.09.2005.

Proiecte / Contracte / Granturi de cercetare-dezvoltare cu echipă naţională, câştigate prin competiţie naţională, cu finanțare europeană

1. **Director / Responsabil de proiect TUIASI, Contract de finanțare ADR Nord-Est nr. 739 / 25.07.2025**, Titlul proiectului: *Instalație inovatoare de obținere a hidrogenului verde prin gazeificarea biomasei, cu sistem de filtrare avansat "GREEN-GAS-H2"*, Cod SIMIS 338901, Programul de finanțare, Prioritate de investiții P1. Nord-Est – O regiune mai competitivă, mai inovativă, Apel de proiecte nr PR/NE/2024/P1/RSO1.1._RSO1.3/1 – Proiecte de CDI și investiții în IMM, Parteneriat: AUDIT IT&C SRL Bacău și TUIASI, valoare totală proiect 29.814.226,80 lei, inclusiv TVA (perioada iulie 2025 – iulie 2027), din care pentru partener TUIASI 1.488.274,80 lei (293.499 Euro / curs BNR 5,0708 / 25.07.2025), perioada implementare TUIASI iulie 2025 – iulie 2026, echipa TUIASI: 1 director + 8 membri.
2. **Membru** în echipă **Contract 7335/14.10.2022**, Serviciilor de consultanta in cercetare industriala – pentru proiectul cu titlul "*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 Prof.dr.ing. Harja Maria, 9 membri, Buget: 171.286,75 lei / 34,708.56 Euro).

Proiecte / Contracte / Granturi de cercetare-dezvoltare cu echipă naţională, câştigate prin competiţie naţională

3. **Director Grant Național de Cercetare – ARUT (competiție națională) / Contract TUIASI Nr. GNaC 2023_274 / 2024,** *Saramură ultrapură pentru performanța electrolizei alcaline cu obținerea hidrogenului verde* (acronim upBrine-greenH2), Finanțator TUIASI, Buget = 49.771 lei (echivalent 10.000 EURO) / *Perioada:* martie 2024 – mai 2025 / dec. 2025.

4. Membru în echipă – **PC 92-084/2008** – contract de finanțare prin program Parteneriate PNCDI II; Tema: *Cercetări privind expertizarea stării de conservare a obiectelor de patrimoniu cultural prin tehnici moderne nedestructive și obținerea/evaluarea de noi materiale pentru conservarea activa in vederea asigurării viabilității comunitare (MILAD);* Director: CS II dr.ing. C.Bibire –TABOR Iaşi; Responsabil partener UTI - conf.dr.ing. Rodica Diaconescu; Buget UTI – 56.000 RON / 2009 – 2011 (16.000 / 2009; 17.000 / 2010; 23.000 / 2011).

5. Membru în echipă – **Proiect PN II Parteneriate 71-020 /2007** – contract de finanţare prin programul Parteneriate CO - programul 4 "Parteneriate in domeniile prioritare" prin Centrul National de Management Programe, directia de cercetare D6 Biotehnologii; Tema: *Ansamble nanostructurate cu organizare texturală controlată de tip LDH cu aplicații în protecția mediului (NATOEPA);* Director: Prof. dr.ing. Gabriela Cîrjă; Buget UTI: 649.733 RON / 2007 – 2010 (31.000 RON / 2007; 430.000 RON / 2008; 142.681 RON / 2009; 46.052 RON / 2010).

6. Membru în echipă – **Proiect PN II Parteneriate 61-038 /2007** – contract de finanţare prin programul Parteneriate CO - programul 4 "Parteneriate in domeniile prioritare" prin Centrul National de Management Programe, directia de cercetare D6 Biotehnologii; Tema: *Cercetări avansate privind tehnicile de eliminare a agenţilor microbiologici în procese de purificare a apei utilizând radiaţii UV (DAPR-RUV);* Director: conf. dr.ing. Irina Volf; Buget UTI: 569.721 RON / 2007 – 2010 (30.000 RON / 2007; 362.053 RON / 2008; 90.478 RON / 2009; 87.190 RON / 2010).

7. Membru în echipă – **Proiect PN II Capacități 94/13.09.2007** – contract de finanţare prin programul PN II Capacităţi; Tema: *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; Buget: 1.978.500 RON / 2007 – 2009 (5.000 RON / 2007; 1.945.000 RON / 2008; 28.500 RON / 2009).

8. Membru în echipă – **35-GR 2800P/2006** – Grant al Academiei Romane (GAR tema 69/2005 – Ştiinţe chimice); Tema: *Noi nanostructuri mesoporoase de tip argile anionice substituite cu proprietăţi magnetice şi aplicaţii în biotehnologie;* Director: Prof.dr.ing. G. Carja – Buget – 4.100 RON / 2006.

9. Membru în echipă – **GR-155/2005** - Grant al Academiei Romane (GRA tema 69/2005 – Ştiinţe chimice); Tema: *Noi nanostructuri mesoporoase de tip argile anionice substituite cu proprietăţi magnetice şi aplicaţii în biotehnologie;* Director: Prof.dr.ing. G. Carja - Buget – 3.800 RON / 2005.

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare cu echipă naţională, încheiate cu institute de cercetare, companii, regii, societăţi comerciale

1. **Director** contract AgE: **Contract cercetare – dezvoltare – inovare Nr. TUIASI : 36682 / 11.11.2021,** *Cercetarea și dezvoltarea unor procedee inovative de valorificare a resurselor materiale și a fluxurilor industriale reziduale pentru eficientizarea producției verzi la Chimcomplex SA Borzești, Finanţator:* SC CIMCOMPLEX SA Borzești, Buget = 20.000 lei, *Perioada*: nov. 2021 – nov. 2023.

2. **Director** contract AgE: **Contract cercetare – dezvoltare Nr. TUIASI : 36244 / 09.11.2021,** *Caracterizarea fizico-chimică a unor sortimente de nisip cuarţos utilizate într-o instalaţie de cogenerare alimentată cu biomasă, Finanţator:* SC GETEC SERVICII ENERGETICE București; Buget = 9.500 lei / perioada nov. 2021 – nov. 2023.

3. **Director** contract AgE: **Contract cercetare – dezvoltare Nr. TUIASI : 8230 /23.04.2018** încheiat cu Agent

economic; *Dezvoltarea unui sistem pentru controlul compoziției specifice fluidelor de spălare din industria auto; Finanţator:* S.C. Delphi Diesel Systems România S.R.L., Iași; Buget: 11.765 EURO + TVA (14.000 EURO, inclusiv TVA) / perioada 04.2018 – 15.10.2020.

4. **Director Contract cercetare – dezvoltare Nr. TUIASI : 1269P/2007** încheiat cu Agent economic; *Cercetări privind depunerea electrochimică a nichelului şi cromului pe diverse tipuri de oţel; Finanţator:* S.C. FEROMET M S.R.L., Piatra Neamţ; Buget: 4201,68 RON (5.000 RON inclusiv TVA) / perioada 2007 – 2008.
5. **Membru** în echipă **Contract cercetare – dezvoltare Nr. TUIASI : 19592/10.09.2019** încheiat cu Agent economic; *Noi materiale pe baza de fibra de sticla și valorificarea avansata a deseurilor din cadrul SC BICO INDUSTRIES SRL;* 10.000 Euro + TVA, perioada 09.2019 – 12.2022 (Director: Harja Maria, Echipa: Gabriela Margareta Ciobanu, Igor Cretescu, Liliana Lazar, Ioan Damian, Gabriela Soreanu).
6. Membru în echipă **Contract nr. 712P/2003** încheiat cu Agent economic (responsabil: Prof.dr.ing. Şt. Ivaşcan); *Inhibitori de coroziune pentru instalaţiile de hidrofinare din rafinărie* – Tehnologie fază pilot; *Finantator: S*.N.P. PETROM S.A. Suc. Petrobrazi, România – Buget: 700.000.000 ROL / 2003.
7. Membru în echipă **Contract nr. 328P/2003** încheiat cu Agent economic (responsabil: Prof.dr.ing. Şt. Ivaşcan); *Inhibitori de coroziune pentru instalaţiile de hidrofinare din rafinărie; Finantator:* S.N.P. PETROM S.A. Suc. Petrobrazi, România – Buget: 500.000.000 ROL / 2002 – 2003.
8. Membru în echipă **Contract nr. 344 P/1999** încheiat cu Agent economic (responsabil: Prof.dr.ing. M. Apostolescu); *Combaterea coroziunii în pitting a oţelurilor pasivabile în medii de hidrocarburi şi soluţii cu conţinut de cloruri, sulfuri şi oxigen dizolvat; Finantator:* S.C. Zecasin S.A., Bucureşti, România – Buget: 15.000.000 ROL / 1999.
9. Membru în echipă **Contract nr. 5796/1999** încheiat cu Agent economic (responsabil: Prof.dr.ing. M. Apostolescu); *Studiul coroziunii în instalaţiile de hidrofinare benzină. Metode pentru eliminarea acesteia. Finanţator:* S.C. Petrobrazi S.A., Brazi, România – Buget: 80.000.000 ROL / 1999.

L. Premii, distincţii

1. **Medal Inventica 2020 – Diploma of Achievement**, *Izoleta cu sistem de purificare a aerului / Bed isolation with air purification system*, autori: Cretescu Igor, Arghirescu Marius, Gorecki Gabriel Petre, Soreanu Gabriela, **Lazar Liliana**, Harja Maria, XXIV-th Internatioanl Exhibition of Inventics, INVETICA 2020, Iasi, Romania, 29 – 31 July, 2020.
2. **Medalie de aur EUROINVENT 2018** pentru publicația *Ingineria produselor fertilizante anorganice – Îndrumar de laborator*, autori: Ramona-Elena Tataru-Fărmuş, Maria Harja, Liliana Lazăr, Nicolae Apostolescu, Ed. Ecozone 978-606-8625-13-3, 2017, 263 pg. EUROINVENT, 17-19 May 2018, www.euroinvent.org.
3. **Medalie argint EUROINVENT 2018** pentru lucrarea *Modeling of CO_2 absorption process in activated solutions*, autori: Elisabeta Hultuana, Gabriela Ciobanu, Igor Cretescu, Liliana Lazar, Ramona Elena Tataru-Farmus, Maria Harja, EUROINVENT, 17-19 May 2018, www.euroinvent.org.

M. Alte realizări semnificative

Participare la elaborarea unor materiale pentru învățământul preuniversitar

1. **Lazăr Liliana**, Repere metodologice GLC – Ministerul Educației: Modulul M2 – Utilaje și operații mecanice și hidrodinamice din industria chimică; Repere metodologice pentru clasa a IX-a Protecția mediului și Chimie

industrială, Învățământ Profesional și Tehnic (IPT), Domeniul de Pregătire Profesională: Chimie Industrială și Protecția Mediului, Editor: Ministerul Educației Centrul Național de dezvoltare a învățământului profesional și Tehnic an școlar 2021 – 2022 (adev. 3384 / 626 / CNPEE / 07.09.2021) (https://www.edu.ro/repere_metodologice_aplicare_curriculum_clasa_IX_an_scolar_2021_2022).

- Activitatea de învățare față în față nr.10 + Activitatea de evaluare nr. 10, Separarea amestecurilor eterogene gaz-solid, Tema 1: Filtrarea amestecurilor eterogene gaz-solid folosind filtrul cu saci, pg. 221 – 230 (10 pg.).
- Activitatea de învățare față în față nr.11 + Activitatea de evaluare nr. 11, Separarea amestecurilor eterogene lichid-solid, Tema 2: Filtrarea amestecurilor eterogene lichid-solid folosind filtrul presă, 231 – 239 (9 pg.).
- Activitatea de învățare online nr. 10 + Activitatea de evaluare online nr. 10, Separarea amestecurilor eterogene gaz-solid, Tema 1: Filtrarea amestecurilor eterogene gaz-solid folosind filtrul cu saci, pg. 310 – 355 (46 pg.).
- Activitatea de învățare online nr. 11 + Activitatea de evaluare online nr. 11, Separarea amestecurilor eterogene gaz-solid, Filtrarea amestecurilor eterogene lichid-solid folosind filtrul presă, pg. 356 – 366 (11 pg.).

Participare cu lucrări comunicate la manifestări științifice internaționale

1. Valeria Danilova, Dumitru Coman, **Liliana Lazăr***, Ioan Mămăligă, *Application of new chelating resin in brine hardness removal to feed the chlor-alkali membrane cell process II. Thermodynamic and Kinetic Studies*, SICHEM 2025 - International Chemical Engineering and Material Symposium, București, Romania, 6-7 November **2025**, (https://www.societatea-de-inginerie-chimica.ro/index.html)
2. **Liliana Lazăr***, Valeria Danilova, Dumitru Coman, Maria Harja, Ioan Mămăligă, *Purification of saturated brine using new chelating resin for the chlor-alkali sustainable process*, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 87.
3. Valeria Danilova, Loredana-Vasilica Postolache, Dumitru Coman, Adrian Bele, Claudia Roman, **Liliana Lazar***, Gabriela Lisa, Long-term stability of polymer resins used in brine purification and assessment of energy recovery potential of resins waste, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 163.
4. Dumitru Coman, Valeria Danilova, **Liliana Lazar***, Ioana Fechete, Ioan Mămăligă, *Control and performance assessment for brine electrolysis industrial process by ion exchange membrane cell*, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 77.
5. Georgiana Balusescu, **Liliana Lazar***, Adrian-Catalin Puitel, Daniel Gherca, George Stoian, Teodor Malutan, *Effectiveness of Soxhlet Extraction on Secondary Metabolites from Datura Innoxia: a Study of Chemical and Morphological Characterization*, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 89.
6. Claudia Roman, Gabriel Savin, Georgiana Vitelaru, Miguel A. Delgado, Moisés Garcia-Morales, **Liliana Lazar***, *Redispersion Strategies for Dried Cellulose Nanofibers: Enabling their Use in Bio-based Lubricating*, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 155.

7. Mihaela Fanache (Vasiliu), **Liliana Lazar**, Roxana Bucur, Maria Harja, *Environmental and Economic Perspectives onUsing Waste Window Glass as Aggregate in Concrete*, ICEEM 13 – 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025**, (https://www.iceem.tuiasi.ro/) – Book of Abstracts, pp. 251.

8. Gabriela Carja, Loredana Gavrila, **Liliana Lazar**, *Entangling Nanostructures of ZnAl Ldh/Zno/ZnAl2O4 for Ibuprofen Degradation under Solar Light Irradiation,* ICEEM 13 - 13th International Conference on Environmental Engineering and Management, Iași, Romania, 17-20 September, **2025** (https://www.iceem.tuiasi.ro/) - – Book of Abstracts, pp. 157.

9. Gabriela Carja, **Liliana Lazar**, Denis Cutcovschi, *Engineering the structural memory of Zn-based LDH to boost the plasmonic responses of AuNP/LDH dual catalysts*, ICON 2025 - The 5th International Online Conference on Nanomaterials Part of the International Conference on Nanomaterials Sciences (online series, 22-24 September **2025** (https://sciforum.net/event/IOCN2025?section=#winnerannouncement).

10. **Liliana Lazar***, Dumitru Coman, Ioana Fechete, Gabriela Carja, Ioan Mamaligă, *Mass and energy balances analysis and energy efficiency strategies of the brine electrolysis process in ion exchange membrane reactors*, 6th International Conference on Materials Science, Engineering and Technology, 28 - 30 May **2025**, Paris, France.

11. Dumitru Coman, **Liliana Lazar**, Ioan Mămăligă, *Trends for energy efficiency and cost reduction of the brine electrolysis for chlor-alkali membrane cell processes,* 8th International Conference of the Doctoral School, "Gheorghe Asachi" Technical University of Iasi, May 14 - 16, 2025, Iaşi, România (Book of Abstracts, pp. 97).

12. Valeria Danilova, **Liliana Lazar**, Ioan Mămăligă, *Performance of new chelating resin in brine hardness removal to feed the chlor-alkali membrane cell process***,** 8th International Conference of the Doctoral School, "Gheorghe Asachi" Technical University of Iasi, May 14 - 16, 2025, Iaşi, România (Book of Abstracts, pp. 98)

13. Valeria Danilova, **Liliana Lazar***, Ioan Mămăligă, *Application of new chelating resin in brine hardness removal to feed the chlor-alkali membrane cell process. I. Optimization using response surface methodology*, Young Researchers' International Conference on Chemistry and Chemical Engineering - YRICCCE V, 8 - 10 May **2025**, Cluj-Napoca, Romania.

14. 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*, International Conference on Materials Science and Engineering, November 14-15, **2024**, Rome, Italy (https://prezentis.com/material-science/2024).

15. **Liliana Lazar***, Dumitru Coman, Leonid Vasiliu, Maria Harja, *Green hydrogen application in reducing consumption of fossil fuels and decarbonization of cement production*, 7th international Conference on Emerging Technologies In Materials Engineering, EmergeMAT, 30 – 31 October **2024**, Bucharest, Romania (https://imnr.ro/wp/en/announcements/7th-edition-of-international-conference-on-emerging-technologies-in-materials-engineering-emergemat/).

16. **Liliana Lazar***, Loredana-Vasilica Postolache, Daniela Rusu, Mirela-Fernanda Zaltariov, Dumitru Coman, Gabriela Lisa, *Performance of a new ion exchange resin for brine ultrapurification used in alkaline electrolysis*, 7th international Conference on Emerging Technologies In Materials Engineering, EmergeMAT, 30 – 31 October **2024**, Bucharest, Romania (https://imnr.ro/wp/en/announcements/7th-edition-of-international-conference-on-emerging-technologies-in-materials-engineering-emergemat/)

17. **Liliana Lazăr***, Valeria Danilova, Ioana Fechete, Dumitru Coman, *Hydrogen production by alkaline electrolysis integrated with green technologies*, 27th International Symposium "Environment and Industry, SIMI – 2024, September 19 – 20, **2024**, Constanța, Romania (https://www.simiecoind.ro/).

18. **Liliana Lazar***, Dumitru Coman, Valeria Danilova, Ioan Mamaliga, *Performance of brine electrolysis process by ion exchange membrane*, 23rd Romanian International Conference on Chemistry and Chemical Engineering, RICCCE23, 4 – 7 September **2024**, Mamaia – Constanța, Romania (https://riccce.chimie.upb.ro/).

19. Mihaela Caftanachi, **Liliana Lazar**, Leonid Vasiliu, Maria Harja, *Low Carbon Dioxide Emission in Inorganic Binder Materials Obtaining*, 23rd Romanian International Conference on Chemistry and Chemical Engineering, RICCCE23, 4 – 7 September **2024**, Mamaia – Constanța, Romania (https://riccce.chimie.upb.ro/).

20. Valeria Danilova, **Liliana Lazar**, Ioan Mămăligă, *Influence of impurities in electrolyte on the membrane for brine electrolysis process*, 7th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi, Romania, May 15 - 17, **2024**, Iasi, Romania, (https://conferinta-csd.tuiasi.ro/organizers/2024-2/).

21. **Liliana Lazar***, Valeria Danilova, Florin Bandrabur, Ioan Mămăligă, *The influence of mass transport on the electrocrystallisation process*, International Chemical Engineering and Material Symposium, SICHEM 2024, 11-12 april **2024**, ISSN 2537-2254 (https://www.ache.org.rs/images/First_Announcement_SICHEM_2024.pdf).

22. **Lazar L.***, Vasiliu L., Droniuc (Hultuana) E., Lisa G., Harja M., *Assessment of limestone thermal decomposition performance and dioxide carbon emission control*, 12th International Conference on Environmental Engineering and Management ICEEM12, which will be held between 13th - 16th of September **2023**, Iasi, https://www.iceem.tuiasi.ro/, 2457-7049, Book of abstract, Ecozone 2023

23. Harja M., Favier L., **Lazar L.**, *Reduction of environmental pollution by valorification of ash as sustainable material*, 12th International Conference on Environmental Engineering and Management ICEEM12, which will be held between 13th - 16th of September **2023**, Iasi, https://www.iceem.tuiasi.ro/, 2457-7049, Book of abstract, Ecozone 2023.

24. **Lazar Liliana***, Lisa Gabriela, Șoreanu Gabriela, Harja Maria, *Conversion of plaster molds wastes into the new inorganic products by thermal dehydration*, 32nd International Conference, August 14 – 17, **2023**, Burgas, Bulgaria.

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109. Bandrabur F., **Lazăr Liliana**, *Séparation de cuivre des solution acides de chlorures par la cémentation*. Actes du deuxième Colloque Franco-Roumain de Chimie Appliquée, COFrRoCA-2002, 10-12 octombre **2002**, L'Université de Bacau, Roumanie.

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Participare cu lucrări comunicate la manifestări științifice naționale

1. **L. Lazar***, M. Harja, *Ingineria chimică anorganică - între tradiție și perspectivele chimiei verzi*, Simpozionul de Istoria Învățământului și Științelor Tehnice – Ediția a XI-a, Zilele Universității" Gheorghe Asachi" din Iași, 13 noiembrie **2019** (https://www.tuiasi.ro/noutati/simpozionul-de-istoria-invatamantului-si-stiintelor-tehnice-o-incursiune-in-trecutul-ingineriei-in-romania-adus-la-viata-de-zilele-universitatii/)

2. Ceica Anca, Bulgariu Laura, **Liliana Lazăr**, Cretescu Igor, Balasanian Ion, *Eliminarea nitraţilor din apa în prezenta anionilor competitori utilizând răşini PUROLITE*, Zilele Facultăţii de Inginerie Chimica și Protecţia Mediului, ZFICPM7, S2: Procese și tehnologii inovative, 17-19 nov. **2010**, Iaşi.
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4. Adrian Bele, Doru Sidor, Mircea Teodor Nechita, **Liliana Lazăr**, Stelian Petrescu, *Studiul experimental al uscării gazelor prin absorbţie în coloane cu filme lichide subţiri*, Zilele Facultăţii de Inginerie Chimica și Protecţia Mediului, ZFICPM7, S2: Procese și tehnologii inovative, 17-19 nov. **2010**, Iaşi.
5. **Liliana Lazăr***, Marcel Vrânceanu, Ion Balasanian, Stelian Petrescu, *Influenta modelului de contact asupra cineticii uscării convective a granulelor de suport catalitic α-Al_2O_3*, Zilele Facultăţii de Inginerie Chimica și Protecţia Mediului, ZFICPM7, S2: Procese și tehnologii inovative, 17-19 nov. **2010**, Iaşi.
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7. **Liliana Lazăr***, Ion Balasanian, *Studiul potenţialului termodinamic de valorificare a deşeurilor rezultate de la modelarea ceramicii fine*, Zilele Facultăţii de Inginerie Chimică și Protecţia Mediului, ZFICPM 6, S2: Procese și tehnologii inovative, 18-20 noiembrie, **2009**, Iaşi.
8. **Liliana Lazăr***, Maria Harja, Florin Bandrabur, *Soluţii inovative de protecţie anticorosivă prin tratarea mediului agresiv*, Zilele Facultăţii de Inginerie Chimică și Protecţia Mediului, ZFICPM6, S2: Procese și tehnologii inovative, 18-20 noiembrie, **2009**, Iaşi, România.
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11. Gabriela Cârjă, **Lazăr Liliana**, Dranca Sofronia, Ion Balasanian, *Metode fizico-chimice avansate de caracterizare a nanocatalizatorilor*. Zilele Facultăţii de Inginerie Chimică și Protecţia Mediului, ZFICPM 4, 15-16 noiembrie, **2007**, Iaşi.
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13. Adina-Mirela Căpraru, Florin Bandrabur, **Lazăr Liliana***, *Influenţa transferului de masă în reactoarele electrochimice asupra consumului de energie electrică și a calităţii produsului finit*. Zilele Facultăţii de Inginerie Chimică, ZFIC 3, 18-19 ianuarie, **2007**, Iaşi.
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19. **Liliana Lazăr***, I. Balasanian, F. Bandrabur, *Metode de depoluare a emisiilor gazoase cu conţinut de compuşi organici volatili*. A III-a Conferinţă a Facultăţii de Chimie Industrială, 13-15 nov., **2002**, Iaşi.
20. **Liliana Lazăr***, I. Balasanian, *Catalizatori utilizaţi în combustia emisiilor gazoase din instalaţiile de vopsire.* A III-a Conferinţă a Facultăţii de Chimie Industrială, 13-15 nov., **2002**, Iaşi.
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22. F. Bandrabur, **Liliana Lazăr**, *Modelarea matematică a proceselor de coroziune a metalelor în medii acide.* 6th Edition of Chemical Engineering Processes Symposium, 23-25 octombrie, **1999**, Piatra Neamţ.

Alte tipuri de Proiecte / Contracte prin care se aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.

Participare la proiecte de educație și în interesul asigurării calității (naționale / internaționale)

1. Membru în echipă – Proiect ”Ingenium Alliance of European Universities”, ERASMUS-EDU-2022-EUR-UNIV, Grant Agreement Project ID 101090042 – INGENIUM (calitatea în echipa de implementare: Expert WP2 – Building a cohesive cooperation framework).
2. Membru echipă – Proiect de mobilitate Erasmus KA103, Număr identificare TUIASI 2019-RO01-KA103-061457, Organism de finanțare ANCPDEFP, Perioada 01.06.2019 – 31.05.2022 (calitatea în echipa de implementare: Membru expert proiect).
3. Membru echipă – Program SOCRATES-CDI/EU 51388-IC-2002-1-RO-ERASMUS-PROG 1; Project title: *Management of Chemical Investigations for Environmental Protection ;* Project manager – Prof.drchim. C. Drăghici – Universitatea Transilvania din Barșov / Program Socrates-Erasmus, CDI 2000-2003.

Propuneri de proiecte pentru competiție națională / internațională

1. Propunere proiect competiție națională 2016 Bridge Grant (Transfer de cunoastere la agentul economic) / PN-III-CERC-CO-BG-2016; Tema: *Purificarea avansată a saramurii folosind noi materiale schimbătoare de ioni pentru creșterea productivității instalației de fabricare a sodei M*; PN-III-P2-2.1-BG-2016-0431 / Domeniul 4 - Eco-nano-tehnologii și materiale avansate; Director: S.l.dr.ing. Liliana Lazar; Partener 1 (P1) - Chimcomplex S.A. Borzesti (eligibil / nefinanțat).
2. Propunere proiect competiție națională 2008 Proiecte IDEI / PN-II-PCE-2008-2 / competitie - martie 2008; Tema: *Studiul cinetic și termodinamic al unei noi solutii pentru absorbtia reactiva a dioxidului de carbon* - Proiecte de cercetare exploratorie – Domeniul 10 - Inginerie chimica și de proces ; cod CNCSIS 358 / Director: Prof. Dr. Ing. Ilie Siminiceanu; S.l.dr.ing. Liliana Lazar - membru în echipa de elaborare a proiectului (eligibil / nefinanțat).

3. Propunere proiect competiție internațională 2007 Marie Curie Intra-European Fellowships; Call: FP7-PEOPLE-2007-2-1-IEF, Proposal ID: 220867; Proposal status: Proposal submitted on 14/08/2007 08:55:21 CET, Proposal Title: *Mercury Emission Abatement: Development of a mercury oxidation catalyst for flue gases from power plants / Proposal Acronym: MercEmissOxiCat*, Applicant researcher: PhD. Eng. Liliana Lazar; Co-ordinator of organization: Prof. H.Köser (Germany) – eligibil / nefinanțat.

Contracte de sponsorizare obținute în urma activităților desfășurate cu partenerii industriali pentru îmbunătățirea condițiiilor de studiu, învățare și cercetare și bursele studenților (84.405 RON)

1. **Responsabil contract de sponsorizare – 2026:** Contract de sponsorizare nr. TUIASI 3310 / 02.02.2026; *Sponsor:* S.C. DECORIAS SRL Iași – Buget: 850 RON (fără TVA 21%); *Scop:* sticlărie laborator pentru activități didactice și de cercetare.
2. **Responsabil contract de sponsorizare – 2022:** Contract de sponsorizare nr. TUIASI 4013 / 07.02.2022; *Sponsor:* S.C. CHIMCOPLEX SA Borzești – Buget: 48.300 RON (fără TVA); *Scop:* burse de studii și de cercetare.
3. **Responsabil contract de sponsorizare – 2019:** Contract de sponsorizare nr. TUIASI 3044 / 23.12.2019; *Sponsor:* S.C. CHIMCOPLEX SA Borzești – Buget: 10.000 RON (fără TVA); *Scop:* achiziția de aparatură, materiale și consumabile necesare desfășurării activităților de laborator; achizitie de soft specializat în ingineria chimică de proces și tehnică de calcul / achiziția de materiale și mobilier necesare igienizării unor spații didactice.
4. **Responsabil contract de sponsorizare – 2018:** Contract de sponsorizare nr. TUIASI 1797 / 19.12.2018; *Sponsor:* S.C. CHIMCOPLEX SA Borzești – Buget: 5.000 RON (fără TVA); *Scop:* achizitie de materiale necesare igienizării unor laboratoare, achiziția de aparatură, materiale și consumabile necesare desfășurării activităților de laborator.
5. **Responsabil contract de sponsorizare – 2018:** Contract de sponsorizare nr. TUIASI 27758 / 10.12.2018; *Sponsor:* HEIDELBERGCEMENT România S.A. – Buget: 9.000 RON (fără TVA); *Scop:* achizitie de materiale necesare igienizării unor laboratoare, achiziția de aparatură, materiale și consumabile necesare desfășurării activităților de laborator.
6. **Responsabil contract de sponsorizare – 2017:** Contract de sponsorizare nr. TUIASI 22447 / 13.11.2017; *Sponsor:* SAINTGOBAIN GLASS România S.R.L. – Buget: 2.000 EURO (9.255 RON) (fără TVA); *Scop:* achizitie de materiale necesare igienizării unor laboratoare, achiziția de aparatură, consumabile și tehnică de calcul necesare desfășurării activităților de laborator.
7. **Responsabil contract de sponsorizare – 2015:** Contract de sponsorizare nr. 9477 din 14.05.2015 / TUIASI; *Sponsor:* S.C. CHIMCOPLEX SA Borzești – Buget: 2.000 RON (fără TVA); *Scop:* achizitie materiale didactice pentru laborator.

Data: 09.03.2026

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Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **NECHITA MIRCEA-TEODOR**

A. Teza de doctorat.

Institutie: Universitatea Tehnică Gheorghe Asachi din Iași
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Titlul tezei: Compuși anorganici cu aplicații în cataliză
Titlul: Doctor în chimie, **Diploma Seria E, Nr. 0000989**

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

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

C1 - Nechita M. T., *Operații Mecanice. Caracterizarea și procesarea solidelor granulare și pulverulente – note de curs*, Ed. ECOZONE, Iași, ISBN 978-606-8625-32-4, pg. 145, 2022
C2 - Nechita M. T., *Inițiere în modelarea reactoarelor chimice. Aplicații numerice: reactoarele ideale, regim izoterm, regim adiabatic - reacții singulare",* , Ediția a II-a, revizuită și adăugită, Ed. ECOZONE, Iași, ISBN 978-606-8625-09-06, pg. 175, 2016
C3 - Nechita M. T., *Inițiere în modelarea reactoarelor chimice. Aplicații numerice: reactoarele ideale, regim izoterm, reacții singulare*, Ed. ECOZONE, Iași, ISBN 978-973-7645-99-9, pg. 109, 2013
C4 - Diaconescu R., Nechita M. T., Petrescu S., *Sinteza asistată de calculator a rețelelor de schimbătoare de căldură*, Ed. Ecozone, Iași, ISBN 978-973-7645-77-7, pg. 204, 2010
C5 - Sutiman D. M., Nechita M. T., *Structura si proprietățile catalizatorilor eterogeni. Metode moderne de investigare,* Ed. Pim, Iași, ISBN 973-716-490-3, pg. 248, 2006
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D2 - Robu B., Nechita M. T., Suditu G. D., *Informatică aplicată. Aplicații Excel în chimie şi ingineria mediului* , Ed. Pim, Iași, ISBN 978-606-13-0220-8, pg. 50, 2011
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D4 - Sutiman D., Căilean A., Ştefancu E., Foca N., Vizitiu M., Sibiescu D., Apostolescu G., Nechita M., *Chimie Anorganică – caiet de laborator*, Ed. Pim, Iaşi, ISBN 973-716-235-8, pg. 148, 2005
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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Articole publicate în reviste cotate ISI

F01 Marcoie N., Toma I. O., Chihaia Ș., Hrăniciuc T. A., Toma D., Balan C. D., Drăgoi E. N., Nechita M. T., *Anthropogenic River Segmentation Case Study: Bahlui River from Romania*, Hydrology, 12, 9, 224, (23 pag.), 2025, https://doi.org/10.3390/hydrology12090224

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F46 - Craus M-LRusu, I., Rosca I., Rusu A., Nechita M., *Temperature influence on the behaviour of the mixed oxide Ca3,5Cd0,5Bi2Nb5O18*, Analele Universităţii "Aurel Vlaicu" Arad, , pp. 339-342, 2000

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.

J. Invenţii.

Nr	Titlu	Tip
1	*Instalație pentru epurarea apelor uzate prin metode foto- sono-chimice*, Suditu. D., Nechita M. T., Puițel A. C., Drăgoi E. N., **RO 135064 B1, BOPI nr. 7/2025**	OSIM
2	*Metodologie de optimizare a procesului de decolorare a leșiei negre folosind algoritmi de inspirație biologica*, Drăgoi E.N., Nechita M.T., Suditu G.D., Puițel A.C., nr. 4749/20.11.**2023**	ORDA
3	*Procedeu de valorificare integrală a unor reziduuri lignocelulozice provenite din culturile agricole*, Puițel A.C., Bârjoveanu G,, Drăgoi E. N., Nechita M. T., Balan C. D.,Custură E. A., 139183 A2, BOPI nr. 10/2025 (***cerere de brevet***)	OSIM

K. Contracte de cercetare.

Director de grant/contract

Nr.	Titlul proiectului	Tip	Valoare	AN	Director
Director					
1	Investigaţii privind structura şi rolul nanocentrilor de fier la formarea oxigenului α pe catalizatorul cu comportare biomimetică Fe-ZSM-5 preparat prin metoda oxalatului de fier III	Grant CNCSIS nr. 27637/2005 tema 72, cod CNCSIS 123	80000 (mii lei)	2005	Sef lucrari.dr.ing . Mircea Teodor Nechita

Membru în colectiv

Nr.	Titlul proiectului	Tip	Valoare	AN	Director
1	Determinarea biostabilităţii şi biocompatibilităţii materialelor dentare prin utilizarea reţelelor neuronale	Grant 63 Tema 25 COD CNCSIS 124	17500 RON	2006	Prof.dr.ing. Daniel Sutiman
		Grant 80, Tema 52 COD CNCSIS 124	17500 RON	2007	
2	Studii asupra difuziunii şi echilibrului de fază în filme şi membrane polimerice în apropierea temperaturii de tranziţie	Grant 80 Tema 52 COD CNCSIS 124	29650 RON	2007	Conf.dr.ing. Ioan Mamaliga
3	Proiectarea, construcția și testarea unui prototip hibrid de echipament pentru degradarea cianurilor condus cu sistem expert	GNaC2018_20/ 2019	27940.24 RON	2019-2020	Sef lucrari dr. ing. Suditu Dan Gabriel
4	Fracţionarea biomasei în sistem integrat de biorafinare pentru obţinerea de produse sustenabile	GNaC2018_15/ 2019	27997 RON	2019-2020	S.l. dr. ing. Adrian Catalin Puitel
5	Modelare și optimizare bazată pe inteligența artificială aplicată unui sistem hibrid dezvoltat prin simbioza unor metode de tratare a apelor uzate	PN III 58 PCE/2021	522486 331512 336310 RON	2021 2022 2023	S.l. dr. ing. Elena Niculina Dragoi
6	Tehnologie sustenabila pentru procesarea reziduurilor lignocelulozice rezultate din culturile agricole in vederea integrarii in economia circulara	PN III 643 PED/2022	146765 376139 75891 RON	2022 2023 2024	S.l. dr. Ing. Adrian Catalin Puitel

L. Premii, distincţii.

2 medalii de aur, Euroinvent 2023, 2024

M. Alte realizări semnificative.

Burse, specializări, stagii de pregătire

Nr	Durata	Denumire	Țara	Coordonator(i)
1	1 an	The synthesis of some inorganic compounds containing transition metals and their possible applications in catalysis (2001)	România/ Elveția	Prof. I. Roșca/ Prof. G. Stratan
2	6 luni	Potentiometric and amperometric sensors (2002 – 2003)	Polonia	Prof. J Radecki
3	5 luni	Training and research in the field of spectroscopic and computational characterisation of heterogeneous catalysts (2003 – 2004)	Italia	Prof. A. Zecchina Prof. G. Ricchiardi
4	4 luni	Preparation, characterisation and catalytic performances of some transitional metals supported on ZSM-5 zeolite catalysts (2005)	Italia	Prof. A. Zecchina Prof. G. Ricchiardi

Data, Semnătură,



Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Apostolescu Gabriela Antoaneta**

A. Teza de doctorat.

Instituție: *Universitatea Tehnică "Gheorghe Asachi" din Iași*
Perioada: 2000-2004
Indrumator: Prof dr. ing. Ioan Roşca
Titlul tezei: ***Cercetări privind obţinerea unor nanoparticule metalice***

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
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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.
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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",
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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.
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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.
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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,

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: Tataru- Fărmuș Ramona- Elena

A. Teza de doctorat.

Institutie: *Universitatea Tehnică Gheorghe Asachi din Iași*
Perioada: octombrie 2003 – aprilie 2011
Indrumator: prof. emerit dr. ing. Siminiceanu Ilie
Titlul tezei: Studiul absorbtiei dioxidului de carbon in noi soluții de amine
Titlul: doctor, domeniul 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.

Harja M., R.- E. Tataru – Fărmuş, 2019, Ingineria produselor fertilizante anorganice:note de curs, Editura Pim Iasi, ISBN 978-606-13-4900-5, 250 pg, 2019

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Tataru-Farmus R. E., Cernătescu C., Cobzaru C., Apostolescu G. A., Apostolescu N., Schiff bases and its potential use for wastewater treatment in: Current topics, concepts and research priorities in environmental chemistry (IV), (Ed) Zaharia C., Editura Universității “Alexandru Ioan Cuza”, Iași, ISBN 978-606-714-207-5,Cap. 3, pp. 53-68 (15 pg), 2015.

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.

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Blaga, A.C.; Cimpoesu, R.; Tataru-Farmus, R.-E.; Suteu, D. Eco-Friendly Biosorbents from Biopolymers and Food Waste for Efficient Dye Removal from Wastewater. Polymers 2025, 17, 291. https://doi.org/10.3390/polym17030291

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Cobzaru C., Matcabojă (Gherasim) M. A., Marinoiu A., Apostolescu G. A., Tataru Fărmuș R. E., Cernătescu C., Characteristics of oil obtained from grape seeds separated from dried and fresh marc, The Bulletin of the Polytechnic Institute from Iaşi, Chemistry and Chemical Engineering Section, Issue 63(67), Fasc. 1, pp. 23 – 28, 2017

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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.

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J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

Grant de cercetare Gnac2018_10/2019, Valoare totala 28000 lei
Titlul: Studiul absorbției reactive a dioxidului de carbon în soluții de carbonat de potasiu promotate cu noi amine (CAPRO-AMINA)
Director de proiect

Membru în colectiv

Proiect tip consorțiu INGENIUM, *Upcycling of wastes and by-products to green chemicals and energy*, Acronym: UP2Green, Director: Prof.dr.ing. Igor Crețescu, 2024 – 2025, Leading Principal Investigator: Assist.Prof. Lucia Tonucci, Leading INGENIUM institution: Università degli Studi G. d'Annunzio di Chieti-Pescara (Climate, energy and mobility), Perioada: 01.05.2024 – 31.05.2025.

Obtinerea de Materiale cu Valoare Adaugata prin Valorificarea Subproduselor Industriale (AddValueMat)", PN-III-P2-2.1-PED-2019-1063. Contract nr. 490 PED/2020, 58989 lei TUIASI/2022

Proiect ROSE/ SGU/PV/ AG 326/18.06.2020 "Experimentează și descoperă fascinația studenției!

Contract agent economic, nr. 598P/07.04.2016, Val. totală 600 RON.
Titlul: Studiu asupra obținerii de săpunuri lichide plecând de la diferite uleiuri vegetale.
Director: Șef lucrări dr. ing. Corina Cernătescu
Membru în echipa de cercetare

Contract agent economic, nr. 818P/2016, Val. totală 600 RON.
Titlul: Studiul asupra cerii de albine de diferite calităţi în vederea utilizării ei în produsele cosmetice.
Director: Șef lucrări dr. ing. Claudia Cobzaru
Membru în echipa de cercetare.

Contract agent economic, nr. 598P/2016, Val. totală 600 RON.
Titlul: Efectuarea unui studiu privind proprietățile fizico-chimice pentru obținerea unui produs roll-on din alaun de potasiu si aluminiu amorf
Director: Șef lucrări dr. chim. Gabriela Antoaneta Apostolescu.
Membru în echipa de cercetare

Beneficiar:

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;

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.

Apostolescu N., Cernatescu C., Tataru Farmus R. E., Cobzaru C., Blaga A., Marinoiu A., Apostolescu G.A., Nanoporous CeO2-ZnO as Efficient Material for the Degradation of Organic Dye under UV Irradiation, International conference on Advanced Technology & Science, ICAT 15, august 4-7, 2015, Antalya, Turcia. – best paper award

Hultuana E., G. Ciobanu, I. Cretescu, Lazăr L., R.E Tataru-Farmus, Harja M., Modeling of CO2 absorption process in activated solutions, the 10th edition of Euroinvent European Exhibition of Creativity and innovation, Iași 2018 - silver medal.

Tataru-Fărmuș R.-E., Harja M., Lazăr L., Apostolescu N.Ingineria produselor fertilizante anorganice: îndrumar de laborator, Ed. Ecozone Iaşi, 2017, ISBN 978-606-8625-13-3, 263 pag - the 10th edition of Euroinvent European Exhibition of Creativity and innovation, Iași 2018 – gold medal

M. Alte realizări semnificative.

Lucrări prezentate la manifestari stiintifice internationale

Tataru-Fărmuș, R.-E., Suflic-Casian, D., Cernătescu, C., Cobzaru, C., Apostolescu, G. A., Enhanced CO_2 Absorption in Potassium Carbonate Solutions Promoted with Potassium Alaninate and Nickel Nitrate, 6th International Colloquium Energy and Environmental Protection, 12-14 November 2025, Ploieşti, Romania

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Nica I., Zaharia C., R. Cimpoesu , R.E. Tataru-Farmus , A.M. Tanasă, D. Suteu, Application of hydrogel based on tricarboxi-cellulose in vinyl alcohol matrix for Methylene Blue dye removal from aqueous solutions, 6th International Conference on Chemical Engineering, Iași, Romania, October 05 – 07 2022

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Tataru-Farmus R.E., E. Hultuana, Cernatescu C.,Cobzaru C., G.A. Apostolescu, Apostolescu N., Harja M., Physical properties of aqueous solutions of potassium carbonate promoted by ethylenediamine, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4-7 septembrie 2019, Constanta- Mamaia, Romania

Tataru- Farmus R.E., E. Hultuana, Apostolescu N., G. Lisa, Harja M., Characterization of potassium carbonate solutions promoted by ethylenediamine and triethylenetetramine. density of aqueous solutions: measuring and correlation, International Conference ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY, 9-11 October, 2019,Chisinau, Republic of Moldova

Harja M., L. Forminte (Litu), G. Ciobanu, O. Kotova, R. E. Tataru- Farmus, Experimental studies for reduced costs and improve the efficiency of clarification systems, International Conference ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY, 9-11 October, 2019,Chisinau, Republic of Moldova

Harja M., E. Hultuana, Apostolescu N., G. Apostolescu, R.E. Tataru- Farmus, Characterization of potassium carbonate solutions promoted by new amines. Viscosity of aqueous solutions: measuring and correlation, Conferinţa Internaţională “Zilele Academiei de Ştiinţe Tehnice din România” “Creativitatea în dezvoltarea Societăţii Cunoașterii” Chișinău, 17 –18 octombrie 2019

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Tataru- Farmus R.E., Siminiceanu I., Bouallou Ch., Carbon dioxide absorption into new formulated amine solutions (I).Solution viscosity measuring and correlation, 10th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution

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Bobu M. M., Siminiceanu I., Tataru R., Wilson S., Lundanes E., Photocatalitic degradation of phenyilurea herbicides in aqueous solution, Biotehnologies present and perspectives, International Symposium, third edition, Suceava, Romania, November, 15-17, 2007

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Tataru Farmus R.E., Siminiceanu I, Amann J.M., Kinetics of carbon dioxide absorption into triethylenetetramine aqueous solutions, International Conference on Physical Chemistry, Romphyschem-12, September 6 - 8, Bucharest – ROMANIA, 2006

Rivera-Tinoco R., Tataru-Farmus R., Bouallou C., Siminiceanu I., Viscosities of binary mixtures of ethylenediamine + water and triethylenetetramine + water in the temperature range from 293.15 to 333.15 K and 0 – 50 wt % aqueous solutions, 17th International Congress of Chemical and Process Engineering 27-31 August 2006, Prague - Czech Republic

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Tataru-Farmus R., Siminiceanu I., Determinarea constantelor cinetice la absorbtia dioxidului de carbon in solutii apoase de amine, Zilele Facultatii de Inginerie Chimică si Protectia Mediului Iasi, editia a V-a, Materiale si Procese Inovative, Iasi, 19-21 noiembrie 2008, 271-274

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Tataru-Farmuș R., Rivera-Tinoco R., Siminiceanu I., Bouallou C., Measuring and correlation of the viscosity of aqueous solutions of ethylendiamine and triethylenetetramine, Zilele Universitatii „ Al. I. Cuza"- Sesiunea de Comunicari Stiintifice, 27-28 octombrie 2006

Tataru Fărmuş R., Amann J.M.,, Ilie Siminiceanu, Kinetics of co2 absorption into ethylendiamine (EDA) aqueous solutions, Zilele Facultatii de Inginerie Chimică Iasi, 24-25 noiembrie, 2005

Siminiceanu I., Tataru Farmus R., Butnaru M., Reducerea emisiilor de NOx la fabricarea acidului azotic diluat prin intensificarea absorbtiei, A XXVIII-a Conferinţă Naţională de Chimie, Călimăneşti-Căciulata,6-8 octombrie 2004

Data, Semnătură,

Anexa II.7.9 - Liste de lucrari cadre didactice

Lista de lucrari in domeniul de studii universitare de licenta

Inginerie Chimica

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.

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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

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- Articole publicate in reviste cotate ISI

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

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7. Karimi-Maleh H, Atigh ZBQ , Sadeghifar H , Najafi M, Rajendran S, Ayati A, Chinnathambi A, Dragoi EN, Kalikeri S. Shifting paradigms in PFAS resin removal with biomaterial alternatives. Journal of the Taiwan Institute of Chemical Engineers, 166(1), p. 1-11, ISSN: 1876-1070, 2025, DOI: 10.1016/j.jtice.2023.105300

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

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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

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19. Vasseghian Y, Alimohamadi M, Dragoi EN, Sonne C. A global meta-analysis of phthalate esters in drinking water sources and associated health risks. Science of The Total Environment, 903, art no 166846, ISSN: 0048-9697, 2023, DOI: 10.1016/j.scitotenv.2023.166846

20. 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

21. Mostafazadeh R, Hamidian Y, Erk N, Dragoi EN. A novel and reusable sensing platform for electrochemical detection of norepinephrine based on nitrogen-doped porous carbon anchored CoFe2O4@NiO nanocomposite. Carbon Letters, 33,6, pages 1827-1837, ISSN: 1976-4251, 2023, DOI: doi.org/10.1007/s42823-023-00538-8

22. Nivetha N, Srivarshine B, Sowmya B, Rajendiran M, Saravanan P, Rajeshkannan R, Rajasimman M, Pham THT, Shanmugam VK, Dragoi, EN. A comprehensive review on bio-stimulation and bio-enhancement towards remediation of heavy metals degeneration. Chemosphere, 312,1, art 137099, ISSN: 0045-6535, 2023, DOI: doi.org/10.1016/j.chemosphere.2022.137099

23. Wu T, Karimi-Maleh H, Dragoi EN, Puri P, Zhang DX, Zhang ZX. Traditional methods and biosensors for detecting disinfection by-products in water: A review. Environmental Research, 237 (1), art no 116935, ISSN: 0013-9351, 2023, DOI: 10.1016/j.envres.2023.116935

24. Suditu GD, Dragoi EN, Puitel AC, Nechita MT. Technological and Economic Optimization of Wheat Straw Black Liquor Decolorization by Activated Carbon. Water, 15(16), art no 2911, ISSN: 2073-4441, 2023, DOI: 10.3390/w15162911

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26. Wu YJ, Tiri RNE, Bekmezci M, Altuner EE, Aygun A, Mei CT, Yuan Y, Xia CL, Dragoi EN, Sen F. Synthesis of novel activated carbon-supported trimetallic Pt-Ru-Ni nanoparticles using wood chips as efficient catalysts for the hydrogen generation from NaBH4 and enhanced photodegradation on methylene blue. International Journal of Hydrogen Energy, 48(55), p 21055-21065, ISSN: 0360-3199, 2023, DOI: 10.1016/j.ijhydene.2022.07.152

27. Xing T, Wu YJ, Wang QL, Sadrnia A, Behmaneshfar A, Dragoi, EN. Adsorption of ibuprofen using waste coffee derived carbon architecture: Experimental, kinetic modeling, statistical and bio-inspired optimization. Environmental Research, 231(3), art no 116223, ISSN: 0013-9351, 2023, DOI: 10.1016/j.envres.2023.116223

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L. Premii, distinctii.

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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

9. 2016. Gold medal 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

10. 2016. Special award from the Romanian Association for Unconventional Technologies, Bucharest Branch: 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

11. 2016. Premiu excelenta: Elena-Niculina Dragoi. Categorie: "Tanarul cercetator cu cele mai bune performance in cercetarea stiintifica". Universitatea Tehnica "Gh. Asachi", Iasi 8 noiembrie 2016

12. 2016. Gold medal: Elena-Niculina Drăgoi, Silvia Curteanu. System identification methodology based on Differential Evolution and Back-Propagation (SADE-NN-2). EUROINVENT. European exhibition of creativity and innovation, Iasi, 21 May 2016

13. 2016. Medalia "Gh. Asachi": Elena-Niculina Dragoi. Categorie: "Tanarul cercetator cu cele mai bune performance in cercetarea stiintifica". Universitatea Tehnica "Gh. Asachi", Iasi 8 noiembrie 2016

14. 2010. Second place: Elena-Niculina Drăgoi, Florin Leon, Silvia Curteanu, Camelia Mihăilescu. Neural networks developed with Differential Evolution algorithm applied to the study of some biological active systems. National Bioengineering Symposium, Ed. XIII, Iasi

M. Alte realizari semnificative.

Citari: 3146 Web of Science (fara autocitari); Hirsch: 33 (WoS), 40 (Google Scholar)

Membru Editorial Board: Alexandria Engineering Journal, Chemosphere (SI Editor), Materials (SI Editor), International Journal of Applied Science Research and Review, Juniper Online Journal Material Science

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

ORCID: https://orcid.org/0000-0001-5006-000X

ResearchGate: https://www.researchgate.net/profile/Elena_Dragoi

Google Scholar: https://scholar.google.ro/citations?user=jHgCcyIAAAAJ

Data,

11.03.2026

Semnatura,



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Bulgariu Laura**

A. Teza de doctorat.

Institutie: Universitatea Tehnică „Gheorghe Asachi" Iaşi, Facultatea de Chimie Industrială
Perioada: 2001-2006
Coordonator: Prof.univ.dr.chim. Ioan Sârghie
Titlul tezei: Studii privind extracţia cu solvenţi a unor ioni metalici toxici
Titlul: DOCTOR in Chimie, diploma seria E nr. 0000988, Ordin MEC 5764 / 28.11.2006.

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.
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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.
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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.

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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*.
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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*.
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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*.
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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.
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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*.
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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.
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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.**
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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 Tomesţi – 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,
4.03.2026

Semnătură,

Anexa - Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă

Numele şi prenumele: **Nica Petru-Edward**

A. Teza de doctorat.

Institutie: Universitatea Al.I. Cuza Iași
Perioada: 1997-2004
Indrumator: Prof. Dr. Ilie Bursuc, Prof. Dr. Ghiorghe Călugăru
Titlul tezei: Contribuţii la studiul materialelor compozite cu matrice de aluminiu
Titlul: Doctor în Fizică. Fizica Fenomenelor electromagnetice

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

1	*Experimental and Theoretical Studies on the Dynamics of Transient Plasmas Generated by Laser Ablation in Various Temporal Regimes* P.E. Nica, S.A. Irimiciuc, M. Agop, S. Gurlui, M. Ziskind, C. Focsa, in "Laser Ablation - From Mechanisms to Applications", Ed. T. Itina, InTech, Zagreb, Croatia, pp. 2-30 (2017). DOI: 10.5772/intechopen.70759
2	*The fractal and its implications in the material science* Editors: M. Agop, P.D. Ioannou, **P. Nica**, V. Păun Athens University Press, Athens, Greece, 2008, ISBN: 978-960-92410-1-4 Coautor Cap. VI
3	*Particles and Fields* Editors: M. Agop, P.D. Ioannou **P. Nica** (coautor diverse capitole) Athens University Press, Athens, Greece, 2005
4	*Nonlinearities in Materials Science and Field Theories* Editors: M. Agop,E. Zerikiotis **P. Nica** (coautor cap 4,5,7) Ed. Graphic Arts, Atena, Grecia, 2002, pp. 85-120;
5	*Nonlinear Phenomena in Materials Science*, Editors: M. Agop, N. Rezlescu, G. Kalogirou **P. Nica** (coautor cap. 5) Ed. Graphic Arts, Athens, Greece 1999 ISBN 960-91155-0-0

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

1	**P. Nica** în Colectiv membrii Departamentului de Fizică TUIASI Îndrumar de lucrări practice pentru disciplina Fizică, , Editura Performantica, 2023
2	**P. Nica** (Ed.) și alții (colectiv șase autori) Investigații experimentale și teoretice ale unor plasme obținute cu ajutorul laserului, Editura Performantica, 2022, ISBN 978-606-685-947-9
3	L. Bădeliță, **P. Nica**, *CAPITOLE DE FIZICĂ GENERALĂ pentru învățământul tehnic superior E*ditura Performantica, 2018
4	**P. Nica**, *Complemente de Fizică tehnologică*, Editura Universității Petrol-Gaze din , Ploiești 2011, ISBN 978-973-429-9
5	**P. Nica,** *Fizică universitară*, vol. 2, Editura Ars Longa, Iasi, 2008, ISBN 973-8912-95-3
6	**P. Nica**, D. Condurache, *Introducere in biofizică***,** Editura Ars Longa, Iasi, 2007, ISBN 973-8912-77-6

7	M. Agop, C. Radu, **P. Nica**, V. Enache *Autoorganizarea interfeţei solid-lichid şi implicaţii,* Editura Ars Longa, Iaşi 2007, ISBN 973-8912-56-3
8	E.I. Horga, **P. Nica**, Gh. Călugăru, *FIZICA pentru definitivat, grade şi concursuri*, vol. 1,2,3, Editura Tehnica INFO, Chişinău, 1999, ISBN 9975-910-80-7, 675 pg.
9	**P. Nica**, C.D. Nechifor, S.E. Băcăiță, *Caiet de lucrări practice la disciplina Fizică 2 pentru Faculatea de Chimie Industrială*, Editura PIM, Iaşi 2014, ISBN: 978-606-1715-8
10	**P. Nica**, C.D. Nechifor, R. Bădescu, D. Condurache, *Caiet de lucrări practice la disciplina Fizică Generală,* Editura PIM, Iaşi 2010, ISBN: 978-606-13-0035-8
11	G. Strat, D. Condurache, R. Bădescu, I. Grecu, **P. Nica** *Caiet de lucrări practice de fizică. Specializarea Ingineria mediului,* Editura PIM, Iaşi 2009, ISBN: 978-606-520-598-7
12	G. Strat, D. Condurache, R. Bădescu, I. Grecu, **P. Nica**, I. Horga *Caiet de lucrări practice de fizică şi biofizică,* Editura PIM, Iaşi 2003, ISBN: 973-7967-27-5
13	*Teste de fizica pentru admitere (Vol. 1,2,3),* Ed. Univ. tehnice "Gh. Asachi" Iasi, 2002, Autori: membrii Catedrei de Fizică (20 pers), 16.5cm/22.5cm, 40 rânduri/pagina
14	R.A. Stana, B.A. Stana, **P. Nica,** M. Agop, *Dinamici fractale în nanostructuri* Editura Ars Longa, Iaşi 2014, ISBN 978-973-148-172-2
15	**P. Nica**, I. Nica, *Compozite dentare restaurative: aspecte structurale și proprietăți fizice,* Editura Ars Longa, Iaşi 2014, ISBN 978-973-148-174-6
16	M. Agop, R.S. Luciu, C. Buzea, **P. Nica** *Utilizarea dinamicii neliniare în modelarea unor procese fizice,* Editura Ars Longa, Iaşi 2012, ISBN 978-973-148-107-4

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.

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
1	C. Ursu, **P. Nica**, GB. Rusu, C. Vitelaru, G. Popa, C. Focsa	Laser absorption spectroscopy on a transient aluminum plasma generated by excimer laser ablation	SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY	2022.	196				106510
2	**P. Nica**, C. Ursu, C. Focsa	Electrical Characterization of Carbon Plasma Generated by Excimer Laser Ablation of Graphite	Appl. Surf. Sci.	2021	540				148412
3	**P. Nica,** C. Ursu, C. Focsa	Long-range oscillations of a laser-produced carbon plasma recorded by an electrostatic energy analyzer	JOURNAL OF APPLIED PHYSICS	2021	129 (5)				53305
4	**Nica, PE**; Ursu, C	Formation mechanisms of carbon dimer in excimer laser produced plasma	EUROPEAN PHYSICAL JOURNAL D	2020	74	10			207
5	Irimiciuc, SA**; Nica, PE**; Agop, M; Focsa, C	Target properties - Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes	APPLIED SURFACE SCIENCE	2020	506				144926

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
6	Ursu, C; **Nica, P**; Rusu, BG; Focsa, C	V-shape plasma generated by excimer laser ablation of graphite in argon: Spectroscopic investigations	SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY	2020	163				105743
7	**Nica, P**; Gurlui, S; Agop, M; Focsa, C	Oscillatory regimes of Langmuir probe current in femtosecond laser-produced plasmas: Experimental and theoretical investigations	APPLIED SURFACE SCIENCE	2019	481		125	132	
8	Ursu, C; **Nica, P**; Focsa, C	Excimer laser ablation of graphite: The enhancement of carbon dimer formation	APPLIED SURFACE SCIENCE	2018	456		717	725	
9	Ursu, C; **Nica, P**; Focsa, C; Agop, M	Fractal Method for Modeling the Peculiar Dynamics of Transient Carbon Plasma Generated by Excimer Laser Ablation in Vacuum	COMPLEXITY	2018					1814082
10	Focsa, C; Gurlui, S; **Nica, P**; Agop, M; Ziskind, M	Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum	APPLIED SURFACE SCIENCE	2017	424		299	309	
11	**Nica, P**; Gurlui, S; Osiac, M; Agop, M; Ziskind, M; Focsa, C	Investigation of femtosecond laser-produced plasma from various metallic targets using the Langmuir probe characteristic	PHYSICS OF PLASMAS	2017	24	10			103119
12	Irimiciuc, SA; Gurlui, S; Bulai, G; **Nica, P**; Agop, M; Focsa, C	Langmuir probe investigation of transient plasmas generated by femtosecond laser ablation of several metals: Influence of the target physical properties on the plume dynamics	APPLIED SURFACE SCIENCE	2017	417		108	118	
13	Irimiciuc, SA; Gurlui, S; **Nica, P**; Focsa, C; Agop, M	A compact non-differential approach for modeling laser ablation plasma dynamics	JOURNAL OF APPLIED PHYSICS	2017	121	8			83301
14	Nica, I; **Nica, PE**; Ghizdovat, V; Agop, M	New Mathematical Procedures in the Investigation of Biological Nanostructure Dynamics	2017 IEEE INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)	2017			97	100	
15	Andrian, S; Munteanu, B; Taraboanata, I; Negraia, D; Nica, PE; Stoleriu, S; Nica, I	Surface Roughness after Finishing and Polishing of a Restorative NanoComposite Material	2017 IEEE INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)	2017			101	104	

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
16	Irimiciuc, SA; Agop, M; **Nica, P**; Gurlui, S; Mihaileanu, D; Toma, S; Focsa, C	Dispersive effects in laser ablation plasmas	JAPANESE JOURNAL OF APPLIED PHYSICS	2014	53	11			116202
17	**Nica, PE**; Rusu, GB; Dragos, OG; Ursu, C	Effect of Excimer Laser Beam Spot Size on Carbon Laser-Produced Plasma Dynamics	IEEE TRANSACTIONS ON PLASMA SCIENCE	2014	42	10	2694	2695	
18	Ursu, C; **Nica, PE**	Diagnosis of carbon laser produced plasma by using an electrostatic energy analyzer	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2013	15	1-2	42	45	
19	**Nica, PE**; Agop, M; Gurlui, S; Bejinariu, C; Focsa, C	Characterization of Aluminum Laser Produced Plasma by Target Current Measurements	JAPANESE JOURNAL OF APPLIED PHYSICS	2012	51	10			106102
20	Agop, M; **Nica, P**; Niculescu, O; Dimitriu, DG	Experimental and Theoretical Investigations of the Negative Differential Resistance in a Discharge Plasma	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	2012	81	6			64502
21	Costan, A; Cimpoesu, RH; Ionita, I; Dima, A; Forna, N; **Nica, P**; Agop, M	Hydroxyapatite and PMMA Thin Films Synthesized by Pulsed Laser Deposition on Titanium Based Metallic Substrates	MATERIALE PLASTICE	2011	48	4	299	302	
22	Agop, M; **Nica, P**; Gurlui, S; Focsa, C; Magop, D; Borsos, Z	The chaotic atom model via a fractal approximation of motion	PHYSICA SCRIPTA	2011	84	4			45017
23	**Nica, P**; Agop, M; Miyamoto, S; Amano, S; Nagano, A; Inoue, T; Poll, E; Mochizuki, T	Multi-peak structure of the ion current in laser produced plasma	EUROPEAN PHYSICAL JOURNAL D	2010	60	2	317	323	
24	Casian-Botez, I; Agop, M; **Nica, P**; Paun, V; Muncelean u, GV	Conductive and Convective Types Behaviors at Nano-Time Scales	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2010	7	11	2271	2280	

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
25	Ursu, C; Pompilian, O; Gurlui, S; **Nica, P**; Agop, M; Dudeck, M; Focsa, C	Al2O3 ceramics under high-fluence irradiation: plasma plume dynamics through space- and time-resolved optical emission spectroscopy	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2010	101	1	153	159	
26	**Nica, P**; Agop, M; Gurlui, S; Focsa, C	Oscillatory Langmuir probe ion current in laser-produced plasma expansion	EPL	2010	89	6			65001
27	Agop, M; **Nica, PE**; Gurlui, S; Focsa, C; Paun, VP; Colotin, M	Implications of an extended fractal hydrodynamic model	EUROPEAN PHYSICAL JOURNAL D	2010	56	3	405	419	
28	Agop, M; **Nica, P**; Gurlui, S; Focsa, C	Fractal hydrodynamic model of high-fluence laser ablation plasma expansion	INTERNATIONAL SYMPOSIUM ON HIGH POWER LASER ABLATION 2010	2010	1278		612	+	
29	Niculescu, O; **Nica, P**; Gurlui, S; Forna, N; Casian-Botez, I; Ionita, I; Constantin, B; Badarau, G	Experimental Investigations of Polymer Plasma Laser Ablation	MATERIALE PLASTICE	2009	46	3	336	338	
30	Colotin, M; Pompilian, GO; **Nica, P**; Gurlui, S; Paun, V; Agop, M	Fractal Transport Phenomena through the Scale Relativity Model	ACTA PHYSICA POLONICA A	2009	116	2	157	164	
31	**Nica, P**; Vizureanu, P; Agop, M; Gurlui, S; Focsa, C; Forna, N; Ioannou, PD; Borsos, Z	Experimental and Theoretical Aspects of Aluminum Expanding Laser Plasma	JAPANESE JOURNAL OF APPLIED PHYSICS	2009	48	6			66001
32	Agop, M; Chicos, L; **Nica, P**	Transport phenomena in nanostructures and non-differentiable space-time	CHAOS SOLITONS & FRACTALS	2009	40	2	803	814	
33	Colotin, M; Niculescu, O; Bibire, TD; Gottlieb, I; **Nica, P**; Agop, M	FRACTAL FLUIDS OF CONDUCTIVE TYPE BEHAVIOR THROUGH SCALE RELATIVITY THEORY	ROMANIAN REPORTS IN PHYSICS	2009	61	3	387	394	

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
34	Ioannou, PD; **Nica, P**; Paun, V; Vizureanu, P; Agop, M	Wave-particle duality through an extended model of the scale relativity theory	PHYSICA SCRIPTA	2008	78	6			651 01
35	Agop, M; **Nica, PE;** Ioannou, PD; Antici, A; Paun, VP	Fractal model of the atom and some properties of the matter through an extended model of scale relativity	EUROPEAN PHYSICAL JOURNAL D	2008	49	2	239	248	
36	Gurlui, S; Agop, M; **Nica, P**; Ziskind, M; Focsa, C	Experimental and theoretical investigations of a laser-produced aluminum plasma	PHYSICAL REVIEW E	2008	78	2			264 05
37	Agop, M; Harabagiu, A; **Nica, P**	Wave-particle duality through a hydrodynamic model of the fractal space-time theory	ACTA PHYSICA POLONICA A	2008	113	6	157 1	158 8	
38	Agop, M; **Nica, P;** Gurlui, S; Strat, G; Strat, M	Fractal space-time and ball lightening as a self-organizing process in laser produced plasma	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2008	10	6	152 6	152 9	
39	Antici, A; Paun, VP; **Nica, P**; Agop, M	Fractal model of the atom in the hydrodynamic approach of scale relativity theory	REVISTA DE CHIMIE	2008	59	4	472	477	
40	Agop, M; Nica, P; Girtu, M	On the vacuum status in Weyl-Dirac theory	GENERAL RELATIVITY AND GRAVITATION	2008	40	1	35	55	
41	Gottlieb, I; **Nica, P**; Agop, M	Scale relativity theory for an arbitrary fractal dimension	ROMANIAN REPORTS IN PHYSICS	2008	60	3	443	451	
42	Ioannou, PD; **Nica, P**; Agop, M	THE INCREASE OF THE ELECTRICAL CONDUCTANCE IN NANOSTRUCTURES: A THEORETICAL APPROACH	UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS	2008	70	4	67	74	
43	Agop, M; **Nica, P;** Ioannou, PD; Malandraki, O; Gavanas-Pahomi, I	El Naschie's epsilon((infinity)) space-time, hydrodynamic model of scale relativity theory and some applications	CHAOS SOLITONS & FRACTALS	2007	34	5	170 4	172 3	

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
44	**Nica, P;** Miyamoto, S; Amano, S; Inoue, T; Shimoura, A; Mochizuki, T	Space-resolved soft X-ray emission from laser produced lithium plasma	PHYSICS LETTERS A	2007	370	2	154	157	
45	Inoue, T; Okino, H; **Nica, PE**; Amano, S; Miyamoto, S; Mochizuki, T	Xe capillary target for laser-plasma extreme ultraviolet source	REVIEW OF SCIENTIFIC INSTRUMENTS	2007	78	10			105105
46	Nagano, A; Inoue, T; **Nica, PE**; Amano, S; Miyamoto, S; Mochizuki, T	Extreme ultraviolet source using a forced recombination process in lithium plasma generated by a pulsed laser	APPLIED PHYSICS LETTERS	2007	90	15			151502
47	Agop, M; Vizureanu, P; **Nica, P**; Mamut, E; Ioannou, PD	Hydrodynamic model of scale relativity theory for nanomaterials. (II) the anomaly of the heat transfer in nanofluids by means of a differential negative thermal conductance	METALURGIA INTERNATIONAL	2007	12	3	24	29	
48	**Nica, PE;** Miyamoto, S; Amano, S; Inoue, T; Shimoura, A; Kaku, K; Mochizuki, T	Soft x-ray spectra from laser heated lithium targets	APPLIED PHYSICS LETTERS	2006	89	4			41501
49	Inoue, T; **Nica, PE;** Kaku, K; Shimoura, A; Amano, S; Miyamoto, S; Mochizuki, T	Studies on cryogenic Xe capillary jet target for laser-produced plasma EUV-light source	EMERGING LITHOGRAPHIC TECHNOLOGIES X, PTS 1 AND 2	2006	6151		U1516	U1524	61513U
50	Miyamoto, S; Amano, S; Inoue, T; **Nica, PE;** Shimoura, A; Kaku, K; Sekioka, T; Mochizuki, T	EUV source developments on laser-produced plasmas using cryogenic Xe and lithium new scheme target	EMERGING LITHOGRAPHIC TECHNOLOGIES X, PTS 1 AND 2	2006	6151		U1501	U1510	61513S
51	Agop, M; Ioannou, PD; **Nica, P**	Superconductivity by means of the subquantum medium coherence	JOURNAL OF MATHEMATICAL PHYSICS	2005	46	6			62110

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
52	Agop, M; Ioannou, PD; **Nica, P;** Galusca, G; Stefan, M	El Naschie's coherence on the subquantum medium	CHAOS SOLITONS & FRACTALS	2005	23	5	1497	1509	
53	Agop, M; Ioannou, PD; Luchian, D; **Nica, P;** Radu, C; Condurache, D	El Naschie's cantorian strings and dendritic morphogenesis	CHAOS SOLITONS & FRACTALS	2004	21	3	515	536	
54	Agop, M; Ioannou, P; Luchian, D; **Nica, P;** Radu, C	Dendritic morphogenesis by means of a fractal	MATERIALS TRANSACTIONS	2004	45	5	1528	1534	
55	Agop, M; Ioannou, PD; **Nica, P**	El Naschie's cantorian strings and duality in Weyl-Dirac theory	CHAOS SOLITONS & FRACTALS	2004	19	5	1057	1070	
56	Agop, M; Ioannou, P; **Nica, P**; Radu, C; Alexandru, A; Vizureanu, P	Fractal characteristics of the solidification process	MATERIALS TRANSACTIONS	2004	45	3	972	975	
57	Agop, M; Ioannou, PD; **Nica, P**; Buzea, CG; Jarcau, M	epsilon((infinity)) Cantorian space-time, polarization gravitational field and van der Waals-type forces	CHAOS SOLITONS & FRACTALS	2003	18	1	1	16	
58	Agop, M; Ioammou, PD; Nica, P	On the Weyl-Dirac duality by means of a Cantorian fractal string	PHYSICS LETTERS A	2003	314	1-2	131	139	
59	Agop, M; Ioannou, PD; Buzea, CG; **Nica, P**	Hydrodynamic formulation of scale relativity theory and unified superconductivity by means of a fractal string	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS	2003	390	1	37	55	
60	Agop, M; Ioannou, PD; Buzea, C; **Nica, P**	Cantorian epsilon((infinity)) space-time, a hydrodynamical model and unified superconductivity	CHAOS SOLITONS & FRACTALS	2003	16	2	321	338	
61	Agop, M; Strat, M; Strat, G; **Nica, P**	Cantorian epsilon((infinity)) structures in discharge plasma double layers. Theoretical and experimental aspects of basic processes	CHAOS SOLITONS & FRACTALS	2002	13	7	1541	1569	
62	Agop, M; Ioannou, PD; Coman, P; Ciobanu, B; **Nica, P**	Cantorian E-(infinity) space-time and generalized superconductivity	CHAOS SOLITONS & FRACTALS	2001	12	11	1947	1982	

	Autori	Titlu	Revistă	An	Vol	Nr	Pag		Nr. Art.
63	Agop, M; Buzea, CG; **Nica, P**	Cantorian E-(infinity) space-time, de Broglie and the pair-breaking time of high-temperature superconductors	CHAOS SOLITONS & FRACTALS	2001	12	3	571	577	
64	Agop, M; Buzea, CG; **Nica, P**	Cantorian E(infinity) space-time and the energy gap of high temperature superconductors	CHAOS SOLITONS & FRACTALS	2001	12	4	735	740	
65	Agop, M; **Nica, P**; Carcea, I	Thermal oscillation modes of the solid-liquid interface solidification and melting	MATERIALS TRANSACTIONS JIM	2001	42	2	197	206	
66	Agop, M; Buzea, CG; **Nica, P**	The Cantorian structure of the background magnetic field and high temperature superconductors	CHAOS SOLITONS & FRACTALS	2000	11	15	2561	2569	
67	Agop, M; Buzea, CG; **Nica, P**	Local gravitoelectromagnetic effects on a superconductor	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS	2000	339	2	120	128	
68	Agop, M; **Nica, P**	The wave-particle duality in the Weyl-Dirac theory	CLASSICAL AND QUANTUM GRAVITY	2000	17	18	3627	3644	
69	Agop, M; Buzea, CG; **Nica, P**	Ginzburg-Landau equation and the temperature dependence of the superconducting state parameters	PHYSICA C	2000	336	1-2	123	130	
70	Agop, M**; Nica, P**	Some physical implications of the Weyl-Dirac theory	CLASSICAL AND QUANTUM GRAVITY	1999	16	10	3367	3380	
71	Agop, M; **Nica, P**	On the Cantorian structure of time in relativity	CHAOS SOLITONS & FRACTALS	1999	10	8	1295	1302	

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. C. Ursu, A. Bele, G. Rusu, M. Dascalu, B. Ciubotaru, **P. Nica**, G. Stiubianu, Hybrid thermoregulatory nanocomposites developed for personal thermal comfort and camouflage, oral, "21st International Conference on Plasma Physics and Applications (Bucuresti, 1-5 Septembrie 2025), Internationala "National Institute for Laser, Plasma and Radiation Physics, Magurele, Ilfov, Romania, https://cespc.inflpr.ro/ pg. 161 ISSN 2344-0481
2. Bogdan-George Rusu, Cristian Ursu, Daniela Ionita, Victor Oancea, Mihaela Olaru, Gabriel Ababei, **Petru Nica**, FLUORESCENT CARBON NANOPARTICLES SUSPENSION GENERATED BY PULSED LASER ABLATION IN ETHANOL, International Conference Progress in Organic and Macromolecular Compounds 29th Edition, Iasi, Romania, 4-6 October 2023, https://icmpp.ro/macroiasi2023/index.php, Proceedings, pg. 50-52, ISSN 2810 – 2126 | ISSN – L 2810 – 2126
3. Cristian Ursu, Bogdan-George Rusu, Andrei Dascalu, Mihaela Olaru, Victor Oancea, **Petru Nica**, A COMBINED APPROACH FOR THE DEPOSITION HIGH QUALITY AND POROUS ZnO FILMS WITH APPLICATION IN PHOTOCATALYSIS, International Conference Progress in Organic and Macromolecular Compounds 29th Edition, Iasi, Romania, 4-6 October 2023, https://icmpp.ro/macroiasi2023/index.php Proceedings, pg. 83-85 ISSN 2810 – 2126 | ISSN – L 2810 – 2126
4. **P. Nica**, C. Ursu, G. Rusu, C. Focsa, Characterization of carbon ions in excimer laser-generated plasma using the electrostatic energy analyzer, "19th INTERNATIONAL CONFERENCE ON PLASMA PHYSICS AND APPLICATIONS, CPPA 2021, August 31-September 3, 2021, Magurele-Bucharest, Romania"., https://cppa2021.inflpr.ro/
5. **P. Nica**, C. Ursu, G. Rusu, C. Focsa, Current oscillations recorded by an electrostatic energy analyzer from a Carbon laser-produced plasma, "19th INTERNATIONAL CONFERENCEON PLASMA PHYSICS AND APPLICATIONS, CPPA 2021, August 31-September 3, 2021 Magurele-Bucharest, Romania", https://cppa2021.inflpr.ro/

J. Invenţii.

K. Contracte de cercetare/granturi.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
03.03.2026

Prof.univ.dr.ing. Nica Petru-Edward

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Asandului Gabriel**

A. Teza de doctorat.

Institutie: Universitatea „Alexandru Ioan Cuza din Iași"
Perioada: 1998-2004
Indrumator: Prof. Univ.dr. Dumitru Șandru
Titlul tezei: A.C.Cuza-omul politic
Titlul: Doctor în Istorie

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

Gabriel Asandului, Teodora Ghivirigă, *The condition of the intellectuals elite in Communist Romania. A historical perspective*, în Stephen Palmer (ed.), *The intellectual. A Phenomenom in Multidimensional Perspectives*, Inter-disciplinary Press, Oxford, 2011, ISBN 978-1-84888-003-0, pp. 33-42;

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

1. Gabriel Asandului, *Gheorghe Asachi-scurtă schiță biografică*, în Neculai Eugen Seghedin (editor), *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023, pp. 15-50 ;
2. Gabriel Asandului*, Şcolile de cadre ale ale PCR din teritoriu în primii ani postbelici (1945-1948)*, pp. 47-72, în Sorin Radu (coordonator), *Învăţământul de partid şi şcolile de cadre în România comunistă. Cadru naţional şi regional*, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2014;
3. Mihai Dorin**, Gabriel Asandului,** *Universitatea Tehnică „Gheorghe Asachi" din Iaşi (1813-2013). 200 de ani de la înfiinţarea Şcolii de Inginerie*, ediţie îngrijită de Daniel Condurache, Neculai Eugen Seghedin, Irina Lungu, Cuvânt-înainte de Ion Giurmă, Editura Politehnium, Iaşi, 2013, pp.95-150, ISBN: 978-973-621-420-2.
4. **Gabriel Asandului**, *Istoria construcţiei europene*, Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-424-0.
5. Mihai Dorin, Gabriel Asandului, Horia Chiriac, *Europa în trei timpi,* Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-421-9, pp. 84-181.
6. Gabriel Asandului, *Studiu introductiv*, în A.C.Cuza- *Alte scrieri*, Editura Tipo Moldova, Iaşi, 2012, pp. I-XXXV (Colecţia Opera Omnia).
7. **Gabriel Asandului,** *Ştiinţele aplicate*, în *Universitatea din Iaşi (1860-2010). Facultăţi. Profesori. Şcoli ştiinţifice*, coordonator Gheorghe Iacob, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2011, pp. 554-568, ISBN 978-973-703-589-9 ;
8. Dorin Mihai, Neagu Cornelia**, Gabriel Asandului,** Elena Hodorogea**,** *Politehnica ieşeană in dinamica modernizarii României*, Editura Stef, Iaşi, 2006, pp. 109-174, ISBN 978-973-8961-67-8 (finanţată prin contract CNCSIS), 316p.
9. **Gabriel Asandului**, *Istoria evreilor din România (1866-1938)***,** Editura Institutului European, Iaşi, 2003, ISBN 973-611-128-8, 91p.

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

1. Cloşcă Constantin**, Gabriel Asandului,** *Istoria Dreptului românesc*, Editura Fundaţiei Academice „Danubius", Galaţi, 2002, **ISBN 973-8409-12-8**, 288 p.
2. Cloşcă Constantin, **Gabriel Asandului,** *Administraţia publică în istoria românilor,* Editura Universitatea Ecologică " D.Cantemir", Iaşi, 2000, ISBN 973-9038-07-7**, 230 p.**

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.Gabriel Asandului, *Party education in communist Romania in the first two post-war decades (1945-1965),* in „Bulgarian Historical Review ", nr. 3/4/2021, pp.196-226, ISSN 2815-2905 (online), 0204-8906 (print), WOS: 000743379800007, Scopus, EBSCOHost, CEEOL

- Articole publicate în volume indexate ISI Proceedings

- Articole indexate în baze de date internaţionale

1.Gabriel Asandului, *Unificarea cadministrativă a României interbelice (1918-1925)* , „Carpica", LI/2022, CEEOL, pp. 364-386.

2. Gabriel Asandului, *The romanian local administration from the little union to the first world war (1859-1918)*, Buletinul Institutului Politehnic din Iași, vol. 68(72), nr.1-4/2022, pp. 9-22, Secția Socio-umane.

3. **Gabriel Asandului**, *Administraţia românească în timpul celui de-al doilea război mondial*, „Carpica", nr. XLVIII/2019, pp. 246-271;

4. **Gabriel Asandului,** *Pages from the history of the Polytehnic Institute of Iasi.The '40s-'50s*, Buletinul Institutului Politehnic "Gheorghe Asachi" din Iasi**,** nr.3-4/2019, pp. 9-21.

5. **Gabriel Asandului**, *From the School of Electricity to the school of Electrical Engineering of Iaşi* (1910-1937), Buletinul Institutului Politehnic "Gheorghe Asachi" din Iasi**,** nr.2/2017, pp. 9-16;

6. Gabriel Asandului, *A.C.Cuza-profesor la Universitatea din Iaşi*, în Anuarul Institutului de Istorie „A.D. Xenopol", tomLXII/2015.

7. **Gabriel Asandului**, *Party studies in Communist Romania. The Superior School of Social Sciences "Andrei Aleksandrovici Zhdanov" (1948-1958)*, Anuarul Institutului de Istorie „G. Bariţiu" din Cluj-Napoca, tom LII/2013. pp. 145-164.

8. **Gabriel Asandului,** *Învăţământul de partid în România comunistă. De la Universitatea muncitorească la Şcoala Superioară de Partid „Ştefan Gheorghiu" (1945-1966)*, în Anuarul Institutului de Istorie „A.D.Xenopol", Iaşi, tom XLIX, 2012, pp. 189-204.

9.**Gabriel Asandului**, *The institution of marriage in old romanian law*, în „Acta Universitatis Danubius. Juridica", 1/2009, pp. 128-134, ISSN: 1844-8062, EISSN: 2065-3891;

10. **Gabriel Asandului***, Mişcările studenţeşti de la Universitatea ieşeană, în perioada interbelică***,** în Anuarul Institutului de Istorie „A.D.Xenopol ", vol. XLIII- XLIV, Editura Academiei, Iaşi, 2006-2007, ISSN 0074-039X, pp. 253-273;

11. **Gabriel Asandului,** *Reforma agrară din 1945***,** în „Lucrări ştiinţifice. Seria Agronomie", vol 50, nr. 3, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2007, pp. 41- 46, ISSN-1454-7414;

12. **Gabriel Asandului**, *Învăţământul superior agricol ieşean în perioada interbelică*, „Lucrări ştiinţifice. Seria Agronomie", vol 49, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2006, p. 457-462, ISSN-1454-.

13. **Gabriel Asandului***, Destine parlamentare: A.C.Cuza,* în Anuarul Institutului de istorie „A. D. Xenopol", tom XLII, 2005, Iaşi, Ed. Academiei Române, 2005, pp. 235-256, ISSN 0074-039X.

14. **Gabriel Asandului,** *Reforma agrară din 1921***,** în „Lucrări ştiinţifice. Seria Agronomie", vol 48, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2005, pp.578-587, ISSN-1454-7414.
15. **L. Asandului, Gabriel Asandului**, *Statistica personalului românesc din întreprinderile din România interbelică*, **,** în „Lucrări ştiinţifice. Seria Agronomie", vol 48, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2005, ISSN 1454-7414
16. **Gabriel Asandului ,** *Economia şi învăţământul în gândirea lui A. C. Cuza***, în Anuarul Institutului de istorie „**A. D. Xenopol", tom XXXIX-XL, 2002-2003, Iaşi, Ed. Academiei Române, 2003, pp. 319-337, ISSN 0074-039X.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

1. Gabriel Asandului, *Engineering Education at Alma Mater Iassiensis*, în „Noesis", 2010, vol. XXXV, pp. 237-256.
2. **Gabriel Asandului,** *Învăţământul politehnic românesc în anii interbelici***,** în „Studii şi cercetări din domeniul ştiinţelor socio-umane", vol.XVI., Editura Argonaut, Cluj-Napoca 2007, ISBN 973-7710-88-6, ISSN 1584-9457, pp. 161-168.
3. **Gabriel Asandului***, Chestiunea evreiască în viziunea lui A.C.Cuza*, în „Studii şi cercetări din domeniul ştiinţelor socio-umane",Cluj-Napoca, vol.XV./2006, pp. 139-146, ISBN 973-7710-88-6, ISSN 1584-9457 **;**
4. **Gabriel Asandului**, *L'enseignement de juifs de Roumanie jusqu'en 1940***,** în Buletinul Institutului Politehnic. Seria Ştiinţe socio-umane, tom XLVIII (LII), Fasc. 1-4, Iaşi, 2002, pp. 9-14, ISSN 1224-5860
5. **Gabriel Asandului,** *La Roumanie entre le 23 Août 1944 et 30 Décembre 1947*, în Buletinul Institutului Politehnic, Iaşi*,* Tomul XLV, Fasc. 1-4, Ştiinţe socio-umane, 1999, pp. 55-58, ISSN 1224-5860 .
6. **Cloşcă Constantin, Gabriel Asandului,** *Le révisionnisme et le problème de la Bessarabie dans la période entre les deux guerres mondiales,* în Buletinul Institutului Politehnic, Iaşi, Tomul XLV, Fasc. 1-4, Ştiinţe socio-umane, 1999, pp. 21- 27, ISSN 1224-5860 **.**
7. Constantin Cloşcă, Gabriel Asandului, *Viaţa culturală a satului românesc în perioada dintre cele două războaie mondiale*, în Anuarul Universităţii „Petre Andrei", Tom VIII, Iaşi, 1998**.**
8. Constantin Cloşcă, Gabriel Asandului, *Statutul administrativ din zona românească ocupată de trupele sovietice în perioada aprilie-august 1944,* în Anuarul Universităţii „Petre Andrei", Tom VII, Iaşi, 1997. 9 p.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Gabriel Asandului, *Rolul administrației în procesul de rusificare a Basarabiei*, în Gabriel Asandului, Mihai Dorin (coord.), *Uniunea Europeană și vecinătatea estică*, pp. 11-38, Editura Politehnium, Iași, 2015;
2. **Gabriel Asandului,** *From School of Electricity to Electrical Engineering (1910-1937),* Proceedings of the 3-RD Symposium on the History of Electrical Engineering and of tertiary-level Engineering Education, Iaşi, România, 2010, pp. 33-37;
3. **Gabriel Asandului**, *Intelectualii români sub regimul comunist*, în Omagiu Profesorului Ioan Scurtu, vol. II, Casa Editorială Demiurg, Iaşi, 2010, pp. 366- 378;

J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

Membru în colectiv

1.Proiect ROSE nr. 83/SGU/CI/I – Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TUIASI (REMEDIUM), 2018-2021; Expert-formator; director- prof.univ.dr. ing. Neculai Eugen Seghedin ;

2. Project Title: Les fondements historiques et l' actualité du project Européen", 2012-2015

Reference: 529538-LLP-2012-RO-AJM-MO

Lifelong Learning Programme-Call for Proposals (EAC/27/11) Jean Monnet Programme: Key Activity 1 (Director- Conf. dr. Mihai Dorin) ;

*3. . Proiectul de cercetare educaţională Red Aris Investigadora, nr. 2005-1472/001-001, Abandonul şcolar şi dificultăţi de învăţare în învăţământul vocaţional", **programul Socrates**, acţiunea 6.1.2. şi 6.2., octombrie 2005-octombrie 2007, (Director – Lect. univ. dr. Tudor Stanciu) ;*

*4. Un proiect european în dinamica modernizării României: evoluţia învăţământului tehnic superior ieşean, Tema 20/anexa I-a, cod **CNCSIS 591**, nr.contract 27637/14.03.2005, aprilie 2005-aprilie 2007, (Director-Conf. univ.dr. Mihai Dorin).*

L. Premii, distincţii.

1.Premiul AGIR 2023, pentru lucrarea *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023.

2. Premiul Academiei Române, 2025, Secțiunea Istoria Științei și tehnicii, pentru lucrarea *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023

M. Alte realizări semnificative.

Data, 14.09.2025

Semnătură,

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență

Inginerie Chimică

Numele şi prenumele: **Romaniuc Simona-Luiza** (nume anetrior **Druță**)

A. Teza de doctorat.
Institutie: Universitatea „Alexandru Ioan Cuza" din Iași
Perioada: 2004-2008
Indrumator: Prof. dr. Oproiu Vasile
Titlul tezei: Structuri de tip lift natural pe fibratele tangent și cotangent
Titlul: Doctor în matematică

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
Druță-Romaniuc, S. L., *Bochner curvature of cotangent bundles with natural diagonal Kähler structures*, Chapter in: *New Horizons in Differential Geometry and its Related Fields*, Editors Toshiaki Adachi and Hideya Hashimoto, World Scientific 2022, ISBN 978-981-124-809-2,151-176, https://doi.org/10.1142/9789811248108_0010

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.
C1. Romaniuc, S. L., *Elemente de analiză matematică*, 280 pagini, Editura Performantica, Iași 2022, ISBN 978-606-685-953-0.
C2. Negoescu, N., Bejan, C. L., **Druță-Romaniuc, S. L.,** *Special Types of Metrics*, 201 pagini, 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.
E1. **Romaniuc, S. L.,** *Exerciții de analiză matematică*, Culegere 250 pagini, 2021, https://sites.google.com/view/sromaniuc/culegere-am
E2. **Romaniuc, S. L.,** *Îndrumar pentru seminarii de algebră liniară,* 63 pagini, 2020, https://sites.google.com/view/sromaniuc/indrumar-al

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

- Articole publicate în reviste cotate ISI
F1. Druţă-Romaniuc, S. L., Hrețcanu, C. E., Gezer, A., New structures of golden type on the tangent bundle, Turkish Journal of Mathematics 49 (2025), 6, 850-871, https://doi.org/10.55730/1300-0098.3629
F2. Druţă – Romaniuc, S. L., Hrețcanu, C. E., *On the geometry of semi-invariant submanifolds in (α, p)-golden Riemannian manifolds,* Mathematics, 12 (23) (2024), Art. No. 3735, 16 pp., https://doi.org/10.3390/math12233735
F3. Druţă – Romaniuc, S. L., *Quasi-statistical Schouten–van Kampen connections on the tangent bundle*, Mathematics 11 (2023), 4614, 20 pp., https://doi.org/10.3390/math11224614
F4. Druţă – Romaniuc, S. L., Inoguchi, J. I., Munteanu, M. I., *Killing slant magnetic curves in the 3-dimensional Heisenberg group* Nil_3, International Journal of Geometric Methods in Modern Physics, 6 (2023) 2350094 (28 pp.), https://doi.org/10.1142/S0219887823500949

F5. Druţă – Romaniuc, S. L., *General natural α-structures parallel with respect to the Shouten-Van Kampen connection on the tangent bundle*, Mediterranean Journal of Mathematics, 19 (2022), 195, 21 pp., https://doi.org/10.1007/s00009-022-02093-4
F6. Bejan, C. L., Druţă – Romaniuc, S. L., *Magnetic curves on cotangent bundles edowed with the Riemann extension,* Colloquium Mathematicum, 168 (2022), 47-58, https://doi.org/10.4064/cm7924-12-2020
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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.

I1. 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, Zbl 07708634, https://doi.org/10.1142/9789811206696_0005

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J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

Proiect TD-158/2007, finanțat de CNCSIS, Universitatea „Alexandru Ioan Cuza” din Iaşi,
Titlul : *Structuri de tip lift natural pe fibratele tangent şi cotangent,*
Valoare: 21250 lei
Perioada: 1.10 2007- 30.10.2008.

Membru în colectiv

1.Bursier Postdoc (membru în echipa de beneficiari)
Proiect POSDRU/89/1.5/S/49944, Universitatea „Al. I. Cuza” din Iaşi,
Titlul proiectului: *Dezvoltarea capacităţii de inovare și cresterea impactului cercetării prin programe post-doctorale*.
Manager de proiect prof. dr. Dumitru Luca
http://postdoc-uaic.ro/index.php?page=beneficiari;
Tema de cercetare: *Structuri de tip lift natural pe fibratele tangent, cotangent, tangent în sfere și aplicații în magnetostatică,* îndrumător științific conf. dr. Marian-Ioan Munteanu
Perioada: iulie 2010 - martie 2013.

2. Membru Grant ET Nr. 5871/2006, 2007, CEEX, Universitatea „Al. I. Cuza” din Iaşi,
Titlul: *F-structuri pe varietăţi diferentiabile şi proprietăţi de biarmonicitate*,
Director de proiect : conf. dr. Oniciuc Cezar
Membri : Balmuș Adina, Fetcu Dorel, Munteanu Marian-Ioan,
Druță Simona-Luiza (căs. Romaniuc),
Valoare : 85.000 LEI
Perioada: 2006-2007

3. Membru Grant AT Nr. 191/2006, CNCSIS, Universitatea „Al. I. Cuza” din Iaşi,
Titlul : *Condiția Palais-Smale și tehnici de reducere pentru aplicații biarmonice,*

Director de proiect: conf. dr. Oniciuc Cezar
Membri: Balmuș Adina, Druță Simona-Luiza (căs. Romaniuc)
Valoare: 15.000 LEI
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4. Membru Grant A Nr. 1463/2005, CNCSIS, Universitatea „Al. I. Cuza” din Iaşi,
Titlul: *Noi structuri geometrice pe varietăţi riemanniene şi complexe,*
Director de proiect: prof. dr. Oproiu Vasile
Membri : Druță Simona-Luiza (căs. Romaniuc),
Neculai Papaghiuc, Oniciuc Cezar, Munteanu Marian-Ioan, Balmuș Adina

L. Premii, distincţii.
Premii PN-II-RU-PRECISI pentru articolele F7, F12-F16, F18, F20, F28.

M. Alte realizări semnificative.

Data,
26.02.2026

Semnătură,

Lista de lucrări

Numele şi prenumele: **KLOETZER LENUȚA**

A.Teza de doctorat.

"Cercetări privind separarea acizilor carboxilici prin extracție sinergetică" (2011, conducător științific prof. dr.ing. Dan Cașcaval)

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

1. L. Kloetzer, SSC. Rao, B. Kuo - Ambulatory capsule tests for assessment of GI ransit and pressure, în GI Motility Testing:A Laboratory and Office Handbook, eds.HP Parkman, RW McCallum, SSC Rao, 121-130, 2011, SLACK INC. , NJ, USA.

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

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4. A. Carlescu, L. Kloetzer, A. I. Galaction, D. Cascaval - *Extractia butanolului din lichide de fermentatie*, Buletinul Institutului Politehnic din Iasi, 48 (4), 19-35, 2012.
5. L. Kloetzer, R. Rotaru, A. I. Galaction, D. Caşcaval - *Influence of process conditions on reactive extraction of carboxylic acids obtained by succinic fermentatio*n, Buletinul Institutului Politehnic Din Iasi, 47 (2), 85-99, 2011.
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G. Lucrări ştiinţifice publicate în volumele conferinţelor.

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2. M. Poștaru, L. Kloetzer, A.I. Galaction, A.C. Blaga, D. Cașcaval, *Selective pertraction of carboxylic acids obtained by P. acidipropionici fermentation*, International Scientific Conference PERMEA, 15-19 septembrie 2013, Varșovia, Polonia.
3. M. Poştaru, L. Kloetzer, A. Cârlescu, A. C. Blaga, A.I. Galaction, D. Caşcaval - *La séparation sélective des acides carboxyliques obtenus par la fermentation actinobacillus succinogenes à l'aide de la pertraction facilité*, Le 7éme Colloque Franco-Roumain De Chimie Appliquée - CoFrRoCa, Bacău, România, 27-29 iunie 2012.
4. A. Cârlescu, A. C. Blaga, M. Poştaru, M. Turnea, L. Kloetzer, A. I. Galaction, D. Caşcaval - *Le transfert de masse interfaciale dans l'extraction réactive directe de l'acide propionique en suspension de Propionibacterium acidipropionici*, Le 7éme Colloque Franco-Roumain De Chimie Appliquée -CoFrRoCa, Bacău, România, 27-29 iunie 2012.
5. A. Cârlescu, L.Kloetzer - *Extracția reactivă a acidului propionic din lichidele de fermentație simulate*, Conferința Națională de Bioinginerie pentru studenți și tineri cercetători, ed. XV, Iași, Romania, pp. 87-91, 2012.
6. A. Butnaru, L.Kloetzer - *Influența polarității solventului în extracția reactivă a acidului folic. Mecanismul extracției reactive*, Conferința Națională de Bioinginerie pentru studenți și tineri cercetători, ed. XIV, Iași, Romania, pp.13-19, 2011.

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8. D. Cascaval, A. I. Galaction, A. C. Blaga, L. Kloetzer - *Could be used pertraction for increasing the antibiotics activity? Case study: gentamicins separation*, Proceedings of the conference PERMEA 2010, Tatransk´e Matliare, Slovacia, pp. 520-530, 2010.
9. A. C. Blaga, L. Kloetzer, A. I. Galaction, D. Cascaval - *Separation of amino acids from their mixture by liquid membrane*, Proceedings of the conference PERMEA 2010, Tatransk´e Matliare, Slovacia, pp. 292-230, 2010.
10. L. Kloetzer, A. I. Galaction, D. Cascaval - *Utilization of phase modifier for enhancing the reactive extraction efficiency of vitamins*, Advancements of Medical bioengineering and informatics, Proceedings of the international conference E-Health and Bioengineering, Constanta, Romania, pp. 96-102, 2009.
11. L. Kloetzer, A. I. Galaction, D. Cascaval - *Separarea selectivă a acizilor carboxilici rezultați din fermentație citrică prin pertracție facilitată,* Zilele Facultatii de Inginerie Chimica si Protectia Mediului, ed. V - „Materiale și procese inovative", Iasi, Romania, pp. 304-31, 2008.

J. Invenții

1. D. Caşcaval, A.I. Galaction, L. Kloetzer, A.C. Blaga - *Procedeu de separare a benzilmetilaminei*, RO 130694 B1, 2020.

K. Contracte de cercetare.

1. Crearea unei game inovative de biscuiți pentru PALIBO CREME SRL, nr. contract 742/30.07.2025, Cod SMIS 338021, responsabil partener TUIASI.
2. Valorisation of biomass and safe productions" – Ingenium Research Grant, 2024 -2025, responsabil partener TUIASI
3. Valorificarea superioara a biomasei prin recuperarea unor compusi valorosi (BIOEXTR), PN-III-P1-1.1-TE-2021-0153, membru.
4. Sisteme hibride fermentatie/reactie enzimatica-pertractie sinergica pentru productia de compusi chimici cu aplicatii farmaceutice, cosmetice si alimentare, PN III PCE, nr.6 /2017, membru.
5. Microscale downstream processing toolbox for screening and process development (MICROTOOLS), Contract ERA-IB nr. 6-002/2013, membru.
6. Dezvoltarea unor biocatalizatori noi pentru obţinerea economică a unor sintoni chirali (SYNBIOCAT), PN-II-PT-PCCA-2011-3.1-1268, membru.
7. Separarea avansata prin pertractie (extractie prin membrane lichide) a compusilor de biosinteza cu utilizari medicale, alimentare si cosmetice - prioritate in contextul actual al biotehnologiei albe, Grant PNCDI 2 - Idei: cod 317, membru.

L. Premii, distincţii.

- Medalia de aur la EUROINVENT, Iasi, 2023, 2018, 2017, 2015, 2011.
- Medalia de argint la EUROINVENT, Iasi, 2025.
- „Premiul pentru tânărul cercetător cu cele mai bune performanțe în cercetarea ştiinţifică", Universitatea Tehnică "Gheorghe Asachi" din Iași, 2013.
- Medalia de aur INVENTICA, Iasi, 2013, 2016.
- Medalia de aur la National book Salon - EUROINVENT, Iasi, 2012.
- Premiul II pentru lucrarea realizată în cadrul proiectului POSDRU/57/1.3/S/17884 "Specializarea personalului didactic universitar pentru funcţia de supervizor de practică tehnologică şi de cercetare", Iași, România, 2012.
- Premiul I la Conferința Națională de Bioinginerie pentru Studenți și Tineri Cercetători, Iași, 2012.

- Premiul III la Simpozionul Național de Bioinginerie Medicală pentru Studenți și Tineri Cercetători, Iași, 2010.
- Medalia de aur la EUROINVENT, Iasi, 2009.
- Premiul I la Sesiunea Științifică Studențească, Facultatea de Inginerie și Protecția Mediului, Iasi, 2009.

Conf. univ. dr. bioing. Lenuța Kloetzer

20.02.2026



Lista de lucrări în domeniul de studii universitare de licenţă

Numele şi prenumele: **Mariana Mantu**

A. Teza de doctorat., ***Functiile dialogului in opera lui I.L. Caragiale*** **(domeniul filologie)**

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. ***Arta Dialogului in opera lui I.L.Caragiale-***2006, Iasi, Editura Cermi, acreditata CNCSIS din 2001, ISBN (13) 978-973-667-196-8, 206 pag(publicarea tezei de doctorat) ;

2. ***Practical English for Technical Universities***, 2006, Editura *Cermi*, acreditata CNCSIS din 2001, Iasi, ISBN (13) 978-973-667-204-0, 208 pag;

3. ***English for Metallurgy***-2006, Editura *Cermi*, acreditata CNCSIS din 2001, Iasi, ISBN (13) 978-973-667-202-6, 200 pag

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. ***Despre fenomenul kitsch,*** *Caietele Linguatek, 2019, platforma CEEOL.*
2. ***The Lyricism of Drama –Tennessee Williams*****,** Buletinul Universitatii Tehnice « Gh. Asachi », Iasi, 2016, citata pe ***Google Scholar*** ;
3. ***The language of Gestures in the Romanian Films of the New Wave ,*** *Buletinul Institutului Politehnic Iasi, vol. 63, 2017, p. 31-38*
4. ***Paradigme ale ambiguitatii in filmele romanesti ale Noului Val,*** *Caietele Linguatek, Platforma CEEOL, 2018*

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

1. ***Challenges of Learning English as a Second Language***, Buletinul Universitatii Tehnice « Gh. Asachi «, Iasi, 2016 ;
2. ***Edgar Allan Poe and Oscar Wilde, Some Comparative Notes: The Fall of House of Usher and The Picture of Dorian Gray*****,** Buletinul Universitatii Tehnice «Gh. Asachi«, Iasi, 2015;
3. ***Emily Dickinson: The Woman in White - A Portrait,*** Buletinul Universităţiit Tehnice “Gh.Asachi”, Iaşi, 2013 ;
4. ***Repere Caragialene****,* involumul Simpozionului National cu participare internationala editia a X-a: *Dimitrie Cantemir si vocatia eurpoeana a gindirii romanesti*,Ed. Aers Longa, Iasi, 2013;

5. ***An Essay on Literary Translation***, Buletinul Universităţiit ehnice „Gh. Asachi”, Iaşi, tom LVIII (LXII), fasc 1-2, 2012 ;
6. ***Idioms in Literary Translation***, Buletinul Universităţii Tehnice „Gh. Asachi”, Iaşi, tom LVIII (LXII), fasc 3-4, 2012 ;
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8. ***Testing in Teaching-Learning Practice*****,** Buletinul Universităţii tehnice „Gh. Asachi”, Iaşi, tom LVI (LX), fasc 1, 2010 ;
9. ***Publicistica si corespondenta : pragmatica si joc dialogic,*** Analele Universitatii” Al.I. Cuza”, Iasi, 2008, Analele Stiintifice ale Universitatii « Al.I.Cuza », tom LII-LIII, 2006-2007 ;
10. ***Some aspects regarding non-verbal communication with reference to the theatre,*** Buletinul Universitatii Tehnice ”Gh.Asachi”, Iasi, 2007;
11. ***The Development of Education in Moldavia at the Beginnings of the XIX th Century***, tom LII L(VI), Buletinul Universitatii ”Gh.Asachi”, Iasi, 2007**;**
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13. ***I.L. Caragiale :poezia sau spaţiul scenic minimal***, Analele stiinţifice ale Universităţii ”Al. I. Cuza”, Iaşi,2007 ;
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16. ***A Human Vocation: the Dialogue***, Buletinul Universitaţii Tehnice “Gh.Asachi”, Iaşi, tom XLIX (LIII), fasc 1-4, 2003 ;
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18. ***Dostoievski: Vocile subteranei***, Analele ştiinţifice ale Universităţii „Al.I.Cuza”, Iaşi, tom XLIII-XLIV, 1998 ;
19. ***Cronotopul ”subteranei” în opera lui Dostoievski*****, Analele** Ştiinţifice ale Universităţii „Al. I. Cuza”, Iaşi, 1997 ;

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3. ***Westernul,o imagine simbol a culturii americane,*** in *vol. Diversitate interculturala - Cultura si societate* , (coord. M. Rusu), vol. II, volum publicat sub egida Academiei Române, Filiala Iași - Institutul de Cercetări Economice și Sociale, ”Gh. Zane”, Ed. Ars Longa, Iasi, pp.105-108, ISBN : 978-973-148-254-5*,* 2017*;*
4. ***Noul val in cinematografiile rusa si romaneasca”*****i n v**olumul *Language, Culture and Change* VIII (Coord. Luminita Cocarta *et al*), Iasi, 2017, Ed. Universitatii “Al.I.Cuza” Iasi, pp.67-77, ISBN: 978-606-714-352-2*Significances of gestures in the Romanian films of the New Wave” –BuletinulUniv. « Gh.Asachi », vol.63/60, nr.1. Pg.31-39,* 2017 **;**

5. ***Despre discursul cinematografic*****,** in Vol. Conferintei internationale *Discurs si comunicare interactionala*, Iasi, Ed. Politehnium, 2016 ;
6. ***Nikita Mihalkov, creatorul de atmosfera*** , in Volumul Conferintei ştiinţifice internaţionale, ed. A VII- a, 20 mai 2016, « Creativitate si personalitate, Manifestari creative in societate si educatie », Iasi, ed. Ars Longa, 2016 ;
7. ***A Step Outside : the Identity Theme in Sandra Cisneros « The House on Mango Street »***, , *in Language, Culture and Change*, in Volumul Conferintei Internationale *Education, research and developmentin the Global World*, EdituraUniv. "Al. Cuza" Iasi, 2016 ;
8. ***Schiță de portret: Nikita Mihalkov***, *în Limbaje aplicate în mediul academic*, Ed. Performantica, Iasi, 2015 ;
9. ***Reconciliation of Artistic Languages within Theatrical Performance,*** în vol*. Language Culture and Change, VI, Reconciliation Policies and Practices in the Global World,*Ed. Universitatii « Al. I. Cuza », Iasi, 2015 ;
10. ***Arta in turnul de fildes****,* in vol. colectiv. *Etic si estetic. Modalitati interpretative, contraste si controverse, vol. I,* Ed. *Ars longa*, Iasi, 2015 ;
11. ***Captivi intre doua lumi. Sana Krasikov, Repatriatii***, in vol.col., *Etic si estetic. Modalitati interpretative, contraste si controverse, vol. I,* Ed. *Ars longa*, Iasi, 2015 ;
12. ***Engleza americana si(sau) engleza britanica****,* in vol. colectiv *Lucrari stiintifice. Eseuri. Articole*, Ed. *Pim*, Iasi, 2015 ;
13. ***Portretul din scrisori,*** *în vol. Artă și personalitate***,** Iasi, ed. Ars Longa, 2014 ***Repere Caragialene****,* involumul Simpozionului National cu participare internationala editia a X-a: *Dimitrie Cantemir si vocatia eurpoeana a gindirii romanesti,*Ed. Aers Longa, Iasi, 2013;
14. ***Translation beyond borders,*** in Volumul Conferintei internationale „Educatie-Profesionalizare-Creatie in Societatea Cunoasterii", 2013;

J.

K. Invenţii.

L. Contracte de cercetare/granturi.

1. CEEX 171/2006, Sisteme expert pentru comanda sistemelor termice, 2006, Cod PT4, Materiale si tehnologii avansate, Numărul Propunerii: 1846, 2006-2008, 30 membri, conducator prof.univ.dr.ing. Vizureanu Petrica
2. PNII INOVARE, CONTRACT DE CERCETARE 113/2007, Tehnologia pentru sudo brazarea structurilor duplex din oţel de construcţie protejat cu straturi de zinc, 2007, 40 membri, conducator conf.dr.ing. Rusu Ioan
3. CEEX 173/2006, Echipament de metalizare prevăzut cu sistem Fuzzy Logic pentru comanda şi controlul procesului de pulverizare termică, 2006-2007, Arii tematice S/T Cod PT 4, Materiale si tehnologii avansate, 41 membri, conducator prof.univ.dr.ing. Baciu Constatin
4. CEEX 180/2006, Tehnologia de fabricaţie a componentelor auto uşoare (lagăre, cuzineţi, ax, bucşe, etc.) din semifabricate bimetalice obţinute din fază lichida, 2006, Proiect de Cercetare Dezvoltare, 180/2006; Arii tematice S/T Cod PT 4, Materiale si tehnologii avansate, 40 membri, conducator prof.univ.dr.ing. Baciu Constatin
5. CEEX 179/2006, Tehnologia de fabricaţie a membranelor arc disc pentru ambreiaje auto, prin tratamente termomecanice controlate pe linii tehnologice automatizate de călire cambrată, 2006, Proiect de Cercetare Dezvoltare,

179/2006, Arii tematice S/T Cod PT 4, Materiale si tehnologii avansate, 39 membri, conducator prof.univ.dr.ing. Baciu Constatin

6. CEEX 7/2005, Straturi de tip barieră termică pentru pistoanele motoarelor cu ardere internă, 2005, Tipul Proiectului: Proiecte de cercetare-dezvoltare complexe, 7/2005, Cod PT4, Materiale si tehnologii avansate, 39 membri, conducator prof.univ.dr.ing. Baciu Constatin
7. CEEX/2005, Cercetări privind realizarea noii tehnologii de obţinere a sculelor de deformare plastică la rece tip ştanţe, matriţe, poansoane, dornuri de tragere, scule de laminare la rece extrudare şi organelor de maşini supuse la uzare tip tije, axe, arbori, supape de presiune, nuca pivot prin borocarbovanadizare rapidă controlată electrotermic, 2005, Tipul proiectului Proiecte de cercetare dezvoltare, Cod PT4, Materiale şi tehnologii avansate, CEEX8/2005, 44 membri, conducator prof.univ.dr.ing. Baciu Constatin

Data,

Lista de lucrări în domeniul de studii universitare de licență

Inginerie Chimică

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./

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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
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(***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



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licenţă

INGINERIA SUBSTANȚELOR ANORGANICE ȘI PROTECȚIA MEDIULUI

Numele şi prenumele: POPA DOINA MIHAELA

A. Teza de doctorat.

Instituţie: Universitatea "Al. I. Cuza" din Iaşi
Perioada: 1998-2005
Coordonator: prof.univ.dr. Maria CARPOV
Titlul tezei: *Relatia de comunicare interpersonală – contribuţii la o tipologie discursivă* (publicată la Ed. Junimea, Iași, 2006)
Titlul: Doctor în Filologie, Ordinului Ministrului Educaţiei şi Cercetării nr. 4199 din 30.05. 2005, cu distincţia Magna cum Laude

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

*L'Orientation antreprenoriale des étudiants et le rôle de l'université***,** (volum colectiv, român /francez /italian) Coautor: cap. IV pp. 123-152, PGV Edition, Grenoble, France, 2006, 210 p., ISBN 2-86561-325-9

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

- **Doina Mihaela POPA,** *La description chez Balzac,* Iasi, Ed. Stef, 2019, 132 pag., ISBN : 978-606-028-097-2
- **Doina Mihaela POPA,** *Communiquer en français II, Architecture et Génie Civil,* manual, Iasi, Ed. Performantica, 2018, 300 pag. ISBN: 978-606-685-046-9
- **Doina Mihaela POPA,** *Communiquer en français,* manual, Iasi, Ed. Stef, 2017, 225 pag., ISBN: 978-606-575-786-8
- **Doina Mihaela POPA,** Daniela Lucia ENE**,** *Mic dicţionar explicativ de comunicare român- francez-englez,* Iaşi, Ed. Stef, 2015, 230 p., ISBN: 978-606-575-445-4
- **Doina Mihaela POPA,** Daniela Lucia ENE**,** *Mic dicţionar explicativ de comunicare francez-englez-român,* Iaşi, Ed. Stef, 2014, 228 pag., ISBN: 978-606-575-421-8
- **Doina Mihaela POPA,** *Les mots-clés de la communication appliquée, petit dictionnaire explicatif français-roumain de communication appliquée*, Iaşi, Ed. Performantica, 2013, 166 p., ISBN 978-606-685-001-8
- **Doina Mihaela POPA***, Cours pratique de langue française,* manual, Iasi, Ed. Performantica, 2013, 188 pag., ISBN: 978-606-685-046-9
- **Doina Mihaela POPA***, Le français en 30 leçons (Sections économiques)*, manual, Ed. Performantica, Iasi, 2007, 185 p., ISBN 978-973-730-352-3
- **Doina Mihaela POPA,** *Comunicare&Comunicare organizaţională*, Iasi, Ed. Performantica, 2008, 194 p., ISBN:978-973-730-533-6

- **Doina Mihaela POPA,** *Elemente de psihologia comunicării,* Ed. Stef-Institutul European, Iasi, 2006, ISBN 973-611-413-9
- **Doina Mihaela POPA,** *Relaţia de comunicare interpersonală – contribuţii la o tipologie discursivă*, 2005, Ed. Junimea, Iasi, ISBN 973-37-1083-0
- **Doina Mihaela POPA** (coordonator), *La rencontre ou le moment zéro du narratif,* volum colectiv cu participare internationala, Iasi, Ed. Stef, 2016, ISBN: 978-606-575-592-5
- *Les cahiers Linguatek Nos.5-6/2019* volumul III : *Espace et langage*, 332 p., Iasi, Ed. Performantica, ISSN: 2559-7752 (coordonator)
- *Les Cahiers Linguatek No.1-2/2017,* volumul I : *Corps et Langage,* Iasi, Ed. Performantica, 2017, 340 pag., ISSN: 2559-7752 (coordonator)
- **Doina Mihaela POPA,** N.-M. Iftimie (coordonatori), *Relaţia identitate-alteritate şi stereotipurile socio-culturale,* Iaşi, Ed. Performantica, 2015, ISBN 978-0-606-685-278-4
- **Doina Mihaela POPA** (coordonator), *Comunicare interculturală*, Ed. Junimea, Iasi, 2006, 282 p., ISBN 973-37-1151-9
- **Doina Mihaela POPA** (traducător), *La science économique à un carrefour* - I.D.Adumitracesei *et al*. (traducător), Editura Junimea, Iasi, 2008, 152 p. ISBN 978-973-37-1266-4
- **Doina Mihaela POPA** (traducător), *Femeia invizibila sau despre invizibilitatea femeii in limbaj* - Anne Marie Houdebine, Ed.Universitătii «Al.I.Cuza » Iași, 1997, 135 p., ISBN 973-9149-78-2

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

- Doina Mihaela POPA, *Curs practic de limba franceză*, Rotaprint, UTI, Iași, 1996

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

- **Doina Mihaela POPA**, Manual limba franceza pt Constructii si Arhitectura + Glosar explicativ de termeni de specialitate, publicat in versiunea online, pe site-ul CLS : **http://limbistraine.tuiasi.ro/index.html**
- **Doina Mihaela POPA**, Manual in limba franceza pentru Hidrotehnica + Glosar explicativ de termeni de specialitate, versiunea online, publicat pe site-ul CLS : **http://limbistraine.tuiasi.ro/index.html**

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

- **Doina Mihaela POPA,** *About Emotion in Communication,* JRLS nr.17/2019 (Journal of Romanian Literary Studies), ISSN 2248-3004, (BDI: ERIH-PLUS etc).
- **Doina Mihaela POPA,** *Quelques aspects stylistiques chez Balzac,* in Buletinul Institutului Politehnic din Iasi, nr.3-4/2018, pp.33-41
- **Doina Mihaela POPA,** *Affectivity and Language*, pp. 193-198**,** in JRLS Nr.15/2018 (Journal of Romanian Literary Studies), ISSN 2248-3004, (BDI: ERIH-PLUS etc)
- **Doina Mihaela POPA,** *Ambiguïté temporelle dans les contes de fées,* in LES CAHIERS LINGUATEK No.5-6/2018, pp. 106-113, ISSN 2559-7752, ISSN-L 2559-7752, Ed. Performantica, Iaşi, 2018
- **Doina Mihaela POPA**, *The Psychotherapeutic Communication, between Perception and Empathy***,** pp. 203- 208**,** in JRLS Nr.13/2018 (Journal of Romanian Literary Studies), ISSN 2248-3004

- **Doina Mihaela POPA** *Décors et accessoires du luxe chez Balzac", in Buletinul Institutului Politehnic din Iaşi*, Tomul LXIII, Fasc. 3/ 2017, secţia "Stiinţe Socio-umane" (Indexat CEEOL, Fabula)
- **Doina Mihaela POPA, "**L'éloquence du silence: une étude psycholinguistique du silence dans la communication » in JRLS NO. 12 / 2017, pp. 700-706, ISSN: 2248-3004 (The issues of "Journal of Romanian Literary Studies" are included in the following International Databases: CEEOL, EBSCO-HOST, Global Impact Factor, Google Scholar, Academia.Edu, Researchgate.org.
- **Doina Mihaela POPA,** *Metafora corporală în psihoterapie,* in *Les Cahiers Linguatek* Nr. 1-2-2017, pp. 294-298, ISSN 2559-7752, ISSN-L 2559-7752, Ed. Performantica, Iaşi, 2017
- **Doina Mihaela POPA,** "New Communication: Personality, Identity, Language", in volumul coordonat de Iulian BOLDEA & Cornel Sigmirean, *Debating Globalization. Identity, Nation and Dialogue Section: Communication, Public Relations, Education Sciences ,* pp. 74-79, Ed. Arhipelag XXI Press, Tîrgu Mureș, e-ISBN: 978-606-8624-01-3, 2017 (Volum indexat ISI Web of Science de catre Clarivate Analytics).
- **Doina Mihaela POPA,** *"*Intersubjective Communication and Advertising*",* in Buletinul Institutului Politehnic din Iaşi, Tomul LXII, nr 4 / 2016, secţia "Stiinţe Socio-umane", pp. 15-22, Ed. Politehnium, Iasi
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- **Doina Mihaela POPA**, *« L'écriture sociale du vêtement dans le décor balzacien »*, in Revista B+ «*Meridian Critic»,* Universitatea « Stefan cel Mare » din Suceava*,* Nr.1/2015, pp. *55-66***, ISBN:** 978-973-666-457-1, Ed.Universitatii «Stefan cel Mare» din Suceava
- Daniela Lucia ENE, **Doina Mihaela POPA,** « *Communication et contexte dans la publicité »,*
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- **Doina Mihaela POPA,** *Communication et réception du discours publicitaire,* in Buletinul Stiintific al Universitatii « M. Kogalniceanu » Iasi, nr. 2/ pp. 117-127, Ed. Cugetarea, 2014, ISSN 1221-4876, indexat **BDI**, http://www.umk.ro/ro/buletin-stiintific-cercetare/numarul-curent/2345-doina-mihaela-popa-communication-et-reception-du-discours-publicitaire.html
- **Doina Mihaela POPA,** *« Le corps parlant entre nature et culture »,* in http://www.umk.ro/ro/buletin-stiintific-cercetare/numarul-curent/2154-doina-popa-le-corps-lparlantr-entre-nature-et-culture.html, 28 nov. 2013 si in Buletinul Stiintific Univ. « M. Kogalniceanu » Iasi, Vol.22, Nr.1 / 2013, pp. 93-106, Ed. Cugetarea, Iasi, ISSN 1221-4876, volum indexat **BDI**
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- **Doina Mihaela POPA,** *La pathologie de la communication: du signe au symptôme***,** in Anuarul Universitatii „Petre Andrei" Iasi, Ed. Lumen, cod CNCSIS 3, Tom 8/2011, pp.395-402, ISSN 2248-1079, volum indexat **BD**I Copernicus, 563 pag., www.edituralumen.ro

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- **Doina Mihaela POPA**, *Comunicarea aplicată şi transgresarea graniţelor simbolice în viziunea AT si NLP,* în Revista *Ethos,* nr.4/2012, Iaşi, Ed. Institutul European, cod CNCSIS 206, pp. 70-80, ISSN: 2246-9427, www.revistaethos.ro
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- **Doina Mihaela POPA, "***Metafora si structurarea identitatii in cadrul interactiunii mama-copil",* pp.30-48, în vol.colectiv *Ipostaze ale interactiunii* , Ed. Alma Mater, Bacau, 2004, 302 p., ISBN 973-8392-10-1
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- **Doina Mihaela POPA,** *L'Inconscient et la Publicité* **,** pp. 79-108, in volumul colectiv *Mécanismes et enjeux du Discours Publicitaire*, Edition&Impression Bouregrag, 332 p., Rabat, Maroc, 2009, ISBN 978-9954-1-9376-6, http://www.marocontact.com/imprimeurs/12901-edition-impression-bouregreg.html

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- **Doina Mihaela POPA,** «Interpersonal Communication and Attenuation of Language Distorsions», in vol. "Comunicarea interpersonala – Dialogul social", vol. I, Coord. M. Rusu, Editura Ars Longa, Iasi, 2018, pp.169-177, ISBN : 978-973-148-291-0
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- **Doina Mihaela POPA**, «*Corporalité et spatialité dans la communication analogique »* în vol. *Discourse and Communicative Interaction,* Ed. Politehnium, 2016, ISBN : 978-973-621-455-4, pp.569-581
- **Doina Mihaela POPA**, « *Figures du discours: la description »,* in vol. *Discourse and Communicative Interaction,* Ed. Politehnium, 2016, ISBN : 978-973-621-455-4, pp.103-116
- **Doina Mihaela POPA,** *Creativitate, personalitate şi limbaj metaforic,* în volumul «Creativitatea – Dimensiuni socio-filosofice », coord. Marinela Rusu, pp. 86-91, Iasi, Editura Ars Longa, 2016, ISBN : 978-973-148-233-0
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- **Doina Mihaela POPA,** *L'huître et son rocher: le personnage dans le décor romanesque balzacien*, in volumul colectiv I*,* "*Etic si estetic. Modalitati interpretative, contraste si controverse*", coordonator M. Rusu, Iasi, Editura « Ars Longa », 2015, pp. 278-287, ISBN : 978-973-148-205-7
- **Doina Mihaela POPA,** *Comunicare şi tipuri de relaţii interpersonale,* în vol. « Limbaje aplicate in mediul academic", coordonatori: Daniela Lucia Ene, Mioara Mocanu, Editura Performantica, Iaşi, 2014, ISBN: 978-606-685-235-7, pp. 200-216
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- **Doina Mihaela POPA,** *"Dinamicile atitudinale în comunicare şi toxicitatea limbajului",* in *Anuar de Limba şi Literatură, Tomul* V, 2006, Universitatea „Petre Andrei", Iaşi, Ed. Impakt, pp. 28-42, ISSN: 1584-8043
- **Doina Mihaela POPA,** *« Langage poétique féminin »,* în Tomul II al Anuarului Universităţii « Petre Andrei » Iaşi, 2002 pp.117-122, Editura Impakt, ISSN 1584-8043
- **Doina Mihaela POPA,** « Avatars de la féminité dans les contes », in vol.*Actes V*, Ed. Universitatii «Al.I.Cuza» Iasi, 1999, pp.41-44
- **Doina Mihaela POPA,** *« Le je/elle de Colette »,* în vol. *Actes III*, Ed. Universităţii « Al.I.Cuza » Iaşi, 1997, pp.208-213
- **Doina Mihaela POPA,** *« Madame de Sévigné: Lettres; langage féminin et communication intragénérique »* în *Actes II*, volum colectiv, Ed. Universitatii « Al.I.Cuza » - Iasi, 1996, pp. 74-79

J. Invenţii.

K. Contracte de cercetare/granturi.

- **Grant de cercetare post doctorală** în cadrul Proiectului european *Societatea Bazată pe Cunoaştere-Cercetări, Dezbateri, Perspective* POSDRU/89/ 1.5/ S/ 56815, 2012-2013, pe tema COMUNICARE APLICATĂ, bursă obținută prin concurs national (11.000 euro) in colaborare Academia Romana Filiala Iasi, Universitatea La Rochelle, Franta (1 iulie-1 august 2012 stagiu de cercetare /documentare) și Universitatea Alicante, Spania (24 august-24 sept. 2012 stagiu de cercetare/documentare)
- **Coordonator** al Proiectului european **Leonardo da Vinci** INNOV-MARK, 2006-2008, Nr. **RO/2006/PL97015/S,** obtinut prin competitie nationala de proiecte, derulat in parteneriat cu Universitatea Clermont-Ferrand, Franta (19.750 euro)
- **Co-Responsabil SCIPO_UNIV, Science et Poésie dans l'Univers(ité),** proiect în derulare, finanțat de **AUF**, 15.000 Euro, 2019-2020, CRU TUIASI (Centre de Réussite Universitaire) AUF 2019 / Universitatea Tehnică « Gheorghe Asachi » (**AVENANT no. 2 à la Convention AUF-ECO-535** du 29 mai 2017 entre l'Agence universitaire de la Francophonie et l'Université technique « Gheorghe Asachi » de Iași, Roumanie)

L. Alte realizări semnificative.

- **Doina Mihaela POPA,** *Emoție și comunicare,* lucrare prezentată la Simpozion Științific Internațional "Integralizarea domeniilor de educație artistică: repere teoretico-metodologice, provocări și perspective", 18-20 oct. / 2018, Bălți, Moldova
- **Doina Mihaela POPA, „***Les messages publicitaires et les restes diurnes",* comunicare la Conferinţa Internațională «*Une vie dans les signes»,* Université «Paris Descartes-Sorbonne», Franta, 1-2 dec. 2011
- **Doina Mihaela POPA, «***Communication analogique et codification culturelle des émotions* **»,** comunicare la Colocviul International "*Emotion, Cognition, Communication*", Universitatea Nicosia, Cipru, 23-26 iunie, 2011
- **Doina Mihaela POPA, «** *L'Inconscient et la Publicité »***,** comunicare la Conferinţa Internaţională *Mécanismes et enjeux du Discours Publicitaire*, martie 2009, Universitatea din Casablanca, Maroc
- **Doina Mihaela POPA, «***Psychanalyse et publicité »*, comunicare la Colloque International « *Dramaturgie et mises en scène de la publicité* », Valenciennes, Franta, 29-30 septembrie, 2006
- **Doina Mihaela POPA,** *Mythes de la féminité ou «les femmes sont des signes»* **-** comunicare la ***Colloque international ERCIF*** **«***Profane et sacré dans l'imaginaire du féminin* » Université « Michel de Montaigne III », Bordeaux, Franta, 1-3 iunie 2006
- **Doina Mihaela POPA, «** *L'amour maternel dans la poésie féminine »*, comunicare la *Congresul Academiei Romano-Americane*, University of Rochester, SUA, 6-9 august, 1998
- **Doina Mihaela POPA**, *New Communication: Personality, Identity, Language,* comunicare la The International Scientific Conference *Globalization, Intercultural Dialogue and National Identity,* Tg. Mures, Universitatea « Dimitrie Cantemir », 18-19 mai 2017
- **Doina Mihaela POPA, «** *L'Eloquence du silence », comunicare la CIEFT, XIII-e Colloque International d'Etudes Francophones SILENCE(S), Timisoara, 17-18 martie 2017*
- **Doina Mihaela POPA,** "*Eléments du discours poétique féminin»*, comunicare la *Colloque International des Sciences du Langage*, Suceava, România, octombrie,1997
- **Doina Mihaela POPA, "***Simetrie şi asimetrie în reprezentarea socială a femininului"*, comunicare la Seminarul Internaţional «*100 de ani de invatamant sociologic românesc»,* Universitatea *Al.I.Cuza,* Iaşi, 1997
- **Doina Mihaela POPA**, "*Discours féminin, discours masculin »*, comunicare la Colocviul International *Semiologia Culturii*, Universitatea « Gh. Bacovia » Bacau, Romania, nov. 1996

M. Alte realizări semnificative: Distinctia „LES PALMES ACADEMIQUES" , decernata de Ambasada Frantei – nov 2025

Data,
11.03. 2026

Semnătura,
Conf.univ.dr. Doina Mihaela Popa

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Dănăilă Vanda - Ligia**

A. Teza de doctorat.

Institutie: *Universitatea Tehnică "Gheorghe Asachi" din Iaşi"*
Perioada: 1992 -1999
Indrumator: Prof. dr. ing. Ioan Hopulele
Titlul tezei: Contribuţii privind tehnologia şi utilajul de deformare plastică prin metoda electrohidraulică
Titlul: Doctor în Ştiinţe Tehnice

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
Dănăilă, V. L. - Practical Geometry, LAP Lambert Academic Publishing, 110 pag., ISBN 978-3-659-19362-0, Saarbrücken, 2013

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

- Prună, L., Anghel, A. A., Dănăilă V. L., Slonovschi, A., Bazele desenului tehnic industrial, Ed. Performantica, 217 pag., ISBN 978-606-685-913-4, Iaşi, 2022
- Dănăilă, V. L. – Descriptive Geometry, Ed. PIM, 305 pag., ISBN 978-606-13-5249-4, Iaşi , 2019
- Dănăilă, V. L. – Infografică pentru desen tehnic, Ed. PIM, 230 pag., ISBN 978-606-13-3480-3, Iaşi, 2016
- Dănăilă, V. L., Anghel, A., Antonescu, I., Prună, L., Romanescu, C., Slonovschi, A. – Infografică. Aplicaţii în desenul tehnic industrial, Ed. PIM, 225 pag., ISBN 978-973-716-945-7, Iaşi, 2008
- Slonovschi, A., Anghel, A., Antonescu, I., Dănăilă, V. L., Prună, L., Romanescu, C. - Infografică. Îndrumar de laborator, Ed. PIM, 225 pag., ISBN 978-973-716-718-7, Iaşi, 2007
- Dănăilă, V. L., Anghel, A. – Descriptive Geometry, Ed. Tehnopress, 125 pag., ISBN (10) 973-702-345-5, ISBN (13) 978-973-702-345-5, Iaşi, 2006
- Anghel, A., Dănăilă, V. L. – Geometrie descriptivă, Ed. Performantica,125 pag., ISBN 973-7994-38-8, Iaşi, 2004
- Susan, M., Zaharia, L., Dănăilă, V. L. – Prelucrări plastice speciale, Ed. „Gh. Asachi", 214 pag., ISBN 973-8050-42-1, Iaşi, 2000
- Popa, C., Strobel, Gh., Onofrei, L., Romanescu, C., Anghel, A., Dănăilă, V. L., Antonescu, I., Prună – Desen tehnic. Desen industrial şi elemente pentru desenul de instalaţii, Ed. "Gh. Asachi", 420 pag., ISBN ISBN 973-9178-36-7, Iaşi, 1996

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

- Anghel, A., Dănăilă, V. L. – Geometrie descriptivă, Ed.AS'S, 215 pag., ISBN 973-9872-1-5, Iaşi, 2002
- Eftimescu, C., Dănăilă, V. L. – Technical Drawing for Constructions. Civilian Buildings, Rotaprint Universitatea Tehnică Iaşi, 100 pag., Iaşi, 1995
- Popa, C., Onofrei, L., Popa, I., Onofrei, V., colaboratori la traducere Silion, R., Dănăilă, V. L. – Descriptive Geometry - Course, Rotaprint Universitatea Tehnică Iaşi, 215 pag., Iaşi, 1992

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

Dănăilă, V. L. – Descriptive Geometry – platforma www.learning.tuiasi.ro, 250 pag.,2018

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

- Dănăilă, V. L., Ignătescu – Manea, I. – Influence of parameters of the electro-hydraulic deforming equipment on the geometric characteristics of workpiece - JIDEG Journal of Industrial Design and Engineering Graphics, no. 19 (Special issue), Cluj-Napoca, 4 pag., ISSN 1843-3766, 2024
- Ignătescu – Manea, I., Dănăilă, V. L. – Study on improving the teaching methods of graphic disciplines after the pandemic - JIDEG Journal of Industrial Design and Engineering Graphics, no. 19 (Special issue), Cluj-Napoca, 6 pag., ISSN 1843-3766, 2024
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- Dănăilă, V. L., Anghel, A. A. – Graphical and analytical approach of cylindrical – conical intersections, JIDEG Journal of Industrial Design and Engineering Graphics, no. 14 (Special issue), Craiova, 4 pag., ISSN 1843-3766, 2024, 2019
- Anghel, A. A., Dănăilă, V. L. – An educational application of graphic facilitation, JIDEG Journal of Industrial Design and Engineering Graphics, no. 14 (Special issue), Craiova, 4 pag, ISSN 1843-3766, 2024, 2019
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J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

Membru în colectiv

- Grant ROSE nr. 83/SGU/CI/I 2018 – 2021 „Reducerea abandonului şcolar al studenţilor din anul întâi prin activităţi remediale şi de consiliere în Centrul de Învăţare din cadrul TU IAŞI (REMEDIUM)”, director de contract Seghedin M. E., valoare 906138 RON, 2018 – 2021
- Contract CNFIS-FDI-2018-0006 „Acces direct prin Internaţionalizare Digitală – DIGITALin TUIASI”, director de contract Lungu I., valoare 10000 RON, 2018
- Grant CEEx, nr. 71/31.07.2006 - Sisteme inteligente şi metode pentru optimizarea, monitorizarea şi controlul reţelelor de termoficare – colectiv: Popescu, D., Ungureanu, D., Şerban, E., Dănăilă, V. L., beneficiar Ministerul Educaţiei, Cercetării şi Tineretului, director de contract Popescu D., valoare 20000 RON, 2006 - 2008
- Contract de cercetare, nr.1080B/7464-93-poz.B1-26/1993 - Utilizarea tehnicilor automate de calcul pentru pregătirea şi perfecţionarea studenţilor şi specialiştilor în probleme de organizare şi management în construcţii – colectiv: Popa, C., Romanescu, C., Anghel, A., Dănăilă, V. L., Ciobănaşu, G., Antonescu, I., Prună, L., beneficiar Ministerul Învăţământului şi Ştiinţei, director de contract Popa, C., valoare 200000 lei, 1993
- Contract de cercetare, nr. 5002C/7463-93-poz.C2-18/1993 - Utilizarea programelor de grafică asistată de calculator în pregătirea studenţilor la disciplina de geometrie descriptivă – colectiv: Popa, C., Romanescu, C., Anghel, A., Dănăilă, V. L., Ciobănaşu, G., Antonescu, I., Prună, L., beneficiar Ministerul Învăţământului şi Ştiinţei, director de contract Popa, C., valoare 200000 lei, 1993
- Contract de cercetare, nr. 11177/14.01.1990 - Cercetare privind realizarea unei electropompe AN 50.30.160 cu turaţie variabilă – colectiv: Matei, P., Rusu, I., Popescu, T., Dănăilă, V. L., beneficiar I. E. H. Dorohoi, director de contract Matei, P., 10000 lei, 1990

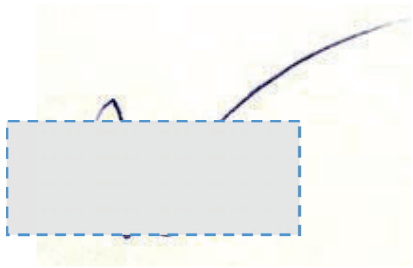
L. Premii, distincţii.

M. Alte realizări semnificative.

Data,

martie, 2026

Semnătură,



Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

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A. Teza de doctorat.

Instituție: *Universitatea Tehnică "Gheorghe Asachi" din Iași*
Perioada: 2000-2004
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Titlul tezei: ***Cercetări privind obţinerea unor nanoparticule metalice***

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

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

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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
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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

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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).
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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

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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,

Anexa II.7.9 - Liste de lucrari cadre didactice

Lista de lucrari in domeniul de studii universitare de licenta

Inginerie Chimica

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

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

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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

9. 2016. Gold medal 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

10. 2016. Special award from the Romanian Association for Unconventional Technologies, Bucharest Branch: 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

11. 2016. Premiu excelenta: Elena-Niculina Dragoi. Categorie: "Tanarul cercetator cu cele mai bune performance in cercetarea stiintifica". Universitatea Tehnica "Gh. Asachi", Iasi 8 noiembrie 2016

12. 2016. Gold medal: Elena-Niculina Drăgoi, Silvia Curteanu. System identification methodology based on Differential Evolution and Back-Propagation (SADE-NN-2). EUROINVENT. European exhibition of creativity and innovation, Iasi, 21 May 2016

13. 2016. Medalia "Gh. Asachi": Elena-Niculina Dragoi. Categorie: "Tanarul cercetator cu cele mai bune performance in cercetarea stiintifica". Universitatea Tehnica "Gh. Asachi", Iasi 8 noiembrie 2016

14. 2010. Second place: Elena-Niculina Drăgoi, Florin Leon, Silvia Curteanu, Camelia Mihăilescu. Neural networks developed with Differential Evolution algorithm applied to the study of some biological active systems. National Bioengineering Symposium, Ed. XIII, Iasi

M. Alte realizari semnificative.

Citari: 3146 Web of Science (fara autocitari); Hirsch: 33 (WoS), 40 (Google Scholar)

Membru Editorial Board: Alexandria Engineering Journal, Chemosphere (SI Editor), Materials (SI Editor), International Journal of Applied Science Research and Review, Juniper Online Journal Material Science

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

ORCID: https://orcid.org/0000-0001-5006-000X

ResearchGate: https://www.researchgate.net/profile/Elena_Dragoi

Google Scholar: https://scholar.google.ro/citations?user=jHgCcyIAAAAJ

Data,

11.03.2026

Semnatura,



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență

Numele şi prenumele: **Sibiescu Doina**

A. Teza de doctorat.

Instituție: Universitatea Tehnică "Gh. Asachi" Iaşi, Facultatea de Inginerie Chimica si Protectia Mediului „Cristofor Simionescu"
Perioada: 1990-1998
Indrumator: Prof. Ing. Tiberiu Golgotiu
Titlul tezei: Combinatii complexe utilizate in industria textila si influenta unor factori asupra stabilitatii lor
Titlul: DOCTOR in CHIMIE, ordinul MEN din anul 1999

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

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute de CNCSIS.

1. *Aplicații practice privind sinteza și caracterizarea compușilor anorganici*, Sutiman Daniel, Căilean Adrian, Vizitiu Mihaela, **Sibiescu Doina**, Apostolescu Gabriela, Ed. PIM, Iasi, **2018**, ISBN 978-606-13-4214-3

2. *Bioanorganica-lucrari practice*, **Sibiescu Doina**, Vizitiu Mihaela, ed. PIM – Iasi, **2016**, ISBN 978-606-13-3066-9

3. *Obținerea și studiul unor combinații complexe provenite de la compuși anorganici și organici. - Ed. a 2-a, îmbunătățită și adăugită*. **Sibiescu Doina**, - Iaşi : PIM, **2012**, ISBN 978-606-13-0854-5
4. *Lantanide si aplicatii* **, Sibiescu Doina**, Igor Cretescu, Cornel Stan, Ioan Rosca,, Universitatea Tehnica Gh.Asachi din Iasi, Performantica, Iasi, **2010**, ISBN:9789737307507
5. *Compuși cu caracter tanant obținuți prin prelucrarea unor deșeuri nereciclabile din industria titanului*, Marian Crudu, Boca Nicolae, Ioan Rosca, Aurelia Ioanid, Daniel Sutiman, Adrian Cailean, **Doina Sibiescu**, **2009** Pg.132 Ed.CERTEX, ISBN 978-973-1716-54-1
6., *Metode fizico-chimice aplicate în studiul combinațiilor complexe* Foca Neculae, **Sibiescu Doina**, Oancea Sevilia, Ed. TEHNOPRESS -Iaşi, **2006**, ISBN- 10: 973-702-405-2
7. *Chimie anorganică II: Elemente și compuși – aplicații pra*ctice, I. Roşca, A. Căilean, D. Sutiman, E. Ştefancu, N. Foca, D. Sibiescu, M. Vizitiu, G. Apostolescu, M. Nechita, Editura Tehnopress, Iaşi, , **2005,** ISBN 973-702-115-0
8. *Chimie Anorganică – caiet de laborator*, D. Sutiman, A. Căilean, E. Ştefancu, N. Foca, M. Vizitiu, **D. Sibiescu**, G. Apostolescu, M. Nechita, Editura Pim, Iaşi, , **2005**, 92pagini, ISBN 973-716-235-8
9.*Chimie anorganică I – aplicații practice*, I. Roşca, D. Sutiman, N. Foca, E. Ştefancu, A. Căilean, M. Vizitiu, **D**. **Sibiescu**, G. Apostolescu, M. Nechita, Editura Cermi, Iaşi, **2004** , 90 pagini, ISBN 973-667-076-7
10. *Oxidarea Compuşilor Anorganici la Tratarea Apelor***,** Ioan Roşca, Aurica Grec, **Doina Sibiescu**, Editura Gil Zalău, **2002,** 190 pagini**,** ISBN: 973-9469-23-4

10. *Introducere în Chimia Anorganică Modernă: Atom, Moleculă, Substanță;* Ioan Rosca, **Doina Sibiescu**, Gh. Doncean, D.M. Sutiman Editura Performantica **2000**, 390 pagini, ISBN/COD:973-8075-03-3

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

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

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

- Articole publicate în reviste cotate ISI

- Articole indexate în baze de date internaţionale

- *Bio-Textiles Against Arthropod Pests: A Review*, Nkemaja Dydimus Efeze, Eteme Enama Serge, Nsangou Abdouramane, **Doina Sibiescu**, Fabien Ebanda Betene, Pierre Marcel Anicet Noah, Hambaté Gomdjé Valery, Environmental Engineering and Management Journal, April **2024**, Vol. 23, No. 4, 729-734, doi.org/10.30638/eemj.2024.056
- *Analysis Of Bio-Based Antimicrobial Textiles: A Review,* Nsangou Abdouramane, **Doina Sibiescu,** Nkemaja Dydimus Efeze, Pierre Marcel Anicet Noah, Fabien Ebanda Betene, Hambaté Gomdjé Valery, Environmental Engineering and Management Journal June **2023**, Vol. 22, No. 6, 1137-1143, http://doi.org/10.30638/eemj.2023.094
- *New complex compounds with β-aminoisobutyric acid bidentate ligand for potential application in sustainable agriculture*, Sibiescu Doina, Carmen Mita, Mihaela Vizitiu, Environmental Engineering and Management Journal, April **2018**, 17(4):755-763, DOI: 10.30638/eemj.2018.076, ISSN: 1582-9596, Online/Electronic ISSN (eISSN): 1843-3707
- *New Coordination Compounds of Fe(III) with Ligand from N-hydroxysuccinimide, with Applications in Ecologic Leather Tanning Technologies*, Marian Crudu, Doina Sibiescu, Dana Gurau, Rodica Roxana Constantinescu, Ana Maria Vasilescu, Revista de Chimie, 66(7):958-962, **2015,** ISSN Online 2668-8212, ISSN Print: 1582-9049. ISSN-L: 1582-9049
- *Synthesis, Characterization and Toxicity Analysis of Some Mn(II), Co(II), Ni(II) and Cu(II) Complexes with N-p-Nitrobenzoyl-a-phenylalanine*, C. Rosca, V. Sunel, M. Cretu, C. Mita, N. Apostolescu, D. Mareci, C. Munteanu, I. Rusu, **D. Sibiescu**, C. Stan, D. Sutiman, August **2015**, Asian Journal of Chemistry, 27(12):4510-4516, DOI: 10.14233/ajchem. 2015.19206
- *Solar energy-powered phosphorescent composites for utilitarian and emergency lightning*, Stan C.S., Sibiescu D., Cretescu I., Journal of Environmental Protection and Ecology 13 (2), **2012**, 666-673, ISSN: 1311-5065; ISSN (ISSN-L): 1311-5065
- *Study of a New Coordination Compounds Based On Cr(II) And Succinimide In Aqueous Solution*; Mihaela Dana Tutulea (Anastasiu), Igor Cretescu, **Doina Sibiescu**, Ioan Rosca, Food and Environment Safety - Journal of Faculty of Food Engineering, Stefan cel Mare University – Suceava Volume XI, Issue 3 – **2012**, ISSN (Print): 2068-6609, ISSN (Online): 2559-6381
- *Highly luminescent polystyrene embedded CdSe quantum dots obtained through a modified colloidal synthesis route*, C. S. Stan, M.S. Secula, **D. Sibiescu**, Springer- Electronic Materials Lett. 8 (3), 275-281, **2012**, ISSN: 1738-8090, E-ISSN: 2093-6788

- M. D. Tutulea, I. Cretescu, **D. Sibiescu**, C. S. Stan, Electrochemical Sensors for Heavy Metal Ions Detection from Aqueous Solutions, Environmental Engineering and Management J. (11) 2, pp. 463-470, **2012**, Print ISSN: 1582-9596, Online/Electronic ISSN (eISSN): 1843-3707

- *Highly luminescent polystyrene embedded CdSe quantum dots obtained through a modified colloidal synthesis route*, C.S. Stan, M.S. Secula, **D. Sibiescu**, Electronic Material Letters, 8 (2), pp.325-329, **2012**. doi: 10.1007/s13391-012-1108-0

- New Gd(III) complexes based on Succinimide, N-hydroxysuccinimide, and N-hydroxyphtalimide with possible applications in optoelectronics and medical imaging, C. S. Stan, **D. Sibiescu**, I. Cretescu, C.Y. Rosca, D. Sutiman, M.D. Tutulea, I. Rosca, Journal of Optoelectronics and Advanced Materials, 5 (9), pp. 994-998, **2011**, Print ISSN: 1454-4164, Online ISSN (e-ISSN): 1841-7132

- *Phosphorescent Composites Based on Polyethyleneterephtalate*, C. S. Stan, **D. Sibiescu**, M.S. Secula, I. Rosca, I. Cretescu, Materiale Plastice, 47(3), pp. 324-327, **2010,** ISSN (Online): 2668-8220**,** ISSN (Print): 0025-5289, ISSN-L (Linking ISSN): 2668-8220
- *Enhancement of Separation Performances of a New Azoic Derivative from Industrial Water and the Possibility to Recover its Complex as Nanomaterial*, **Sibiescu Doina**, Tutulea Mihaela Dana, Cretescu Igor, Vizitiu Mihaela, Zavastin Daniela, Rosca Ioan, Environmental Engineering and Management Journal, 9 (1), 147-151, **2010**, DOI: 10.30638/eemj. 2010.022
- *The characterization and the synthesis of a new coordination compound for the removal of Cr(III) from wastewaters*; Spătărescu, **D. Sibiescu**, I. Roşca, Environmental Engineering and Management Journal, Vol. 9, No. 3, **2010**, p. 443-447, Print ISSN: 1582-9596, Online/Electronic ISSN (eISSN): 1843-3707
- *New Tanning Coordination Compounds Of Ti(Iv) And Zr(Iv) Part I – Compounds Of Ti(Iv) And Zr(Iv) With N-Hydroxysuccinimide As Ligand*, Marian Crudu, **Doina Sibiescu**, Daniel Sutiman, Adrian Cailean, Aurelia Ioanid, Nicolae Boca, Andra Crudu, **2010**, Revista de Pielarie Incaltaminte Volumul 10 Numărul 1 Pagini 3 Editor, The National Research & Development Institute for Textiles and Leather-INCDTP, **ISSN: 1583-4433**

- *Study On New Complex Compounds Of Ti(Iv) And Zr(Iv) In Aqueous Solutions: Synthesis, Stability And Application In Cleaner Technologies Of Natural Leather*; Roşca Ioan, Sutiman Daniel, Crudu Marian, **Sibiescu Doina**, Căilean Adrian, Vizitiu Mihaela, Apostolescu, Gabriela, Environmental Engineering & Management Journal (EEMJ), **2008**, 7, Issue 3, p. 241, doi: 10.30638/eemj.2008.046, ISSN 1582-9596596

- *Syntheses and study of some new coordination polymers Mn (II) with semiconductor properties*, I. Rosca, L. Oprea, D. Sutiman, A. Cailean, E. Neagu, M. Vizitiu, **D. Sibiescu**, G. Apostolescu, **2003**/1/1 Journal Ferroelectrics, Vol. 294 Nr. 1, Pg.155-164, Ed. Taylor & Francis, Print ISSN: 0015-0193 (pentru ediția tipărită),Online ISSN: 1563-5112

- *Coordination polymers of Fe(III) with ligands derived from dinaphthyl-, dinaphthylthio-, and dinaphythyldithiophosphinic acids*; Ioan Rosca, Daniel Sutiman, Mihaela Vizitiu, **Doina Sibiescu**, Adrian Cailean, Livia Oprea; Journal

Serb.Chem.Soc. 67(8–9)617–624(**2002**) Short communication; Print ISSN: 0352-5139, Online/Electronic ISSN: 1820-7421

- *Oxidation of Sodium Cyanide with Hydrogen Peroxide,* I. Rosca, M. Vizitiu, A. Cailean, D. Sutiman, **D. Sibiescu**, Journal of Balkan Ecology, **2001**, 4 (4), 451-454, ISSN**:** 1311-0527
- *PVC-alkaline earth metal carbonates mixtures. I. PVC thermodegradation in the presence of alkaline earth metal carbonates*, A. Cailean, I. Rosca, D. Sutiman, I. Cretescu, M. Vizitiu, **D. Sibiescu**, Materiale Plastice, **2001**, 38 (1), p.45-51, Online ISSN: 2668-8220, Print ISSN**:** 0025-5289
- *Synthesis and study of some new Co (II) polyphosphinates, determination of the kinetic parameters for the thermal decomposition reactions*, Autori I Roşca, N Foca, E Stefancu, D Sutiman, A Cailean, I Rusu, **D Sibiescu**, M Vizitiu, **1999/**7, Journal of thermal analysis and calorimetry, Volumul 56, Nr.1, pp 401-406, ISSN:(Print): 1388-6150, e-ISSN (Online): 1588-2926
- *Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II), and* UO^{2+}_2; I Rosca, D Sutiman, A Cailean, M Vizitiu, I Rusu, **D Sibiescu**, 1995/12/20, Journal Thermochimica acta, Volumul 269, Pagini, 295-305, Editor Elsevier, 20 December **1995**, https://doi.org/10.1016/0040-6031(95)02519-7

- Articole publicate în volume indexate ISI Proceedings

- Cochenille red dye decoloration andchromate reduction simultaneously in acid medium, **Doina Sibiescu**, Mihaela Vizitiu, Proc. SPIE 10977, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX, 10977, 0E January **2019**, DOI: 10.1117/12.2323631
- The study of New Complex Compounds of Ni (II) and Co (II) with N-hydroxysuccinimide and their potential applications as sensors, **D. Sibiescu**, M.D. Tutulea, C. Mita, C. S. Stan, I. Rosca, M. Vizitiu, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (SPIE), Vol. 7821 78210M-1,**2010,** ISSN0277-786X, doi: 10.1117/12.882909
- *Coordination polymers of the 3d block cations with semiconductor properties*; I. Rosca, I. Rusu, D. Sutiman, A. Cailean, **D. Sibiescu**, M. Vizitiu; **1999**/9/22 Conferință 10th International Symposium on Electrets (ISE 10). Proceedings (Cat. No. 99 CH36256),p. 557-560, Editor IEEE
-

G. Lucrări ştiinţifice publicate în reviste din străinătate.

- *Meta-Analysis of Pellet Manufacturing in Cameroon,* Mfourigam Issofa, Evariste Fongnzossie, Joseph Zobo Mfomo, Achille Bernard Biwole, Nsangou Abdouramane, **Doina Sibiescu**, September **2025**, Open Access Library Journal 12(9):14020, DOI: 10.4236/oalib.1114020, ISSN Online: 2333-9721, ISSN Print: 2333-9705
-

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

- *Bio-Insecticide Impact Of Sida Rhombifolia Fabric Treated With Aloe Vera On Wild Anopheles Gambiae,* Nangou Abdouramane, Eteme Enama Serge, Nkemaja

Dydimus Efeze, Betene Fabien Ebanda, ***Doina Sibiescu***, Noah Pierre Marcel Anicet, Mewoli Armeledwige, Betene Omgba Achille Desire, Ngum Lesley Ngum, Ndoum Anigue Ngoulouma Gaspard*,* Buletinul Institutului, Politehnic din Iaşi, Volumul 71 (75), Numărul 3, **2025**, Secţia CHIMIE şi INGINERIE CHIMICĂ, DOI: 10.5281/zenodo.17357350

- *Benchmarking On Aloe Vera Gel Extraction,* Abdouramane Nsangou, ***Doina Sibiescu***, Pierre Marcel Anicet Noah, Nkemaja Dydimus Efeze, Fabien Ebanda Betene, Benjamin Ii Castro Mpah Ekoume, Valery Hambaté Gomdjé, Buletinul Institutului, Politehnic din Iaşi, Volumul 69 (73), Numărul 1, **2023**, Secţia CHIMIE şi INGINERIE CHIMICĂ, DOI: 10.5281/zenodo.7767181
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- *Preliminary Study On The Interaction Of Skin Microbes In The Development Of Cosmetic And Textile Products: A Review*; Abdouramane Nsangou, **Doina Sibiescu**, Dydimus Nkemaja Efeze, Pierre Marcel Anicet Noah, Fabien Ebanda Betene And Valery Hambaté Gomdjé, Buletinul Institutului Politehnic din Iaşi, Secţia Chimie si Inginerie Chimică, Volumul 68 (72), Numărul 3, **2022**,10.5281/zenodo/7544341
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- *Quantum CdSe nanocrystals emitting in the green area of VIS spectrum for optical applications,* C. S. Stan, M. S. Secula, **D. Sibiescu**, I. Cretescu, I. Rosca, Annals Of "Dunarea De Jos" University Of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, Year I (XXXII), 32(2), pp. 22-25, **2009**, ISSN 1221-4531
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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

- *Design Of An Ecological Insecticidal Knitting*, Dydimus Efeze Nkemaja, Serge Eteme Enama, Abdouramane Nsangou, ***Doina Sibiescu***, Fabien Ebanda Betene, Pierre Marcel Anicet Noah, Achille Désiré Betenéomgba, *(PDF) Book of abstracts CORTEP 2024*. 19th Romanian Textiles and Leather Conference CORTEP 07- 09 November **2024**, Ed. PERFORMANTICA Iasi, ISBN 978-630-328-118-6
- *New complexes of silver (I) with N-hydroxy-succinimide*, Sibiescu Doina, Carmen Mita, Mihaela Vizitiu, Andra Manuela Crudu, December **2016**, SPIE - The International Society for Optical Engineering, Conference: Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies, **2016**, DOI: 10.1117/12.2243370
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J. Invenţii.

1. Compus de coordinație al FeIII și procedeu de obținere, RO126207 B1/**2016,** C.S. Stan, **D. Sibiescu**, L. Chirila, I. Rosca, R. Butnaru, M. Vizitiu, https://ro.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=ro_RO&FT=D&date=20110429&CC=RO&NR=126207A2&KC=A2

2.C.S. Procedeu de sinteză a nanocristalelor fluorescente de seleniură de cadmiu, RO127186, Stan, **D. Sibiescu**, I. Rosca, I. Cretescu, B1/**2016** https://ro.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=ro_RO&FT=D&date=20120330&CC=RO&NR=127186A2&KC=A2

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5. *The process of obtaining and use of a range of chemicals with low toxicity to (pre) tanning natural leather*, M Crudu, M Niculescu, V Deselnicu, D Sutiman, **D Sibiescu**, A Cailean, N Boca, Data publicării 2009 Editor, A/00941/17.11. **2009**

6.*Procedee de valorificare a unor catalizatori uzaţi şi echipament pentru dizolvarea solidelor,* Roşca Ioan, Sutiman Daniel, Foca Nicolae, Petrescu Stelian, Balasian Ion, Rosca Ion, **Sibiescu (Rosca) Doina**, Stan Cornel, Constantinescu Alexandru, Frunză Gheorghe, RO 118359 B1, **2003**

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K. Contracte de cercetare.

Director de grant/contract

- ***Noi tipuri de materiale nanocompozite cu aplicații în domeniu electronicii și senzorilor electrochimici*** (PN-II-ID-PCE 2008-1, Grant No. 721/**2009-2011**, Cod 357) COMISIA DE STIINTE INGINERESTI_STIINTA MATERIALELOR- director **Sibiescu Doina**, valoare 9.600.000 Ron

Membru în colectiv

- Optimizarea utilizării oxidanţilor la depoluarea apelor care conţin compuşi anorganici toxici", Contract nr. 495/2000, Tema B51, Beneficiar: ANSTI, Director: Prof. dr. ing. Ioan Roşca

L. Premii, distincţii.

Premii obtinute in **2010**:

1. ***Compozite fosforescente utilizabile în surse de iluminare cu eficienţă energetică ridicată, C. S. Stan, D. Sibiescu, I. Rosca, D.M. Tutulea, I. Cretescu, G. Carja, Medalia de argint, a 14-a Ediţie a Expoziţiei Internaţionale de Invenţii, Cercetare Ştiinţifică şi Tehnologii Noi, "INVENTIKA", 6-9 octombrie 2010, Bucureşti***.

2. ***Procedeu de obţinere a unor nanocristale fluorescente de seleniură de cadmiu utilizabile în optoelectronică, C. S. Stan, D. Sibiescu, L. Chirila, I. Cretescu, I. Rosca, Medalia de argint, a 14-a Ediţie a Expoziţiei Internaţionale de Invenţii, Cercetare Ştiinţifică şi Tehnologii Noi, "INVENTIKA", 6-9 octombrie 2010, Bucureşti***.

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4. Procedeu de obtinere si utilizare a unui produs tanant pentru (pre)tabacirea pieilor naturale, Crudu Marian Deselnicu Viorica Niculescu Mihaela Boca Nicolae Sutiman Daniel – Mircea, **Sibiescu Doina** Cailean Laurentiu Adrian; Medalie de bronz, INVENTIKA 2010, Bucuresti

5. ***Process of obtaining and using a tanning product for (pre)tanning natural leathers***, Crudu Marian, Deselnicu Viorica, Niculescu Mihaela, Boca Nicolae, Sutiman Daniel, **Sibiescu Doina,** Cailean Laurentiu-Adrian, Medalie de aur, EUROINVENT 2010 8-9 mai 2010, Iasi

Premii obtinute in **2009**:

1. ***Compozite fosforescente utilizabile în surse de iluminare cu eficienţă energetică ridicată, C. S. Stan, D. Sibiescu, I. Rosca, I. Cretescu, D. M. Tutulea, G. Carja, Medalie de aur, A 13-a Ediţie a Expoziţiei internaţionale de invenţii, cercetare ştiinţifică şi tehnologii noi – INVENTIK, 28-31 octombrie 2009, Bucureşti, România***.

2. ***Compuşi ai fierului (III) şi procedeu de preparare al acestora, D. Sibiescu, L. Chirila, I. Rosca, R. Butnaru, I. Cretescu, C. S. Stan, M. Vizitiu, Medalia de argint, A 13-a Ediţie a Expoziţiei internaţionale de invenţii, cercetare ştiinţifică şi tehnologii noi – INVENTIKA – 2009, ROMEXPO, 28-31 octombrie, Bucureşti***.

3. ***Compuşi ai fierului (III) şi procedeu de preparare a acestora, D. Sibiescu, L. Chirila, I. Rosca, R. Butnaru, I. Cretescu, C. S. Stan, M. Vizitiu, Medalia de argint, Expoziţia Internaţională Specializată – INFOINVENT – 2009, 24–27 noiembrie 2009, Chişinău***, Republica Moldova.

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Premii obtinute in **2008**:

1. ***New zirconium (IV) coordination compounds used in ecologic technologies of natural leather tannage***, Roşca Ioan, Crudu M., **Sibiescu D**., Sutiman D., Căilean A., Vizitiu M., Salonul Internaţional Jubiliar al Cercetării, Invenţiilor şi Transferului Tehnologic Inventica 2008, 14 – 24 mai 2008, Iaşi, România, Medalia de Aur.

2. ***Procedee de valorificare a unor catalizatori uzaţi şi echipament pentru dizolvarea solidelor,*** Roşca Ioan, Sutiman Daniel, Foca Nicolae, Petrescu Stelian, Balasian Ion, Rosca Ion, **Sibiescu (Rosca) Doina**, Stan Cornel, Constantinescu Alexandru, Frunză Gheorghe, INVENTIKA Salon Internaţional de invenţii şi tehnologii noi 7 – 11 Octombrie 2008, Bucureşti – România, Medalia de Aur.

Alte Realizări:

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Membru în comisii *rapoarte de cercetare*

Referent ştiinţific/ internaţional



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Data,
12.03.2026

Semnătură,

Anexa 3.1.8. Lista de lucrări cadre didactice

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-Iuliana 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-Iuliana 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-Iuliana 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-Iuliana 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-Iuliana 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-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), *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-Iuliana 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-Iuliana 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:



Anexa II.7.9 - Liste de lucrări cadre didactice

Nume Prenume: VIZITIU MIHAELA-AURELIA
Gradul didactic: Șef lucrări Dr. Chimist
Instituția unde este titular: Universitatea Tehnică ”Gh.Asachi” Iași
Facultatea: Inginerie Chimică și Protecția Mediului ”Cristofor Simionescu” Iași
Departamentul: Inginerie Chimică

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.. 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 5 ani

1. *Recent Advances in Anticorrosive Phosphate Pigments*, Nicolae Apostolescu, Corina Cernătescu, Claudia Cobzaru, Ramona Elena Tătaru-Fărmuș, **Mihaela Aurelia Vizitiu**, Gabriela Antoaneta Apostolescu, **Buletinul Institutului Politehnic din Iaşi, Volumul 66, Numărul 3, Chimie Şi Inginerie Chimică** (2020).

2. *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

3. *Thermochromic Materials*: *Oxides With Applications In Intelligent Technologies*, Gabriela Antoaneta Apostolescu, **Mihaela Aurelia Vizitiu**, Corina Cernătescu, Claudia Cobzaru, Ramona Elena Tătaru-Fărmuș, Nicolae Apostolescu, **Buletinul Institutului Politehnic Din Iaşi, Volumul 67; Numărul 1; Secţia Chimie Şi Inginerie Chimică** (2021)

4. C*urrent Trends In The Recovery Of Precious Metals From Electrical And Electronic Waste,* Nicolae Apostolescu, **Mihaela Aurelia Vizitiu**, Corina Cernătescu, Ramona Elena Tătaru Fărmuș, Claudia Cobzaru, and Gabriela Antoaneta Apostolescu*, **Buletinul Institutului Politehnic Din Iaşi, Volumul 68, Numărul 1; Secţia Chimie Şi Inginerie Chimică** (2022)

D. Lucrări publicate în ultimii 5 ani în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

1.

*Corresponding author; *e-mail*: ganto@ch.tuiasi.ro

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. *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:

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **CARJA GABRIELA**

A. Teza de doctorat.

Institutie: Universitatea Tehnică Gheorghe Asachi din Iași
Perioada: 1990-1996
Indrumator: Prof.dr. emerit Dimitriu Emil
Titlul tezei: Influenta proprietăţilor acido/bazice si texturale ale catalizatorilor microporoşi in condensarea aldehidelor - (1996).

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

1. Carja Gabriela, Kameshima Y., Nakajima A., Okada K., Nanostructured Assemblies of Mesoporous Matrices of Layered Double Hydroxides - Nanoparticles of Iron Oxides, capitol de carte in Mesoporous Materials: Properties, Preparation and Applications –- Nova Science Publisher, New York, USA, chapter 9, pp. 191-202, ISBN: 978-1-60741-051-5, editor Lynn T. Burness
2. Livia Elena Bibire, Gabriela Carja Composites Based on Polymers - Layered Double Hydroxides Anionic Clay, capitol de carte in Polymer Materials with Smart Properties - Nova Science Publishers, New York, USA, chapter 5, pp. 117-137, ISBN: 978-62808-877-9, editor Maria Bercea

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

1. Carja Gabriela, Mareci D., Aelenei N., Chimie-Fizica, Partea I, (260 p.), Ed. Cermi, ISBN 973-8188-57-1, Iasi 2003.
2. Carja Gabriela, Popa M.I., Mareci D., Aelenei N., Chimie Fizica – Partea a II-a Cinetica Chimica, (177 p.), Ed. Cermi, ISBN: 973-8188-56-3, 973-667-031-7, Iasi, 2004.
3. Irimia M., Carja Gabriela, Popa M.I., Aelenei N., Micro si Nanoparticule Polimere cu Aplicatii in Medicina, Ed. Cermi, ISBN: 973-667-059-7, Iasi 2004.
4. Ionescu Gh., Aelenei N., Popa M.I., Mareci D., Carja Gabriela, Aplicatii de calcul in chimia fizica, vol II, Cinetica, fenomene interfazice, electrochimie, (142 p.), Ed. Karro, ISBN 973-85946-0-X, Iasi 2002.
5. Carja Gabriela, Studii asupra influentei caracteristicilor fizico-chimice ale catalizatorilor microporosi in condensarea aldehidelor, (222 p.), Editura CERMI, ISBN 973-8188-50-4, Iasi 2003.
6. Ciobanu M.G., Ghenghea L.D., Carja Gabriela, Harja M., Materiale Avansate – Zeoliti cristalini microporosi de tip SAPO – n, (230 p.), Ed. Cermi, ISBN-10 973-667-192-5; ISBN-13 978-973-667-192-0, Iasi 2006.
7. Mareci D., Carja Gabriela, Aelenei N., Chimie Fizica, (180 p.), Ed. Ecozone, ISBN ISSN 978-973-7645-58-6, Iasi 2009.
8. Ciobanu M.G., Carja Gabriela, Biomateriale anorganice – Fundamente si aplicatii (230 p.)., Ed. Performantica, ISBN 978-973-730-746-0. Iasi 2010.
9. Carja G., Popa I., Chimie Fizica, Editura Academica 2022.
10. Carja G., Lisa G., Vizitiu M., Chimie Fizică prin Lucrări de laborator și aplicații, Editura Performantica, Iași, 2017.
11. G.Carja, D. Mareci, M.I.Popa CHIMIE FIZICA 580 pagini Ed. PIM **2014**, ISBN 978-606-13-1924-4.

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

1. Popa M.I., Aelenei N., Carja Gabriela, Lisa G., Mareci D., Chimie-Fizica-Indrumar de Laborator, Aplicatii de calcul in chimia fizica, vol II, Cinetica, fenomene interfazice, electrochimie (144 p). Ed. Karro, ISBN 973-85946-0-X, Iasi 2002.
2. Aelenei N., Popa M.I., Ionescu Gh., Mareci D., Chichirau Al., Carja Gabriela, Aplicatii de calcul in chimia-fizica, volumul I termodinamica chimica (323 p), Ed. Corson, ISBN 973-8225-04-3, Iasi 2000.

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

- Articole publicate în reviste cotate ISI

1. Nouaa, S., Aziam, R., Carja, G., Chiban, M., & Froidevaux, R. (2025). Immobilization of Trametes versicolor laccase on LDH/alginate composite beads for improved textile dyes decolorization. International Journal of Biological Macromolecules, 303, 140577.
2. Popa, I. M., Pischetola, C., Krumeich, F., Van Bokhoven, J. A., Carja, G., & Artiglia, L. (2025). Exploiting the LDH Memory Effect in the Carbon Dioxide to Methanol Conversion. Advanced Functional Materials, 2502812.
3. Nouaa, S., Aziam, R., Benhiti, R., Carja, G., Zerbet, M., & Chiban, M. (2024). Exploiting RSM and ANN modeling methods to optimize phosphate ions removal using LDH/alginate composite beads. Journal of Water Process Engineering, 68, 106333.
4. Gilea, D., Seftel, E. M., Van Everbroeck, T., Ababei, G., Cool, P., & Carja, G. (2024). NO reduction with CO on metal nanoparticles/layered double hydroxides heterostructures obtained via the structural memory effect. Catalysis Today, 425, 114342.
5. Mureseanu, M., Cioatera, N., & Carja, G. (2023). Fe-Ce/layered double hydroxide Heterostructures and their derived oxides: electrochemical characterization and light-driven catalysis for the degradation of phenol from water. Nanomaterials, 13(6), 981.
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9. Ait Ichou, A., Benhiti, R., Abali, M., Dabagh, A., Carja, G., Soudani, A., ... & Sinan, F. (2023). Characterization and sorption study of Zn2 [FeAl]-CO3 layered double hydroxide for Cu (II) and Pb (II) removal. Journal of Solid State Chemistry, 320, 123869.
10. Gilea, D., Ciocarlan, R. G., Seftel, E. M., Cool, P., & Carja, G. (2022). Engineering heterostructures of layered double hydroxides and metal nanoparticles for plasmon-enhanced catalysis. Catalysts, 12(10), 1210.
11. Huang, Y., Liu, Z., Bo, A., Tang, X., Martens, W., Kou, L., ... & Sarina, S. (2022). High efficient arsenic removal by In-layer sulphur of layered double hydroxide. Journal of Colloid and Interface Science, 608, 2358-2366.
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13. Zaghloul, A., Ichou, A. A., Abali, M., Benhiti, R., Soudani, A., Carja, G., ... & Sinan, F. (2021). Removal and comparative adsorption of anionic dye on various MgAl synthetic clay. Biointerface Res. Appl. Chem, 11(6), 14986-14997.
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standard coprecipitation and urea hydrolysis methods for phosphate removal. Environmental Science and Pollution Research, 27(36), 45767-45774.
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21. E.M. Seftel, M.C. Puscasu, M. Mertens, P. Cool, G. Carja - Assemblies of nanoparticles of CeO2–ZnTi-LDHs and their derived mixed oxides as novel photocatalytic systems for phenol degradation; Applied Catalysis B: Environmental 150-151, pp. 157-166, 2014.
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G. Invenţii.

H. Contracte de cercetare.

Director de grant/contract

1. Grant CNCSIS de tip A, cod CNCSIS 229, tema 4, Nr. 63GR/19.05.2006 (pe 2 ani: 2006-2007), Nanoargile anionice si nanohibrizi derivati cu proprietati texturale modelabile (NANOMODEL), Competitie CNCSIS. (Director de grant Carja Gabriela).
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7. Grant CNCSIS de tip A, cod CNCSIS 229, tema 9, Nr. 80GR/23.05.2007 (pe 2 ani: 2007-2008), Nanoargile anionice şi nanohibrizi derivaţi cu proprietăţi texturale modelabile (NANOMODEL), Competitie CNCSIS. (Director de grant Carja Gabriela).
8. Contract de tip PNCDI II „Capacitati" (pe 2 ani: 2007-2009), nr. 134CP/I//14.09.2007, Largirea competentelor Laboratorului de Caracterizari Fizico-Chimice prin cumulari de tehnici experimentale avansate utilizate in studiul aplicatiilor argilelor nanostructurate LDH (LaCaFiA), competitie ANCS. (Director de grant Carja Gabriela).
9. Contract de tip PNCDI II „Parteneriate" (pe 3 ani: 2007-2010), nr. 71-020/2007, Ansamble nanostructurate cu organizare structurala controlata de tip LDH cu aplicatii in protectia mediului (NATOEPA), competitie CNMP. (Director de grant Carja Gabriela).
10. Grant al Universitatii Oxford, (Anglia) „University of Oxford Hospitality for East European Countries", finanţat de British Council şi Fundaţia Soros. Septembrie 1995. Aprobat la Univ. Tehn. Iasi prin Ordinul Rectorului no. 372 din 29 iunie 1995.
11. Grant de specializare postdoctorala al Ministerului Stiintei si Cercetarii din Portugalia, la Instituto Superior Tecnico, Lisboa, Portugal. Septembrie 1997 - Septembrie 1998. Aprobat la Univ. Tehn. Iasi prin Ordinul Rectorului no. 616 din 24.07. 1997.

12. Grant de cercetare finatat de UNESCO si Tokyo Institute of Technology, Japonia in cadrul programului “the 35th course for advanced research in chemistry and chemical engeneering”, Tokyo, Japonia, septembrie 1999 - septembrie 2000. (la competitie au participat 227 de candidati ce au concurat pe 14 locuri). Aprobat la Univ. Tehn. Iasi prin Ordinul Rectorului no. 801 din 22.07. 1999.
13. Grant, pe activitate de cercetare postdoctorala, al Agentiei Franceze de Mediu, (ADEME) No. 0174064/2003 cu titlul Reducerea oxizilor de azot (NOx) cu hidrocarburi folosind catalizatori pe baza de fier de tip zeoliti, obtinut prin competitie internationala ca membru in echipa de cercetare la Laboratoire de Materiaux Catalytique et Catalyse en Chimie Organique UMR 5618 ENSCM-CNRS, Montpellier, France. Aprobat la Univ. Tehn. Iasi prin Ordinul Rectorului no. 799 din 25 iunie 2003.
14. Grant de cercetare al Tokyo Institute of Technology, Japonia, Centennial Memorial Award, Septembrie - Octombrie 2005.
15. Contract de tip PNCDI II „Capacitati”, Modul III, (pe 2 ani: 2008-2010), proiect bilateral România - Africa de Sud nr. 80/2008, Materiale nanostructurate cu capacitate de adsorbtie ridicate pentru indepartarea si recuperarea metalelor grele din apele reziduale (HELPWATER), competitie ANCS. (Director de grant Carja Gabriela).
16. Contract tip PCE IDEI, Contract finanțare nr. 75 / 2013, Self-assemblies of nanoparticles of metal oxides-layered double hydroxides as novel formulations for photocatalytic applications, competiție CNCSIS. (Director proiect Gabriela Carja).

Membru în colectiv

1. Superparamagnetice suport in ingineria proceselor biotehnologice si ecologice (Director Partener UTI, M. I. Popa) 155 milioane lei.
2. Contract 7004/B2 din 2001 (FAZA 1 SI FAZA 2/2002). Biomateriale cu eliberare controlata pentru uz veterinar.
3. Contract 37089 din 2000 (Cod CNCSIS 924, tema nr. 15). Aparat pentru determinarea maselor molare (director N. Aelenei).
4. Contract 13583 din 1997/faza 1998. Materiale avansate cu aplicatii in industria petrolului/analiza produselor prin scaderea punctului de congelare (Director E. Dumitriu).
5. Contract 566 /22 faza 1996, etapa I. Studiul intercalarii montmorilonitelor indigene cu policationi de aluminiu (Director E. Dumitriu).
6. Contract 565 /21 faza 1996, etapa II. Aplicatii catalitice ale sitelor de tip ALPO substituite (Director E. Dumitriu).
7. Contract32/233 faza 1995, Beneficar CNCSU. Sinteza materialelor cristaline microporoase cu structuri substituite si caracterizarea proprietatilor catalitice (Director E. Dumitriu).
8. Contract A 37-745,1995. Aromatizarea catalitica a olefinelor inferioare, beneficiar CNCSU. (Director E. Dumitriu).
9. Contract A 38-744, 1995. Valorificarea toluenului prin procese catalitice eterogene, beneficiar CNCSU. (Director E. Dumitriu).
10. Contract B 32-233, 1995. Sinteza materialelor cristaline microporoase si aplicatiile lor in procesele catalitice si protectia mediului., beneficiar “ CAROM S.A. Onesti”. (Director E. Dumitriu).
11. Contract 993 din 24. 01. 1992. Noi materiale catalitice eterogene in condensarea catalitica -eterogena a aldehidelor, beneficiar “CAROM S.A. Onesti”. (Director E. Dumitriu).
12. Contract 991 din 24. 01.1992. Catalizatori tip materiale cristaline micoporoase in procesul alchilarii toluenului, beneficiar “CAROM SA Onesti”. (Director E. Dumitriu).
13. Contract nr 2410 din 25.03.1991. Studii termodinamice si cinetice in vederea determinarii de marimi necesare in proiectare, beneficiar Ministerul Invatamintului si Siintei. (Director Ghe. Ionescu).

14. Programul PN II - IDEI 323, Contract de finanţare: 608 / 19.01.2009, Cercetări avansate privind efectul de memorie la nanostructuri de tip LDHs. Director contract: Conf. Dr. Chim. Margareta Gabriela Ciobanu.

L. Premii, distincţii.

- Medalia Tokyo Institute of Technology pentru recunoasterea activitatii de cercetare desfasurata la universitatea japoneza, Japonia 2000.
- EGIDE grant of French Environmental Agency, 2003-2004.
- Centennial Memorial Award of Tokyo Institute of Technology for foreign researchers, 2005.
- Premiul I Gala Premiilor in Educatie 2009 - categoria cercetatorul anului.
- Premiul “Gheorghe Spacu” al Academiei Romane acordat in anul 2009.
- Membru in Juriul Concursului International pentru studenti “Young Talents in Natural Science”, Sofia 2008.
- Diploma de excelenta si Medalia Inventica 2008, Salonul International Jubiliar al Cercetarii, Inventiilor si Transferului Tehnologic INVENTICA 2008, 14-24 mai 2008, Iasi pentru lucrarea „Extending the competencies of the physicochemical characterization laboratory by gathering advanced experimental techiques uses in the study of LDH nanostructured clays”, autori G. Carja, N. Apostolescu, G. Ciobanu, G. Apostolescu.
- Diplomă la Simpozionul Naţional “Viitorul este în mâinile noastre”, ediţia I, 16 mai 2009, Iaşi pentru lucrarea Sinteza prin metode neconvenţionale a nanoparticulelor de platină, autori: G. Apostolescu, G. Carja, N. Apostolescu, I. Mămăligă, G. Ciobanu.
- Medalie de argint la: VI International Salon of Inventions and New technologies “New Time”, Sevastopol, Ukraine, 23 - 25 septembrie 2010 pentru invenţia: Procedeu de obţinere a unor biocompozite pe bază de acetat de celuloză şi argile anionice, autori: G. Ciobanu, G. Carja
- Medalie de argint la: A 59-a ediție a Concursului internaţional Bruxelles-EUREKA, organizat în cadrul Salonului INNOVA, Bruxelles-Belgia, 18-20 noiembrie 2010. pentru invenţia: Procedeu de obţinere a unor biocompozite pe bază de acetat de celuloză şi argile anionice, autori: G. Ciobanu, G. Carja.

M. Alte realizări semnificative.

Expert-Evaluator al Comunitatii Europene pentru proiecte FP6/FP7.
Membru al Consiliului Cercetarii Stiintifice din Invatamantul Superior – CNCSIS

Data, Semnătură,

LISTA DE LUCRĂRI

Numele şi prenumele: Daniela SUTEU

A. Teza de doctorat.

Institutie: Universitatea Tehnică « Gh.Asachi » Iaşi, Facultatea de Chimie Industrială
Perioada: 1992-1998
Coordonator: prof.dr.chim.Alexandru Nacu
Titlul tezei: Concentrarea prin sorbtie a substantelor organice, susţinere publică - 1998
Titlul: DOCTOR in Chimie, specializarea Chimie Analitica, diploma seria P nr. 0006338, Ordin MEC 4090/ 03.07.1998

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

1.D.Suteu, C. Zaharia, T. Malutan, Chap. 8 "Biosorbents based on lignin used in biosorption processes from wastewater treatment" in "Lignin. Properties and Applications in Biotechnology and Bioenergy"; Ryan J. Paterson (Ed.), Nova Science Publishers, **2011**, ISBN 978-1-61122-907-3, New York, U.S.A. (279-305) – 26pg
2. D. Suteu, C. Zaharia, Chap.17 "Application of lignin materials for dye removal by sorption processes", in "Lignin. Properties and Applications in Biotechnology and Bioenergy"; Ryan J. Paterson (Ed.), Nova Science Publishers, **2011**, ISBN 978-1-61122-907-3, New York, U.S.A. (477-488) – 11pg
3.C.Zaharia, **D. Suteu**, Chap. 3. "Textile organic dyes – characteristics, polluting effects, and separation/elimination procedures from industrial effluents. A critical overview", in „Organic Pollutants Ten Years After the Stockholm Convention - Environmental and Analytical Update", T. Puzyn, A. Mostrag-Szlichtyng (Eds.), **2012**, ISBN 978-953-307-924-0, INTECH Publisher, Rijeka, Croatia (57-86) – 29pg
4.D.Suteu, S. Coseri, *Applications of polymeric materials as adsorbents for dyes removal from aqueous medium,* Polymer science: Research advances, practical applications and educational aspects (A. Méndez Vilas; A. Solano, Eds.) Formatex Research Center, Spain, **2016**, ISBN-13: 978-84-942134-8-962-70

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

1.Gh.Cristian, E.Horoba, M.Cojocaru, **D.Şuteu**, *Bioreactoare*, IAŞI, Editura CERMI, **1999**, ISBN 973-9378-93-5, 224p: capitolul 6 – Controlul analitic al proceselor biotehnologice.
2.Gorduza V.M., Tofan L., **Şuteu D.,** Gorduza E.V., *Biomateriale – Biotehnologii - Biocontrol*, Editura CERMI IASI, **2002**, ISBN 973-8188-12-1; 660p, capitolele 2-14
3.D.Şuteu, *Tehnici de analiză a urmelor. Lucrări practice*, Editura Performantica, Iaşi, **2004**, ISBN: 973-7994-45-0, 71pg.
4.D.Şuteu, L.Bulgariu, *Controlul analitic al calităţii produselor. Lucrări practice*, Editura Performantica, Iaşi, **2004**, ISBN: 973-730-002-5,105 pg
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E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

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2.D. Şuteu , C. Păduraru , R.I. Olariu, *Utilizarea materialelor celulozice în depoluarea apelor reziduale,* Revista de Chimie , **1998** , 49 (7) , pp.467-469
3.D. Şuteu , D. Bîlbă , Gh. Cristian, *The removal of reactive dye Brilliant Red HE–3B using ion exchange cellulose,* Cellulose Chemistry and Technology , **1999**, vol. 33 (5-6), pp.397-403
4.V.M. Gorduza , **D. Şuteu** , L. Tofan , O. Toma, *Sorption of - amylase from aqueous solutions by cellulosic sorbents modified with reactive dyes,* Revue Roumaine de Chimie, **2000**, 45(2), pp.149-151
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J. Inventii.

1. Technological Process for Purifing Waste Waters Resulting from Textile Industry by Using Various Types of Simple and Modified Ashes from Thermal Power Plant as Adsorbent, Patent Number: RO127284-A2 , Patent Assignee: UNIV IASI TEHNICA ASACHI GHEORGHE , Inventor(s): **Suteu D**; Zaharia C; Muresan A.
2. Lignocellulosic Waste Materials for Retaining Dyes from Textile Effluents, Patent Number(s): RO130219-A2, Patent Assignee: UNIV IASI TEHNICA ASACHI GHEORGHE , Inventor(s): Zaharia C, **Suteu D**; Muresan A., Muresan E.I.

K. **Contracte de cercetare/granturi.**

1. Membru in Contractul "Elaborarea unor metode de analiza si control cu performante superioare", nr.3002/1992, 10116, poz.B-20, director contract: prof. dr. chim. Al.Nacu, beneficiar Ministerul Invatamintului, faza **1992**
2. **Membru** in Contractul "Metode de separare si concentrare", nr.368961, poz.B-20, director contract: prof. dr. chim. Al.Nacu, beneficiar Ministerul Invatamintului, faza **1994**
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10. Membru in Contract 31-053/2007, PNCDI II – Parteneriate (**2007 – 2010**), Tehnologii avansate de mediu în industria textilă şi sisteme integrate de supraveghere şi prevenire a poluării apelor reziduale , Director Ing.Alina Popescu, INCDTP – Bucureşti (Director Partener UTI – Prof. Dr. Ing. Mureşan Augustin).
11. Membru in Contract 61-038/2007, PNCDI II – Parteneriate (**2007 – 2010**), Cercetări avansate privind tehnicile de eliminare a agenţilor microbiologici în procesele de purificare a apei utilizând radiaţii UV, Director Conf. Dr. Ing. Volf Irina (2007-2008)/ Conf. Dr. Ing. Lucian Tabacaru (2009-2010)
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14. Membru in Contract 94/13.09.2007 – PNCDI II – Capacităţi (**2007 – 2009**), Extinderea competenţelor laboratorului de analiză şi control al factorilor de mediu în domeniul estimării, caracterizării şi valorificării resurselor regenerabile şi reciclabile prin procedee chimice şi biotehnologice, Director Conf. Dr. Ing. Volf Irina – TUIasi.
15. Membru in Proiect Leonardo, Nr. 134124-LLP-2007-RO-LMP, Virtual training centre for shoes design, **2008-2010,** Director Dr. Ing. Mihai Aura - TUIasi
16. Membru in Proiect Leonardo, Nr. 2011-PT1-LEO05-08590, **2011 – 2013**, Training in Innovation, Entrepreneurship and Design for the Footwear Industry – TIED SHOE, Director Dr. Ing. Mihai Aura - TUIasi
17. Membru in Contract 539823-LLP-1-2013-1-PT-LEONARDO-LMP (STEP), **October 2013 - March 2016**, How to Implement Sustainable Manufacturing in Footwear - New Occupational Profile and Training Opportunities, Director Dr. Ing. Mihai Aura - TUIasi
18. Membru in Contract LLP-LdV-TOI/2013-RO-024, **2013-2015** Creative Transfer of Competence in 3D footwear CAD to Vet Professionals (INGA 3D), Director Dr. Ing. Mihai Aura - TUIasi
19. Expert pe termen scurt in programul POSDRU „Reţea Naţională de formare continuă a Cadrelor Didactice din Învăţământul Preuniversitar Profesional şi Tehnic – CONCORD". Nr.de identificare al contractului POSDRU/87/1.3/S/61397, **2011-2013**
20. Membru in Contract PNCDI III, Program P3 Cooperare europeană și internațională, SUBPROGRAMUL 3.2 Orizont 2020 – Manunet III, direcția de cercetare: New materials for manufacturing/4 – Eco-nano-tehnologii și materiale avansate - membru in echipa partenerului TUIASI (P2), la proiectul cu titlul: Manufacturing of value-added textiles for aromatherapy and skin care benefits/ Realizarea de materiale textile cu valoare adăugată destinate aromaterapiei și îngrijirii pielii (AromaTex), Coordonator grant (CO) – Institutul Național de Cercetare-Dezvoltare pentru Textile și Pielărie, director general contract: Dr.ing. Alina Popescu – **2018**
21. Membru in *Fit to Confort- Skills alliance for confort and healthy footwear manufacturing*, grant 562333=EPP-1-2015-1PT-EPPKA2-SSA, **2016-2018**, Director Dr. Ing. Mihai Aura - TUIasi
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L. Premii, distincţii.

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10. D. Suteu, C. Zaharia, *Study of reactive dye sorption from aqueous solutions onto citrus seed*, The XIX-th International Conference „ Inventica 2015", Iasi, Romania, June 24th – 26th **2015** – **Diploma of Honour**
11. C. Zaharia, **D. Suteu**, *Risk assessment study of Bahlui river in Iasi town area due to different urban wastewater treatment activities*, The XIX-th International Conference „ Inventica 2015", Iasi, Romania, June 24th – 26th **2015** – **Diploma of Honour**
12. D. Suteu, C.Zaharia, A. Muresan, *Technological process for purifying wastewaters resulting from textile industry by using various types of simple and modified ashes from thermal power plants adsortbents*, The XIX-th International Exhibition of Research, Innovation and Technological Transfer „ Inventica 2015", Iasi, Romania, June 24th – 26th **2015** – **Gold Medal**.
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17. Turcov D., **Suteu D**., Barna A.S., Iacob A.T., Enhancing antioxidant ability of resveratrol used in dermato-cosmetic products, EUROINVENT, 13th European Exhibition of Creativity and Innovation Iasi, Romania, 20 May **2021** - **Medalia de argint**

18. Tanasa A.M., Blaga A.C., Zaharia C., **Suteu D**., Biosorbents based on residual biomass of *Saccharomyces pastorianus* for the recovery of Methylene blue cationic dyes from aqueous media, EUROINVENT, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May **2022** - **Medalia de argint**

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20. Tanasa A.M., Puitel A.C., **Suteu D**., Adsorption of Cu(II) ions from aqueous media using lavender waste as biosorbent, EUROINVENT, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May **2022 - Medalie de aur**

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23. C. Maxim, S. Barna, A. Trifan, D. Turcov, **D. Șuteu**, Preliminary evaluation of aerial parts of *Acmella Oleracea* as an innovative resource for the development of high quality dermatocosmetics, EUROINVENT, 16th European Exhibition of Creativity and Innovation Iasi, Romania, 6-8 June **2024** - **Medalie de argint**

Data,
05.03.2026

Prof. dr. habil. ing. Adrian Ungureanu

Teza de abilitare.

'*Synthesis of highly dispersed transition metal (oxide) nanoparticles supported on ordered mesoporous materials. Strategies for engineering high-performance catalysts*', Universitatea Tehnică 'Gheorghe Asachi' din Iași, Facultatea de Inginerie Chimică și Protecția Mediului 'Cristofor Simionescu', **2024**.

A. Teza de doctorat.

'*Semicrystalline Zeolitic Mesoporous UL-Zeolites of MFI-type: Synthesis, Characterization and Catalytic Properties*' Coordonatori: Prof. Serge Kaliaguine (Laval University, Quebec, Canada), Prof. Emil Dumitriu (Universitatea Tehnica 'Gheorghe Asachi' din Iași) si Prof. Trong-On Do (Laval University, Quebec, Canada), **2005**.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

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

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3. B. Dragoi, A. Chirieac, A.M. Corcodel, A. Ungureanu, E. Dumitriu, CuCo Nanosized Bimetallic Particles Hosted by Pure and Phenyl Modified Mesoporous MCF Silicas for Cinnamaldehyde Hydrogenation, *Bull. Inst. Polit. Iasi*, Tomul LVIII (LXII), Fasc. 2, Sectia Chimie si Inginerie Chimica, (**2012**) 9.
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E. Contracte de cercetare.
Director de proiect

1. *Nanomateriale catalitice avansate pentru aplicații de mediu (CatEnA);* Buget 30.434 LEI; Sursa de finanțare: MOBILITĂȚI BILATERALE ROMANIA-FRANȚA/ PNCDI IV/ UEFISCDI; Durata proiectului: 09/2024-12/2025;
2. *Alumine mezoporoase ordonate în calitate de noi suporturi catalitice pentru nanoparticule de cupru înalt dispersate, pentru hidrogenări chemoselective (AlCat);* Buget 31.500 LEI; Sursa de finanțare: CAPACITATI 2012/ MODUL III /UEFISCDI; Durata proiectului: 05/2013-11/2014;
3. *Nanocatalizatori metalici pentru sinteza chimicalelor fine preparați prin controlul mediului local al suporturilor mezostructurate (NanoMesoChem)*; Buget 650.000 LEI; Sursa de finanțare:

RESURSE UMANE 2012/ TINERE ECHIPE/ UEFISCDI; Durata proiectului: 05/2013-12/2016;

Responsabil de proiect

4. *Proiect de mobilitate la Universitatea Tehnică ''Gheorghe Asachi'' din Iaşi - dr. Carmen Ciotonea;* Proiect PN III – Resurse Umane, Proiecte de mobilitate pentru tineri cercetători din diaspora – MCT, Perioada: 11/- 12/2019;

Membru

5. *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,* Poziția: *cercetător științific CS 2*; Buget: 49.771 LEI; Sursa de finanțare: GNaC-ARUT; Durata proiectului: 01/2024-04/2025;
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7. *Noi Valente ale Hidroxizilor Dubli Lamelari in Hidrogenari Chemoselective cu Aplicatii in Sinteza Chimica Organica Fina*; Pozitia: Pozitia: *cercetator stiintific CS 3* 01/2009-12/2011; Buget: 1.000.000 LEI; Sursa de finantare: IDEI 2008/UEFISCDI; Durata proiectului: 01/2009-12/2011;
8. *Noi Nanomateriale Poroase Hibride Mezostructurate pentru Aplicatii Catalitice Avansate (MEZOHIBCAT)*; Pozitia: *cercetator stiintific postdoctoral* 10/2006-02/2008; Buget: 524.835 LEI; Sursa de finantare: CEEX 2006/II/UEFISCSU; Durata proiectului: 09/2006-09/2008;
9. *Pile de Combustie de Noua Generatie cu Electrolit Solid Superacid (SAFC) pentru Exploatare la Temperaturi 200-300 °C (NewGenSAFC)*; Pozitia: *cercetator stiintific CS* 07/2006-11/2008; Buget: 1.500.000 LEI; Sursa de finantare: CEEX 2006/I/MENER; Durata proiectului: 07/2006-11/2008;
10. *Noi Catalizatori Oxidici Nano-structurati pentru Procese Industriale care asigura o Dezvoltare Durabila*; Pozitia: *asistent cercetare stiintifica ACS,* 01/2006 -10/2008; Buget: 1.500.000 LEI; Sursa de finantare: CEEX 2005/I/MATNANTECH; Durata proiectului: 10/2005-10/2008;
11. *Celule de combustie – Stocare de hidrogen*; Pozitia: *cercetător științific postdoctoral* 11/2005-01/2006; Buget: 540.000 LEI; Sursa de finantare: CEEX 2005/II/UEFISCSU; Durata proiectului: 10/2005-10/2007;
12. *Micro-Mesoporous Molecular Sieves: UL-Zeolites*; Poziția: *asistent de cercetare științifică*, 05/2001-08/2005; Buget: 300.000 CAD; Sursa de finantare: Strategic Projects, National Science and Engineering Research Council (NSERC) of Canada;
13. *Chaire Industrielle: Nanomaterials: Adsorbents, Catalysts and Membranes*, Poziția: *asistent de cercetare științifică*, 06/2003- 08/2005, Partenariat Conseil de recherches en sciences naturelles et génie Canada-Professeurs-chercheurs industriels / Chaire (PCI) (NSERC of Canada, General Motors Company of Canada, Nanox Inc., Silicycle Inc., Ultramar Canada Inc., Université Laval – BDR).

F. Alte realizări semnificative.

- Profesor invitat: Université du Littoral Côte d'Opale Dunkerque, France, UCEIV (11/2021); Université de Lille, Franța, UCCS (05/-06/2017); Université de Poitiers, Franța, IC2MP (11/2011);
- Cercetător invitat, Laboratorul de Cataliză Industrială, Departamentul de Științe Chimice, Universitatea din Cagliari, Italia (05/- 07/2007);
- Stagii de predare Erasmus: Institutul de cercetare IC2MP, Université de Poitiers, Franța; UCCS, Université Lille, Franţa (09/2012, 05/2013, 05/2014, 06/2015, 11/2018);
- Referent științific pentru reviste internaționale WoS: Nanoscale, Chemical Communications, Catalysis Science & Technology, Journal of Catalysis, Catalysis Today, ChemCatChem, RSC Advances, New Journal of Chemistry, Journal of Molecular Catalysis A: Chemical, Applied Catalysis A: General, Applied Catalysis B: Environmental, Journal of Porous Materials, Microporous and Mesoporous Materials, ACS Applied Materials and Interfaces, Industrial & Engineering Chemistry Research, Energy & Fuels, Biomass & Bioenergy etc.;

- Membru în comisii de doctorat la nivel național: ”Transition-metal-containing LDH-based catalysts for benzyl alcohol hydrodeoxygenation”, Claudiu Eduard Rizescu, Universitatea din București (12/2025); ”Noi compuși organosiliconici funcționali”, Georgiana Oana Trofin, Institutul de Chimie Macromoleculară Petru Poni din Iași (10/2025); ”Separation of organic compounds by adsorption on modified porous materials”, Etelka David, TUIASI (10/2017); ”Metal nanoparticles supported on multifunctional porous materials for catalytic applications”, Irina Mazilu, TUIASI (05/2017);
- Membru în comisii de doctorat la nivel internațional: ”Squaramide- and Urea-based Supramolecular Gels: Characterization and Environmental Applications”, Jessica Milia, Universitatea din Cagliari, Italia (07/2025); ”Glycerol Oxidation with Zeolite and Hierarchical Zeolite as Catalysts and Electrocatalysts”, Andrea Ruggiu, Universitatea din Cagliari, Italia (07/2025); ” Nanostructured Cerium Oxide-based Catalysts for the Chemical Conversion of CO_2 to Dimethyl Carbonate and Methane”, Nicoletta Rusta, Universitatea din Cagliari, Italia (07/2025); ”Development of innovative mesostructured catalysts for CO_2 conversion to dimethyl ether”, Fausto Secci, Universitatea din Cagliari, Italia (02/2023); ”Propriétés d’oxydes de manganèse divisés au sein d’une silice mésoporeuse organisée pour l’oxydation totale du formaldéhyde”, Guillaume Rochard, Universitatea din Lille, Franța (11/2018); ”Chemical Recycling of Carbon Dioxide to Chemicals and Fuels”, Atzori Luciano, Universitatea din Cagliari, Italia (01/2018); ”Biologia e Biochimica dell’Uomo et dell’Ambiente”, Universitatea din Cagliari, Italia (03/2011);
- Expert evaluator proiecte la nivel internaţional: Conseil Régional Nord-Pas de Calais, Franţa, Direction Recherche Enseignement supérieur Santé et TIC, Service Recherche et Technologies;
- Expert evaluator proiecte/ ofițer științific la nivel naţional: Alianţa Română a Universităţilor Tehnice (ARUT), Consiliul Național al Cercetării Științifice (CNCS), UEFISCDI;
- Responsabil acorduri Erasmus/ EU Lifelong Learning Programme/ Erasmus+ cu Université Lille, Franța, Université de Poitiers, ULCO Dunkerque, Franța și Universita degli Studi di Cagliari, Italia;
- Diplomă de excelență ANCSI și Ambasada Franței în România - pentru activitatea de cercetare științifică si tehnologică desfășurată în cadrul cooperării bilaterale Romania – Franța, Programul ”Brâncuși-Hubert Curien” (11/2016);
- Bursa NRC (National Research Council) Canada, for Ph.D. studies at Laval University; Bursa Universitatea Laval, Canada, Exemption from supplementary scholar fees for foreign students (05/2001- 08/2005);
- Experiență didactică internațională (07/2007: Lecturer - Biotechnologies for Food, BEST Summer School in Biotechnology, Iasi; 2001-2003: Asistent Profesor - Laboratoire Génie Chimique II (Toamna 2001), Dynamique et contrôle des procédés (Iarna 2002) și Laboratoires de Transfert (Iarna 2003), Departamentul de Inginerie Chimică, Facultatea de Științe și Inginerie, Universitatea Laval, Québec, Canada.
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Lista de lucrări în domeniul de doctorat Inginerie Chimică

Numele şi prenumele: MĂMĂLIGĂ IOAN

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

"Transfer de masă în filme lichide subţiri ",159 pg., 1996.

Institutie: Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Chimie Industrială, 19.12.1996. Coordonator ştiinţific: prof.dr.doc.ing. Radu Z. Tudose - membru corespondent al Academiei Române.

Titlul: DOCTOR INGINER, diploma seria P nr. 0001298, Ordinul ministrului învăţământului nr. 3991 / 2.06.1997.

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

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

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7. Grant CEEX nr.60 (3584P/20.07. 2006) Retea de cercetare si servicii pentru sinteza nanostructurilor cu aplicatii in produse avansate din industria textile, acoperiri protectoare si protectia mediului (SINAPS),

Director partener 3 UTI: Prof. Dr. Ing. Gabriela Carja

Colectiv: Mamaliga Ioan, Gabriela Ciobanu, Gabriela Apostolescu, Nicolae Apostolescu

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L. Premii, distincţii.

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...

Referent științific pentru articole publicate în reviste:
Journal of Membrane Science, Polymer, Chemical Engineering and Processing, Environmental Engineering and Management Journal, Cellulose Chemistry and Technology, Heat and Mass Transfer, International Journal of Heat and Mass Transfer, Chemical Engineering Science, Journalof Hazardous Materials, Materials, Processes, Molecules, Polymer, Membranes, etc.
Expert evaluator CNCSIS (peste 10 propuneri de proiecte evaluate)

Data, 9.03.2026

Semnătura:
Profesor univ. dr. ing. **Ioan Mămăligă**

Lista de lucrări în domeniul de studii universitare de licență
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A. Teza de doctorat.

Instituție: Universitatea Tehnică Gheorghe Asachi din Iași
Perioada: 1999 - 2004
Coordonator: Prof. Dr. Ing. Matei Macoveanu
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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

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

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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.
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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 de licență
Inginerie Chimică

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. 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
2. 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
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. I. Cârlescu, A.-M. Scutaru, D. Apreutesei, V. Alupei, D. Scutaru. The liquid crystalline behavior of azo unit containing Schiff bases, Liquid Crystals, 34, 7, pp. 775-785, 2007.
33. 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.
34. 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.
35. 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.

E. Lucrări indexate BDI

36. 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.
37. 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.
38. 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.
39. 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.
40. R.-M. Aioanei, I.Cârlescu, D. Scutaru. Ferrocene Containing Liquid Crystals. Buletinul IPI, Tom LV (LIX), pp 181 – 190, 2009.

41. 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.
42. 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.
43. I. Cârlescu, O. Cătănescu, D. Scutaru. Ferrocene-containing liquid crystals, Buletinul IPI, Tom XLIX, (LIII), fascicola 3-4, pp. 21-27, 2003.
44. 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.

martie 2026 **Semnătura:**

Lista de lucrări în domeniul de studii universitare de licență

Inginerie Chimică

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
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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

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

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(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**(

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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
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(***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



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Chiriac Bogdan**

A. Teza de doctorat

„Cercetări privind procesele de frecare și de uzare în tribositeme de alunecare cu suport de sticlă ” specializarea Inginerie mecanică, diploma nr. 3427/19.12.2024, titlu acordat de Universitatea „Gheorghe Asachi” din Iaşi, Facultatea de Mecanică, conducător ştiinţific prof. dr. ing. Dumitru Olaru.

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Achitei, G., Dontu, A. I., Chiriac, B., & Popescu, A. (2023). *State-of-the-Art and Future Trends of Thermoelectric Generation Systems in Automotive Industry* (pp. 1–8). https://doi.org/10.1007/978-3-031-45964-1_1

2. Cârlescu, V., Oprișan, C. M., Chiriac, B., Ianuș, G., & Olaru, D. N. (2022). *Influence of Hand Sanitisers on the Friction Properties of the Finger Skin Amid the COVID-19 Pandemic* (pp. 420–428). https://doi.org/10.1007/978-3-030-79165-0_39

3. Cârlescu, A. Tufescu, B. Chiriac,V., Oprișan, C. M. *Modelling of Static and Kinetic Friction Coefficient in Stick-slip Motion.* International Conference Innovation In Engineering, 392-401

4. Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024a). Glass Wear with Different Powders (Eutalloy Tung Tec, Metco 82VF-NS and MTS 8013). *Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section*, *70*(3), 35–44. https://doi.org/10.2478/bipcm-2024-0014

5. Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024b). Wear of Glass with Soft Materials. *Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section*, *70*(3), 57–64. https://doi.org/10.2478/bipcm-2024-0016

6. Chiriac, B., Oprisan, C. M., Carlescu, V., & Olaru, D. N. (2022). Friction coefficient between glass surfaces and soft materials. *IOP Conference Series: Materials Science and Engineering*, *1262*(1), 012004. https://doi.org/10.1088/1757-899X/1262/1/012004

7. Cojocaru, D., Ianuș, G., Cârlescu, V., Chiriac, B., & Olaru, D. (2025). Friction Torque in Miniature Ball Bearings. *Lubricants*, *13*(1), 12. https://doi.org/10.3390/lubricants13010012

8. Cojocaru, D., Ianuș, G., Cârlescu, V., Chiriac, B., & Olaru, D. (2025). Grease Film Behavior in Ball Bearings. *Lubricants*, *13*(10), 429.

0. Oprisan, C. M., Chiriac, B., Carlescu, V., & Olaru, D. N. (2020). Friction forces on human finger skin. *IOP Conference Series: Materials Science and Engineering*, *724*(1), 012059. https://doi.org/10.1088/1757-899X/724/1/012059

10. Oprișan, C. M., Chiriac, B., Cârlescu, V., & Olaru, D. N. (2020). Influence of the stiffness and the speed on the stick-slip process. *IOP Conference Series: Materials Science and Engineering*, *997*(1), 012016. https://doi.org/10.1088/1757-899X/997/1/012016

11. Oprișan, C. M., Chiriac, B., Tufescu, A., & Olaru, D. N. (2022). Static and dynamic friction coefficient in low loads and sliding speed conditions. *IOP Conference Series: Materials Science and Engineering*, *1262*(1), 012012. https://doi.org/10.1088/1757-899X/1262/1/012012

12. Oprişan, C. M., V. Cârlescu, Chiriac, B., *A simplified friction force model of transient sliding contact between hard and soft surfaces.* BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Volumul 70 (74), Numărul 4, 2024 DOI:10.2478/bipcm-2024-0018

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

- Reviste

1. **Chiriac B.**, Oprisan C.M., Carlescu V., Olaru D.N., *Static and Dynamic friction coefficient for glass surfaces*, 10th International Conference on Tribology – Balkantrib 20, Servia, 2021

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1.

E. Brevete obţinute în întreaga activitate

1.

Data: 04.03.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: MĂLUȚAN CORINA

A. Teza de doctorat.

Instituția: Universitatea Tehnică "Gheorghe Asachi" din Iași / Facultatea de Chimie Industriala
Anul: 1999
Conducător științific: Prof. dr. doc. Emanuel Poppel
Titlul tezei: *Cercetări în domeniul reologiei hârtiei. Aspecte teoretice şi aplicative*
Titlul obținut: DOCTOR în Chimie, specializarea: Tehnologia si reologia celulozei si hartiei
Date privind diploma: Seria P. Nr. 0006431, prin Ordin al ministrului 3460/1999
Nr. 1151/22.03.1999

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. Corina Măluţan, CHIMIE ORGANICĂ I
   Ed. PERFORMANTICA (acreditată CNCSIS 1142/30.06.2003), Iaşi, 2005
   178 p - format academic
   ISBN 973-730-051-3

2. Lucia Tataru, Corina Măluţan, Mihai Vata, CHIMIE ORGANICĂ EXERCITII
   Ed. PERFORMANTICA (acreditată CNCSIS 1142/30.06.2003), Iaşi, 2007
   132 p -- format academic
   ISBN 978-973-730-377-6

3. Lucia Tătaru, Mihai Vâţă, Dan Scutaru şi Corina Măluţan, CHIMIE ORGANICĂ. ACIZI CARBOXILICI SI DERIVATI FUNCTIONALI,
   Ed.PERFORMANTICA, Iaşi, 2009,
   110 p. - format academic
   ISBN 978-973-730-579-4

4. Corina Măluţan, NOTIUNI GENERALE DE CHIMIE ORGANICA
   Ed. POLITEHNIUM, 2010
   360 p - format academic
   ISBN 978-973-621-307-6

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. Doina Humelnicu, A Pui, Corina Malutan, Th Malutan, I Humelnicu, 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

2. Valentina Iordan (Constantin), Theodor Malutan, Corina Malutan, Control of Lignin Epoxydation By Reaction Calorimetry, Cellulose Chemistry and Technology, 52 (9-10), 789-793, 2018

3. Maria Geba, Th. Malutan, Corina Malutan, 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

4. Angelica Olaru, Th. Malutan, Maria Geba, Corina Malutan, et al., 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

5. Corina Malutan, Adina Elena Panzariu, Th. Malutan, Comparative study of prehydrolysis methods for vegetal materials, Environmental Engineering and Management Journal, 14 (2), 409-413, 2015

6. T. Măluţan, Corina Măluţan, Simulation of processes in papermaking by WinGEMS software, Environmental Engineering and Management Journal, 12 (8), 1645-1647, 2013

7. A.Pui, Th. Măluţan, Lucia Tătaru, , Corina Măluţan, D.Humelnicu, G.Carja, New complexes of lanthanide with Schiff bases derived from, 2-furaldehyde and phenylenediamines, Polyhedron, 30, 2127-2131, 2011

8. A. Cerempei, L. Ciobanu, E. Muresan, Corina Măluţan, R. Butnaru, Textile materials functionalized with natural biologically active compounds, Romanian Biotechnological Letters, 15(5), 5537-5544, 2010

9. M.Ursescu, G.Lisa, Corina Măluţan, S.Ciovica, Influence of gall ink composition on thermal stability of paper, Cellulose Chem. Technol. 43, (9-10), 427-434, 2009

10. Th. Măluţan, A.Pui, Corina Măluţan, Lucia Tătaru, D.Humelnicu, A Fluorescence Emission, FT-IR and UV-VIS Absorbtion Study of the Some Uranium (VI) Schiff Bases Complexes, Journal of Fluorescence, s10895-008-0339-9, 2008

11. E. Poppel, Corina Măluţan, Th. Măluţan, Natalia Orlevschi, Correlation between the standard, rheological and technological parameters in clupack extensible paper manufacturing, Cellulose Chem. Technol. 34, (1), 385-398, 2000

12. E. Poppel, Corina Măluţan, Natalia Orlevschi, M. Puiu, Research on the rheological behaviour of clupak extensible papers, Cellulose Chem. Technol. 33, (1), 135-146, 1999

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

1. Victor Pricop, Ema Sava, Ana Cișlaru, Corina Măluțan, Aurel Simion, Irina Cârlescu, Synthesis and Characterization of Intermediate Azobenzene Derivatives with Terminal Polar Group, Buletinul Institutului Politehnic din Iasi, 65(69), Fasc. 4, 1-8, 2019

2. L.Tataru, Corina Măluţan, M.Vata, G.Rusu, Synthesis and characterization of Cu(II), Ni(II) metal complexes of some bis Schiff Bases, Bull.I.P.I., Tomul LVI (LX), Fasc. 4, 34-40, 2010

3. Corina Măluţan, Th. Măluţan, E.Poppel, Elemente potenţial toxice în hârtia de ambalaj pentru alimente. III: Analiza pe fluxul de fabricare a hârtiei, Celuloză şi Hârtie, 56, 3, 31-38, 2007

4. A.Pui, Corina Măluţan and Mihaela Pui, Synthesis and characterization of the 1,5 – pentilen diamin Schiff Bases, Bull.I.P.I., Tomul LII (LVI), Fasc.3-4, 15-20, 2006

5. A.Pui and Corina Măluţan, Coordinative compounds of Ni(II) with tetra-chloro salen and tetra-chloro salophen types ligands, Bull.I.P.I., Tomul LI (LV), Fasc.3-4, 23-28, 2005

6. Th. Măluţan, A. Pui, Corina Măluţan, Aplicaţii ale spectroscopiei ATR-FTIR în domeniul fabricării hârtiei, Celuloză şi Hârtie, 53, 4, 3-8, 2004

7. Corina Măluţan, Th. Măluţan, E.Poppel, Studiul calităţii unor hârtii reciclate prin caracterizare reologică comparativă, Celuloză şi Hârtie, 52, 1, 7-11, 2003

8. A.Pui, Corina Măluţan, D.G. Cozma, Equilibria of formation of the nikel complexes with Schiff bases, Bull.I.P.I., Tomul XLVIII (LII), Fasc.1-2, 29-35, 2002

9. A.Pui, D.G. Cozma, Mihaela Pui, Corina Măluţan, Kinetics of catalytic oxidation of phenols with molecular oxygen catalysed by transition metal complexes, Bull.I.P.I., Tomul XLVIII (LII), Fasc.3-4, 53-59, 2002

10. E.Poppel, Z.Lado, Corina Măluţan, I. Mămăligă, Th. Măluţan, I.Obrocea, I.Ibănescu, Studiul caracteristicilor electrocinetice, reologice, hidrodinamice şi fizico-chimice ale pastelor din fibre reciclate, Celuloză şi Hârtie, 48, 3, 3-15, 1999

11. Corina Măluţan, V. Taşcă, E.Poppel, Modificări ale structurii hartiei microcreponate tip clupack prin solicitarea la întindere, Celuloză şi Hârtie, 48, 4, 20-27, 1999

12. Em. Poppel, Corina Măluţan, E.Carata, M. Antochi, Metode de determinare a caracteristicilor reologice la hârtii şi cartoane, Celuloză şi Hârtie, 47, 2, 9-23, 1998

13. Em.Poppel,Corina Măluţan, Reologia suspensiilor fibroase şi importanţa acesteia. II. Cu privire la viscozitatea suspensiilor fibroase, Celuloză şi Hârtie, 46 , 2, 12-23, 1997

14. Elena Bobu, Corina Măluţan, P.Balteanu, Efectele adaosului de metilceluloza asupra comportarii reologice a pastelor de cretare, Celuloză şi Hârtie, 45 , 3, 16-23, 1996

15. E.Poppel, R.Mureşan, A Mureşan, Corina Măluţan, The importance of zeta potential in the chemical textile finishing.1. Possibilities to increase the fixation efficiency in fibre-reactive dyes systems, Bull.I.P.I., Tomul XLI (XLV), Fasc.1-2,67-70, 1995

16. Em.Poppel,Corina Măluţan, Căi şi mijloace de redresare şi modernizare a tehnologiei de fabricare a hârtiei in România. I.Utilizarea amidonului cationic ca aditiv în fabricarea hârtiei, Celuloză şi Hârtie, 43 , 1,3-9, 1994

17. Em.Poppel,Corina Măluţan, Căi şi mijloace de redresare şi modernizare a tehnologiei de fabricare a hârtiei in România. II.Studiul posibilităţilor de utilizare a caolinei indigene de Harghita în condiţii de eficienţă maximă, Celuloză şi Hârtie, 43 , 1,10-15, 1994

18. Em.Poppel,Corina Măluţan, Reologia suspensiilor fibroase şi importanţa acesteia. I. Cu privire la structurarea suspensiilor fibroase şi a pastelor papetare, Celuloză şi Hârtie, 43, 2, 22-27, 1994

19. Em.Poppel, M.Puiu, H.Paraschiv, Corina Măluţan, Productivitate, calitate şi protecţia mediului prin folosirea aditivilor in industria de hârtie, Celuloză şi Hârtie, 42 , 4, 2 - 12 ,1993

20. Em.Poppel,Corina Măluţan, Controlul prin potenţialul zeta al retenţiei materialelor de umplere la hârtiile hidrorezistente decor-barieră, Celuloză şi Hârtie, 41 ,3, 3-5,1992

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. M.Ursescu, P.Nechita, P.Puiu, Corina Măluţan, S.Ciovica, " The influence of some reconstructed Romanian gall-inks on the rheological properties of paper", in "Works of Art & Science Today", 88-89, Thessaloniki, Greece, 26-28 nov. 2010

2. A. Cerempei, E. Muresan, Corina Măluţan, S. Dunca, A. Muresan, "Functionalization of celulosic textile materials dyed with reactive dyes by treatment with AgNO3 salts", in "14th Internatinal Symposium on Cellulose Chemistry and Technology", 295-302, Iasi, 8-10 sept. 2010

3. A.Pui, T.Malutan, L. Tataru, Corina Măluţan, " Synthesis and characteriyation of new catalysis for lignin oxidation" in "14th Internatinal Symposium on Cellulose Chemistry and Technology", 295-302, Iasi, 8-10 sept. 2010

4. A. Mureşan, L. Tătaru, A. Ecsner, Corina Măluţan, M. Vâţă, "Aplicarea pe fibre celulozice a unor noi agenţi de cationizare" în" Proceedings of the XII-th Textile and Leather Romanian Conference - Section Technologies & equipments for textile finishing" 232 - 235, Ed. Performantica, 2002, la XII CORTEP Wazs for the future in textile and leather science and engineering, Iaşi, 17-19 oct.2002

5. L.Tătaru, A. Mureşan, Corina Măluţan, M. Vâţă, "Sinteze de noi agenţi de cationizare a celulozei prin intermediul unor C - baze Mannich" în" Proceedings of the XII-th Textile and Leather Romanian Conference - Section Technologies & equipments for textile finishing", 241-245, Ed. Performantica, Iaşi, 2002, la XII CORTEP Wazs for the future in textile and leather science and engineering, Iaşi, 17-19 oct.2002

6. Th. Măluţan, Corina Măluţan, Carmen Tunu, "The reactivity of chemical components of wood in prehydrolysis with salt catalysts", în " High performance process and equipment for the pulp and paper industry", 1-5 la Third International Symposium CEPROHART, Braila, 30 mai - 1 iunie 2000,

7. E. Poppel, Z. Lado, Corina Măluţan, I. Mămăligă, Th. Măluţan, I.Obrocea, I. Ibănescu "Research on electrokinetic, rheological, hydrodynamic and physico-mechanical behaviour of paperstoks from recycled fibers" ; la "Twelfth International Symposium on Cellulose Chemistry and Technology", Iaşi, 21-23 sept. 1999, Pulp and paper industry - trends perspectives and expectations, 126-131, Ed. Plumb, Bacau, 1999

J. Inventii.

K. Contracte de cercetare/granturi.

Director de grant:

1. Contract POSDRU/81/3.2/S/53449 (2010 – 2013),
   "Programe de sprijin organizational si formare profesionala pentru personalul angajat din sectorul de celuloza, hartie si carton in vederea adaptarii la dinamica pietei interne si internationale"

Membru:

1. Grant CNCSIS 251/ 2006-2008, Caracterizarea hartiilor si cartoanelor destinate ambalajelor alimentare,
   Director de proiect : Th.Malutan Membri:C.Măluţan, P.Obrocea, D.Gavrilescu

2. Contract MANANTECH CEEX 108 / 2006-2008
   "Noi sisteme nanostructurate utilizate pentru eliberarea controlata a agentilor farmacologici",
   Director de proiect : Popa I. Marcel, Membri: G.Lisa, N.Popa, C.Măluţan

3. Contract PN II 9207/2008
"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 de proiect : Th. Măluţan Membri: C.Măluţan

4. Contract PN II 41017/2007
   Noi sisteme terapeutice, donoare de oxid nitric, cu eliberare controlata
   Director de proiect : Popa I. Marcel, Membri: G.Lisa, N.Popa, C.Măluţan

5. Contract PN II 81051/2007
   Cercetari privind implementarea separarii magnetice in detoxificarea sangelui uman utilizand particule magnetice suport
Director de proiect : Popa I. Marcel, Membri: G.Lisa, N.Popa, C.Măluţan

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
10.03.2026

Semnătura,
Sef lucr. dr. ing. Corina Malutan

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licenţă
Inginerie Chimică

Numele şi prenumele: BUBURUZAN MARILENA ADELA

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.

2. 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. **Adela Marilena Buburuzan,** Materiale suport *Știința Materialelor* – materiale suport pentru laborator on-line, platforma MS Teams, 2020 – prezent;
2. **Adela Marilena Buburuzan,** Materiale suport *Analiza și Sinteza Proceselor Tehnologice* – materiale suport pentru curs și laborator on-line, platforma MS Teams, 2020 – prezent;
3. **Adela Marilena Buburuzan**, *Suport de curs a disciplinei Tehnologii de protecţie a atmosferei*, 2013, http://www.didatec.ro/sites/uti/tehnologiideprotectieaatmosferei635154800395365018/default.aspx;
4. **Adela Marilena Buburuzan**, *Suport de studiu pe Web pentru laborator la disciplina Tehnologii de protecţie a atmosferei*, http://www.didatec.ro/sites/uti/tehnologiideprotectieaatmosferei635154800395365018/default.aspx;
5. **Adela Marilena Buburuzan,** 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;

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. Dagoi, (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).
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)
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 Ecology and Protection Environment*, **11** (2), 623-635, (FI = 0.178)
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) lucrări publicate în volume ale manifestărilor ştiinţifice internaţionale şi naţionale (2):

1. **Buburuzan (Haleţa) A.**, Catrinescu C., Macoveanu M., (2008), 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.

2. **Haleţa (Buburuzan) A.**, Catrinescu C., Macoveanu M., (2008), 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, 12-24 mai 2008, Iaşi, Ed. Performantica, ISBN 978-973-730-491-9, p. 696-698.

b) lucrări prezentate la diferite manifestări ştiinţifice internaţionale şi naţionale recunoscute internaţional (21):

1. Elena Fasniuc Pereu, Gabriela Lisa, **Adela-Marilena Buburuzan** and Laura Bulgariu, *Functionalization of PET fibers with alginate: Structural and adsorptive characteristics*, International Conference on e-Health and Bioengineering, **EHB 2025**, 13th Edition, 13-14 November 2025, Hybrid Conference, Iași, Romania - https://www.ehbconference.ro/Portals/0/EHB2025_Detailed_Program.pdf;
2. 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.
3. **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.
4. **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.
5. **Adela Marilena Buburuzan** , *Assessing the performance of a new VOCs adsorption system from gaseous streams*, Proc. 10th International Conference on Environmental Engineering and Management, ICEEM 10, Iasi, Romania, 18-21 September, 2019, – poster, ISSN 2457-7049/ECOZONE, 341-343.
6. Ana-Maria Schiopu, Catalin Neculau, **Adela Marilena Buburuzan**, Comparison between two systems of separate waste collection in the city of Iasi-Romania: 2009-2019, Proc. 10th International Conference on Environmental Engineering and Management, ICEEM 10, Iasi, Romania, 18-21 September, 2019, – poster, ISSN 2457-7049/ECOZONE, 175-177.
7. **Adela Marilena Buburuzan,** *Performance of dynamic VOCs adsorption onto hypercrosslinked polymeric resins compared to activated carbon*, Proc. 9th International Conference on Environmental Engineering and Management, ICEEM 09, Bologna, Italy, 6-9 September, 2017 – poster.
8. Ana-Maria Şchiopu, Ion Apostol, **Adela Marilena Buburuzan,** *Sources apportionment of ambient air pollutant PM_{10} in Iasi city*, Proc. 9th International Conference on Environmental Engineering and Management, ICEEM 09, Bologna, Italy, 6-9 September, 2017 – poster.
9. **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, Iasi, Romania, 9-12 September, 2015 – poster.
10. **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 – poster;
11. **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, Vienna, Austria, 18-21 September, 2013 – poster.
12. **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.

13. **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.

14. **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, Balatonalmadi, Hungary, 1-4 September, 2011 – comunicare.

15. **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.

16. **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.

17. **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, Tulcea – Danube Delta, România, 15-19 sept., 2009, - poster.

18. **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, Tulcea – Danube Delta, România, 15-19 sept., 2009 - poster.

19. **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)*, Conferinţa Naţională a Zilelor Facultăţii de Inginerie Chimică şi Protecţia Mediului – Materiale şi procese inovative, Ed. a V-a, Iaşi, 19-21 nov. 2008, - poster.

20. **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, - poster.

21. 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 de Grant

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 echipă

2. Grant finanțat **COST ACTIONS** OC-2023-1-26944, CA23157, *European Network for Multiple View Life Cycle Sustainability Assessment*, perioada **2024-2026**, coordonator rețea națională, responsabil TUIASI – Conf.habil.dr.ing. Brindușa Slușer, **Adela Marilena Buburuzan - membru în echipa proiectului.**
3. 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 **2019-2022**, proiect derulat prin TUIASI_ CCTT Polytech, Universitatea Tehnica "Gheorghe Asachi" din Iasi, director proiect: Conf.habil.dr.ing. Brîndușa Mihaela Slușer, **Adela Marilena Buburuzan - membru în echipa proiectului/formator – responsabil grup țintă**;
4. 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%, DMI 1.2, Responsabil proiect TUIASI: Carmen Teodosiu, Valoare: 706.000 lei, **Adela Marilena Buburuzan - membru în echipa proiectului/Expert monitorizare studenţi**;
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. 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;
2. 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.
3. 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:

- ***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 şi al deşeurilor, 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):

- *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;

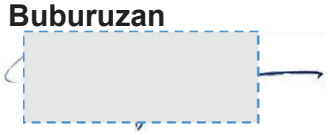
- Workshop *Raportarea de mediu în contextul dezvoltării durabile*, organizat de OAIMDD, catedra de Ingineria şi Managementul Mediului în colaborare cu IIIEE, Lund University, Suedia, 17 – 26 aprilie 2006, Iaşi;
- Workshop *Management şi politici de mediu pentru producţie şi consum durabil*, organizat 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, anul III și anul IV.
- 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/, (2013-2024);
- Membru în comitetul ştiinţific şi de organizare a manifestării „*High School Science Projects*", (2013-2018; 2023-2025), 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);
- Membru în comisiile de admitere a Facultăţii de Inginerie Chimică şi Protecţia Mediului (2012-2020);

Data, Semnătura,

Martie, 2026 **Sef lucr. dr. ing. Adela-Marilena Buburuzan**



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

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,

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **PĂIUȘ (căs. HERGHILIGIU) I. CRISTINA-MARIA**

A. Teza de doctorat
Institutie: Universitatea Tehnică “Gh. Asachi” Iaşi, Facultatea de Inginerie Chimică și Protecție Chimică “Cristofor Simionescu”
Perioada: 2010-2013
Indrumator: Prof. univ. dr. ing. Nicolae Hurduc
Titlul tezei: *Polimeri multifuncționali fotosensibili pentru aplicații biologice*
Titlul: DOCTOR Chimist, seria I, nr. 0003768, ordinul MEN nr. 165 din 07.04.2014

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web
1. **C.M. Herghiligiu**, Irina Cârlescu - *Chimie organică II - suport lucrări de laborator*, format ppt, https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-suportlaborator/IQBbm8X1U0fkRry_ReKIlYqBAYI37UhE9IvbAeJN9c5P62A?e=BtKiE0
2. **C.M. Herghiligiu** - *Chimie organică II - exerciții teste curs*, format ppt https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-exerciiitestecurs/IQB_Bpt6-Ob2RrOloxkr0v-TAQkT-NdvRcDwG53mGEj4H7o?e=QFEeaO
3. **C.M. Herghiligiu** - *Chimie 2 (Chimie organică) - suport laborator*, format ppt https://tuiasiro.sharepoint.com/:b:/s/Chimie2Chimieorganica-IM/IQCQCv7bbcbhRqOntYnRwm3QAWv6gfNSHPydTffbtj_ifaI?e=7a8D7P
4. **C.M. Herghiligiu** - *Chimie 2 (Chimie organică) - exerciții teste curs*, format ppt https://tuiasiro.sharepoint.com/:f:/s/Chimie2ChimieOrganicatestecursexercitiisirezolvari/IgBztRTKS7rpSqt_Z_CXm3LIAdy2CZApKn06ioC7GbQV5qE?e=XLtASq
5. **C.M. Herghiligiu** - *Chimie supramoleculară – suport laborator*, format ppt https://tuiasiro.sharepoint.com/:b:/s/CHIMIESUPRAMOLECULARAsuportlaborator/IQCr9NzhXtulQpvgRh5DenhaASi_qZLeIkwx90-I5UEMUvM?e=JNULOP
6. **C.M. Herghiligiu** - *Strategia cercetării – suport laborator*, format ppt https://tuiasiro.sharepoint.com/:f:/s/SuportlaboratorSTRATEGIACERCETRII_masteranuII_BPB/IgB4hia08x6mT4jBfi-CN5XbAU8tABwnbQ2Jb7KbFHUv18k?e=V2nV1c

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

- Articole publicate în reviste cotate ISI

1. 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, DOI: 10.30638/eemj.2024.019
2. 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; DOI: 10.30638/eemj.2018.095
3. 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
4. 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
5. 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
6. **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
7. 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
8. 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; DOI: 10.1177/0954008312444294
9. 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, 316–320https://revistadechimie.ro/Articles.asp?ID=2561
10. 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

- Articole indexate în baze de date internaţionale

1. 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/bipi-2025-issue4/
2**. 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, DOI: 10.5281/zenodo.7542923
3. **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; DOI: 10.5281/zenodo.7544308
4. **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
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5. 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; DOI: 10.2478/achi-2013-0004
6. 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

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **C.M. Herghiligiu**, *A perspective of 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
2. **C.-M. Păiuș**, *Studiul capacităţii de nanostructurare a azo-polimerilor*, volum Workshop „Tendinţe şi cerinţe de interdisciplinaritate în cercetare" POSDRU/107/1.5/S/79407, 2013
3. 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
4. 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

K. Contracte de cercetare.
Membru în colectiv

1. 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
2. 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
3. Proiect ROSE - „Experimentează și descoperă fascinația studenției" cu acronimul EDFS, SGU/PV/ AG 326/18.06.2020 - expert formare
4. Proiect ROSE - "Reacționează Chimic cu Mediul de la TUIași", cu acronimul RCM TUIASI și AG nr. 129/SGU/PV/II - expert formare

L. Premii, distincţii.

1. Diplomă de excelență la 10th Edition of European Exhibition of Creativity and Innovation – EUROINVENT, 17 – 19 mai 2018, Iași, România cu lucrarea *Cell –Instructive Azomaterials, autori* **Cristina-Maria Herghiligiu**, Irina Cârlescu, Elena-Luiza Epure, Norica Nichita, Dan Scutaru, Nicolae Hurduc, , 17 – 19 mai 2018, Iași, România
2. Medalia de aur la 10th Edition of European Exhibition of Creativity and Innovation – EUROINVENT 2018, 17 – 19 mai 2018, Iași, România, pentru invenția *Interchangeable insole cover for footwear and obtaining process*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
3. Diplomă de excelență la 10th Edition of European Exhibition of Creativity and Innovation – EUROINVENT 2018, 17 – 19 mai 2018, Iași, România pentru lucrarea *Understanding of photoisomerisation process of azo-polysiloxanes by molecular modeling studies*, autori: Elena-Luiza Epure, Simona Ciobotarescu, **Cristina-Maria Herghiligiu,** Nicolae Hurduc
4. Medalia de argint *la* Salonul Internaţional al Inovării şi Cercetării Ştiinţifice Studenţeşti, - "Cadet INOVA'18" - Academia Forţelor Terestre "Nicolae Bălcescu", Sibiu, 19 - 21 Aprilie 2018, România pentru lucrarea *Theoretical and experimental studies of modified polymers to form nanostructurated surfaces*, autori: Simona Ciobotărescu, Elena-Luiza Epure, **Cristina-Maria Herghiligiu**, Victor Teboul, Nicolae Hurduc

5. Diplomă de excelență la Salonul Internaţional al Inovării şi Cercetării Ştiinţifice Studenţeşti, - ”Cadet INOVA’18” - Academia Forţelor Terestre “Nicolae Bălcescu”, Sibiu, 19 - 21 Aprilie 2018, pentru lucrarea *Engineering cell-instructive materials to control cell fate and functions*, autori: **Cristina-Maria Herghiligiu**, Irina Cârlescu, Simona Ciobotărescu, Dan Scutaru, Nicolae Hurduc
6. Premiul special OSIM la Salonul Internaţional al Inovării şi Cercetării Ştiinţifice Studenţeşti, - ”Cadet INOVA’18” - Academia Forţelor Terestre “Nicolae Bălcescu”, Sibiu, 19 - 21 Aprilie 2018 cu invenția *Interchangeable insole cover for footwear and obtaining process,* autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
7. Medalia de aur și diplomă de excelență la PRO INVENT, EDIȚIA XVI, 21-23 martie 2018, Cluj-Napoca, pentru invenția *Acoperiș de branț inteschimbabil și procedeu de obținere*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
8. Medalia de bronz la INFOINVENT", EXPOZIȚIA INTERNAȚIONALĂ SPECIALIZATĂ, EDIȚIA A XV-A, 15 – 18 noiembrie 2017, Republica Moldova pentru invenția *Interchangeable insole cover for footwear and obtaining process*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
9. Diploma și medalia USV acordată de Universitatea „Ștefan cel Mare” din Suceava, România în cadrul INFOINVENT", EXPOZIȚIA INTERNAȚIONALĂ SPECIALIZATĂ, EDIȚIA A XV-A, 15 – 18 noiembrie 2017, Republica Moldova pentru invenția *Interchangeable insole cover for footwear and obtaining process*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
10. *Medalia de argint* la UGAL INVENT Salonul Inovării şi Cercetării, 19- 20 octombrie 2017, Galaţi România, pentru invenția *Interchangeable insole cover for footwear and obtaining process*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
11. *Medalia de argint* la The 9th Edition of European Exhibition of Creativity and Innovation „Euroinvent 2016”, 25 – 27 mai 2017, Iași, România, pentru lucrarea *The possibility pf biomolecules nanomanipulation using laser irradiation, autori*: **Cristina-Maria Herghiligiu**, N. Nichita, L. Rocha, D. Scutaru, N. Hurduc
12. *Medalia de aur* la The 21th International Exhibition of Inventics “Inventica 2017” Iași, România, pentru invenția *Interchangeable insole cover for footwear and obtaining process*, autori: Angela Dănilă, Bogdan Sârghie, **Cristina-Maria Herghiligiu**
13. *Medalia de bronz* la The 8th Edition of European Exhibition of Creativity and Innovation „Euroinvent 2016”, Iași, România, 19 – 21 mai 2016, pentru lucrarea *Controlled cell growth on functionalized azo-polysiloxane substrates*, autori: **Cristina-Maria Herghiligiu**, R. Constantinel, B. Donose, N. Branza-Nichita, D. Scutaru, C. Ibănescu, L. Epure, T. Bran, N. Hurduc
14. *Medalia de argint* la The 8th Edition of European Exhibition of Creativity and Innovation, Euroinvent 2016”, 19 – 21 mai 2016, pentru lucrarea *Molecular motors driven stem cell differentiation*, **Cristina-Maria Herghiligiu,** B. C. Donose, V. Teboul, S. Ciobotarescu, A. Caluian, D. Scutaru, C. Ibănescu, N. Hurduc
15. *Medalia de aur* la The XVIII-th International Exhibition of Research, Innovation and Technological Transfer „INVENTICA 2014”, 2 – 4 Iulie 2014, Iași, România, pentru lucrarea *Azo-polisiloxanes capable of athermal photo-fluidization*, **Cristina-Maria Herghiligiu**, N. Hurduc, B. Donose, D. Scutaru, C. Ibănescu, N. Branza-Nichita, L. Rocha
16. *Medalia de bronz* la European exhibition of Creativity and Innovation – EUROINVENT 24 Mai 2014, Iași, România, pentru lucrarea *The first material capable to be fluidized using the light instead of heat,* autori: **Cristina-Maria Păiuș**, N. Hurduc, B. Donose, D. Scutaru, C. Ibănescu, N. Branza-Nichita, L. Rocha

M. Alte realizări semnificative.

- Membru în comisia de admitere pentru studii de licență și master a FICPM "Cristofor Simionescu" (2022 – prezent)
- Membru în comisia de promovare a FICPM "Cristofor Simionescu", studii de licență ((2022 – prezent)
- Membru în comisia de orar a FICPM "Cristofor Simionescu", anul II, licență (2023 – prezent)
- secretar în comisia de finalizare a studiilor universitare de licenţă Știința și Ingineria Polimerilor, FICPM "Cristofor Simionescu" (2021 – prezent)
- secretar în comisia de finalizare a studiilor universitare de master Biomateriale Polimerice și Bioresurser, FICPM "Cristofor Simionescu, (2024 –prezent)
- consilier profesional pentru studenţii din anul II (2016 – prezent);
- membru în comitetul științific și de organizare al concursului „Academician Cristofor Simionescu” (2020 – prezent)
- membru în comisia de organizare a Cercurilor Științifice studențești a FICPM "Cristofor Simionescu", Secțiunea Polimeri Naturali și Sintetici (2022-prezent)
- Membru în asociaţii profesionale - Societatea Română a Chimiştilor Cosmetologi, Asociația “RADU Z. TUDOSE” a Cadrelor Didactice și a Absolvenților Facultății de Inginerie Chimică și Protecția Mediului “Cristofor Simionescu” din Iași (ART-ING)

Data,
Martie 2026

Semnătură,



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Velniciuc Adi-Mihăiță**

A. Teza de doctorat.

Institutie: *Universitatea Tehnică ''Gheorghe Asachi'', Iași, Facultate de Mecanică*
Perioada: 2021-2025
Indrumator: Prof.univ.dr.ing.habil.Bujoreanu Carmen
Titlul tezei: Cercetări privind influența masei și vitezei vehiculelor asupra deplasării podurilor
Titlul: Research on the influence of vehicle mass and speed on bridge displacements

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.

- **Lucrări publicate în reviste de specialitate cotate WOS:**

• Velniciuc, A. M., Bujoreanu C. and Boacă G., (2024), Numerical Analysis Of Vehicle Loads Using Matlab, Environmental Engineering and Management Journal (EEMJ), vol.23, numărul 11, 2379-2388, IF = 0.9/2024

- **Lucrări publicate în volume ale conferințelor indexate BDI:**

• Velniciuc, A. M., Bujoreanu C. and Boacă G., (2024), Numerical Analysis Of Vehicle Loads Using Matlab, Environmental Engineering and Management Journal (EEMJ), vol.23, numărul 11, 2379-2388, IF = 0.9/2024

•Alaci, S., Ciornei, FC., Romanu, IC., Velniciuc, A. M., Bujoreanu, C. (2023), Study of Vibrations of a Cantilever Beam with Uniformly Distributed Mass. In: Doroftei, I., Nitulescu, M., Pisla, D., Lovasz, EC. (eds) Proceedings of SYROM 2022 & ROBOTICS 2022. IISSMM 2022. Mechanisms and Machine Science, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-031-25655-4_11 (SCOPUS)

•Velniciuc, A. M and Bujoreanu, C., (2022), Some analyzes on box girders bridges - literature review , IOP Conference Series: Materials Science and Engineering, Volume 1262, The 10th International Conference on Advanced Concepts in Mechanical

Engineering (ACME 2022), doi:10.1088/1757-899X/1262/1/012039 (Google Scholar, Index Copernicus)

•Oprișan, G., Benchea, M., Bujoreanu, C., Cozmanciuc, R., Romila, C., & Velniciuc, A. M., (2025), Sustainable Materials for Soundproofing of the Educational and Residential Spaces, Proceedings of the XXV International Scientific Conference VSU'2025, Sofia, Bulgaria, ISSN 1314-071X.

- Lucrări publicate în reviste indexate BDI

•Velniciuc, A. M., & Bujoreanu, C., (2023), Loads on Bridges - Overview, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 69 (73), pp. 9-22. doi:10.2478/bipcm-2023-0011 (Google Scholar, Index Copernicus)
•Velniciuc, A. M., & Bujoreanu, C., (2022), Vehicles Loads Influence on Box Girder Bridges, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 68 (72), pp. 41-50. doi:10.2478/bipcm-2022-0013
(Google Scholar, Index Copernicus)
•Velniciuc, A. M., Bujoreanu, C., & Tufescu, A., (2025), Finite Element Analysis of A Scaled Bridge Span: Influence of Vehicle Mass on Displacements, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 71 (75),
pp. 1-13, doi: 10.2478/bipcm-2025-0036 (Google Scholar, Index Copernicus)
•Maftei, A., Pernin T., Coman, B., Bujoreanu, C., & Velniciuc, A. M., (2025), Nvh Investigation on Vehicle Chasis, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 71 (75), pp. 1-13, doi: 10.2478/bipcm-2025-0026 (Google Scholar, Index Copernicus)
•Velniciuc, A. M, Bujoreanu, C., Chicet D. L, Lupescu, Ș. C, Boacă G., (2026), Influence of vehicle mass and speed variation on bridge displacements – a small-scale study, Tehnomus Journal (P - ISSN-1224-029X / E
ISSN-2247-6016), nr 33.

Data, Semnătură,

10.09.2025



Lista de lucrări

Numele şi prenumele: **CAŞCAVAL DAN**

A.Teza de doctorat.

"Separarea compusilor organici din solutii omogene prin extracţie reactivă" (1997),
- conducător ştiinţific Acad. Prof.dr.doc.ing. Radu Tudose.

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

1. Anca-Irina Galaction, Dan Cascaval, Separation of biosynthetic products by pertraction, in Progress in Molecular and Environmental Bioengineering - From Analysis and Modeling to Technology Applications (Editor Angelo Carpi), InTech, Rijeka, 2011, (ISBN 978-953-307-268-5).
2. Dan Cascaval, Anca-Irina Galaction, Daniel Boldureanu, Applications of pertraction in biotechnology, in Encyclopedia of Membrane Science and Technology, vol. 3 (Editors Eric M.V. Hoek, Volodymyr V. Tarabara), Wiley, 2013, 1981-2033 (ISBN 978-0-470-90687-3).
3. Dan Caşcaval, Oxygen Mass Transfer in Bioreactors, in Comprehensive Biotechnology, vol. 2 (Editor M. Moo-Young), Elsevier: Pergamon, 2019.
4. Silvia Curteanu, Elena-Niculina Drăgoi, Alexandra Cristina Blaga, Anca-Irina Galaction, Dan Cascaval, Neuroevolutive algorithms applied for modeling some biochemical separation processes, in Methods in Molecular Biology – Artificial Neural Networks, Editia 3, (Editor Hugh Cartwright), Humana Press: Springer Nature, Oxford, 2021.

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

1. Corneliu Oniscu, Dan Cascaval, Inginerie biochimica si biotehnologie. 1. Ingineria proceselor biotehnologice, Ed. InterGlobal, 2002, Iasi (ISBN 973-99683-3-3) (451 pg.)
2. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Inginerie biochimica si biotehnologie. 2. Bioreactoare, Ed. InterGlobal, 2002, Iasi (ISBN 973-99683-4-1) (240 pg.)
3. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Inginerie biochimica si biotehnologie. Procese de separare, Ed. Performantica, 2003, Iasi (ISBN 973-7994-23-X) (321 pg.)
4. Anca-Irina Galaction, Dan Cascaval, Metaboliti secundari si bioreactoare, Ed. BIT, 2004, Iasi (ISBN 973-9327-84-2) (316 pg.)
5. Anca-Irina Galaction, Dan Cascaval, Metaboliti secundari cu aplicatii farmaceutice, cosmetice si alimentare, Casa de Editura Venus, 2006, Iasi (ISBN 973-756-000-0) (383 pg.)
6. Corneliu Oniscu, Anca-Irina Galaction, Dan Cascaval, Comportarea reologica a lichidelor de fermentatie, in Noutati in biotehnologie (Editor Ioan F. Dumitru), Ed. Ilex, 2001, Bucuresti (ISBN 973-99015-1-4) (71 pg.)
7. Corneliu Oniscu, Dan Cascaval, Anca-Irina Galaction, Procese de transfer in bioreactoare, in Pogrese in biotehnologie (Editori Ioan F. Dumitru, Nicolae Toma), Ed. Ars Docendi, 2001, Bucuresti (ISBN 973-8118-69-7) (80 pg.)
8. Dan Cascaval, Anca-Irina Galaction (Editori), Biotehnologie intre stiinta si arta, Casa de Editura Venus, Iasi, 2007 (ISBN 978-973-756-052-0) (408 pg.)
9. Dan Cascaval, Anca Irina Galaction, Bioprocese in industria alimentara si farmaceutica, Ed. Gr. T. Popa, Iasi, 2014 (258pg.)

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

1. Dan Cascaval, Bioinginerie, Litografia U.T. Iasi, 1998 (226 pg.)
2. Dan Cascaval, Tehnici de separare si concentrare specifice in ingineria biochimica, Litografia U.T. Iasi, 1999 (123 pg.)

3. Corneliu Oniscu, Dan Cascaval, Eugen Horoba, Adina Dumitrascu, Bioinginerie si Biotehnologie – indrumar pentru lucrari practice, Litografia U.T. Iasi, 2000 (148 pg.)
4. Corneliu Oniscu, Dan Cascaval, Anca-Irina Galaction, Procese biotehnologice. Proteine si enzime - indrumar pentru lucrari practice, Litografia U.M.F. Iasi, 2000 (130 pg.)
5. Dan Cascaval, Florina Ungureanu, Bioreactoare. Monitorizare, Litografia U.M.F. Iasi, 2000 (211 pg.)

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. Dan Cascaval, Radu Tudose, Corneliu Oniscu, Reactive Extraction of Dicarboxylic Acids. II. Selective Extraction, Hungarian Journal of Industrial Chemistry 1997, 25(4), 245-249.
2. Dan Cascaval, Radu Tudose, Corneliu Oniscu, Study on Penicillin G Liquid - Liquid Extraction With and Without Chemical Reaction, Hungarian Journal of Industrial Chemistry 1998, 26(2), 141-146.
3. Dan Cascaval, Corneliu Oniscu, Coca Cascaval, Selective Separation of Penicillin V from Phenoxyacetic Acid Using Liquid Membranes, Biochemical Engineering J. 2000, 5(1), 45-50.
4. Dan Cascaval, Corneliu Oniscu, Comparative Study on Physical and Reactive Extraction of Some Monocarboxylic Acids. I. Correlations for Mass Flow, Hungarian J. of Industrial Chemistry 2000, 28(2), 99-104.
5. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Selective Separation of Amino Acids by Reactive Extraction, Biochemical Engineering J. 2001, 7(3), 171-176.
6. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Florina Ungureanu, Prediction of mixing time for stirred bioreactors, Chemical Industry J., 2001, 55(9), 367-375.
7. Corneliu Oniscu, Anca-Irina Galaction, Dan Cascaval, Florina Ungureanu, Modeling of mixing in stirred bioreactors. 2. Mixing time for non-aerated fermentation broths, Biochemical Engineering J. 2002, 12(1), 61-69.
8. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Fractionation of the mixture obtained by Penicillin G enzymatic hydrolysis, Chemical Industry J., 2002, 56(9), 386-391.
9. Anca-Irina Galaction, Dan Cascaval, Comparative study and modelling of rutin extraction from Hyperici herba and Hippophaeus fructus, Hungarian J. of Industrial Chemistry 2002, 30(3), 193-198.
10. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Florina Ungureanu, Modeling of mixing in stirred bioreactors. 3. Mixing time for aerated simulated broths, Chemical Industry J., 2002, 56(12), 506-513.
11. Anca-Irina Galaction, Dan Cascaval, Rutin extraction from Hardhay flowers and Underbrush fruits, Chemical Industry J., 2003, 57(3), 114-119.
12. Anca-Irina Galaction, Corneliu Oniscu, Dan Cascaval, Studies on oxygen mass transfer in stirred bioreactors. 2. Suspensions of bacteria, yeasts and fungis, Chemical Industry J., 2003, 57(6), 276-287.
13. Dan Cascaval, Anca-Irina Galaction, Corneliu Oniscu, Modeling of selective pertraction of carboxylic acids obtained by citric fermentation, Chemical Industry J., 2004, 58(3), 97-103.
14. Dan Cascaval, Anca-Irina Galaction, Corneliu Oniscu, Florina Ungureanu, Modeling of mixing in stirred bioreactors. 4. Mixing time for aerated bacteria, yeasts and fungus broths, Chemical Industry J., 2004, 58(3), 97-103.
15. Dan Cascaval, Anca-Irina Galaction, Corneliu Oniscu, Selective pertraction of carboxylic acids obtained by citric fermentation, Separation Science and Technology, 2004, 39(8), 1907-1925.
16. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Marius Turnea, Prediction of oxygen transfer coefficients in stirred bioreactors for bacteria, yeasts and fungus broths, Biochemical Engineering J. 2004, 20(1), 85-94.

17. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Marius Turnea, Enhancement of oxygen mass transfer in stirred bioreactors using oxygen-vectors. 1.Simulated fermentation broths, Bioprocess and Biosystems Engineering, 2004, 26(4), 231-238.
18. Dan Cascaval, Anca-Irina Galaction, New extraction techniques on bioseparations. 1.Reactive extraction, Chemical Industry J., 2004, 58(9), 375-386.
19. Anca-Irina Galaction, Dan Cascaval, New extraction techniques on bioseparations. 2.Pertraction, direct extraction, Chemical Industry J., 2004, 58(12), 535-547.
20. Anca-Irina Galaction, Elena Folescu, Dan Cascaval, The effect of n-dodecane addition on oxygen transfer in stirred bioreactors for Saccharomyces cerevisiae broths, Chemical Industry and Chemical Engineering Quarterly, 2005, 11(1), 1-9.
21. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Marius Turnea, Evaluation and modeling of the aerobic stirred bioreactor performances for fungus broths, Chemical and Biochemical Engineering Quarterly, 2005, 19(1), 87-97.
22. Anca-Irina Galaction, Alexandra-Cristina Blaga, Dan Cascaval, The influence of pH and solvent polarity on the mechanism and efficiency of folic acid extraction with Amberlite LA-2, Chemical Industry and Chemical Engineering Quarterly, 2005, 11(2), 63-68.
23. Anca-Irina Galaction, Dan Cascaval, Marius Turnea, Elena Folescu, Enhancement of oxygen mass transfer in stirred bioreactors using oxygen-vectors. 2. Propionibacterium shermanii broths, Bioprocess and Biosystems Engineering, 2005, 27(4), 263-271.
24. Dan Cascaval, Anca-Irina Galaction, Elena Folescu, Marius Turnea, Comparative study on the effects of n-dodecane addition on oxygen transfer in stirred bioreactors for simulated, bacterial and yeasts broths, Biochemical Engineering Journal 2006, 31(1), 56-66.
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26. Dan Cascaval, Anca-Irina Galaction, Alexandra-Cristina Blaga, Maria Camarut, Comparative study on reactive extraction of nicotinic acid with Amberlite LA-2 and D2EHPA, Separation Science and Technology 2007, 42(2), 389-401.
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29. Corneliu Oniscu, Dan Cascaval, Eugen Horoba, Adina Dumitrascu, Studiul procesului de separare a penicilinei V prin extractie reactiva, Revista de Chimie 1993, 44(12), 1021-1025.
30. Corneliu Oniscu, Eugen Horoba, Dan Cascaval, Adina Dumitrascu, Kinetic Study on Saponification of Methyl 2-Chloro-dimethylamidosulphonyl-phenoxyacetate, Buletin I. P. Iasi 1993, 39(1-4), 115-120.
31. Corneliu Oniscu, Dan Cascaval, Violeta Lungu, Mathematical Modelling of Process of Penicillin V Separation from Aqueous Phase by Reactive Extraction, Buletin I. P. Iasi 1994, 40(1-4), 71-76.
32. Corneliu Oniscu, Radu Tudose, Dan Cascaval, Study on Separation of Organic Compounds by Reactive Extraction. I. Study on Separation of Penicillin G, Revue Roumaine de Chimie 1994, 39(11), 1343-1350.
33. Corneliu Oniscu, Dan Cascaval, Coca Cascaval, Adina Dumitrascu, Mathematical Modelling of Penicillin G Separation from Aqueous Phase by Reactive Extraction, Revue Roumaine de Chimie 1996, 41(7-8), 669-673.
34. Corneliu Oniscu, Coca Cascaval, Dan Cascaval, Corelatia dintre concentratia biomasei - comportare reologica - oxigen dizolvat pentru suspensii de P. Chrysogenum, Revista de Chimie 1996, 47(6), 524-528.

35. Corneliu Oniscu, Dan Cascaval, Studies on Separation of Biosynthesis Products by Reactive Extraction, Roumanian Biotechnological Letters 1996, 1(1), 23-33.
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37. Adina Dumitrascu, Corneliu Oniscu, Gh. Surpateanu, Eugen Horoba, Dan Cascaval, Etude theoretique de la reactivite de quelques derives de l'acide phenoxiacetique en reaction avec l'acid chlorsulphonique, Buletin I. P. Iasi 1996, 42(1-2), 91-97.
38. Dan Cascaval, Corneliu Oniscu, Liquid-Liquid Extraction of Butanol Directly from fermentation Broths. II. Mathematical Correlation for Mass Transfer Coefficients, Roumanian Biotechnological Letters 1996, 1(2), 139.
39. Dan Cascaval, Corneliu Oniscu, Radu Tudose, Adina Dumitrascu, Studiul separarii compusilor organici prin extractie reactiva. III. Stabilirea corelatiei intre coeficientul individual de transfer de masa al penicilinei G in faza apoasa si parametrii procesului, Revista de Chimie 1996, 47(8), 758-763.
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46. Corneliu Oniscu, Coca Cascaval, Dan Cascaval, Alexandru Chichirau, Modeling of Process of Penicillin V Extraction and Transport Through a Liquid Membrane, Roumanian Biotechnological Letters 1997, 2(6), 503-510.
47. Dan Cascaval, Corneliu Oniscu, Eugen Horoba, Adina Dumitrascu, Study on Separation of Organic Compounds by Reactive Extraction. IV. Mathematical Modelling of Process of Glutamic Acid Separation from Aqueous Phase, Buletin I.P. Iasi 1997, 43(1-2), 111-117.
48. Dan Cascaval, Corneliu Oniscu, Coca Cascaval, Determinarea coeficientilor de transfer de masa ai penicilinei G in procesul de scindare enzimatica la acid 6-aminopenicilanic, Revista de Chimie 1997, 48(10-11), 863-867.
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50. Corneliu Oniscu, Coca Cascaval, Dan Cascaval, Adina Dumitrascu, Al. Chichirau, Reactive Extraction of Penicillin G Directly from Fermentation Broths. II.b. Modeling of Extraction Process Penicillium Chrysogenum Suspensions, Roumanian Biotechnological Letters 1998, 3(1), 55-63.
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63. Dan Cascaval, Corneliu Oniscu, Lucia Dima, Coca Cascaval, Selective Separation of Penicillin G from Phenylacetic Acid by Reactive Extraction, Roumanian Biotechnological Letters 1999, 4(6), 527-533.
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G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. Dan Cascaval, Corneliu Oniscu, Adina Dumitrascu, Mathematical Correlation Between Mass Transfer Coefficients and Parameters Influencing the Penicillin G Reactive Extraction, Southern Brazilian Journal of Chemistry 1995, 3(3), 37-54.
2. Corneliu Oniscu, Adina Dumitrascu, Eugen Horoba, Dan Cascaval, Synthesis of Some Theophylline Derivatives, Southern Brazilian Journal of Chemistry 1996, 4(4), 83-91.
3. Dan Cascaval, Radu Tudose, Corneliu Oniscu, Reactive Extraction of Dicarboxylic Acids. I. Mechanism, Limiting Steps and Kinetic, Southern Brazilian Journal of Chemistry 1997, 5(5), 97-110.
4. Adina Dumitrascu, Mircea Constantinescu, Corneliu Oniscu, Dan Cascaval, Synthesis study of new 2-substituted imidazolines with potential hypotensive activity, Southern Brazilian Journal of Chemistry 1998, 6(7), 83-90.

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

1. Dan Caşcaval, Anca-Irina Galaction, Alexandra-Cristina Blaga, Corneliu Oniscu, Non-conventional techniques for producing additives used in cosmetics - separation of vitamin C by reactive extraction, SRCC Magazine 2005, 5(2), 16-20.
2. Alexandra-Cristina Blaga, Anca-Irina Galaction, Dan Cascaval, Mathematical modeling of folic acid facilitated pertraction, Scientific Study&Research 2005, VI(2), 211-219.
3. Anca-Irina Galaction, Dan Caşcaval, The “magic” of secondary metabolites between present and promises, SRCC Magazine 2006, 6(1), 23-28.
4. Dan Caşcaval, Anca-Irina Galaction, Maria Cămăruţ, Alexandra-Cristina Blaga, Non-conventional techniques for producing additives used in cosmetics 2. Separation of nicotinic acid by reactive extraction-kinetic study of the interfacial reactions, SRCC Magazine 2006, 6(2), 28-37.
5. Mădălina Poştaru, Corina Cheptea, Gladiola Andruşeac, Dan Caşcaval, Anca-Irina Galaction, Methylbenzylamine – Applications, production, separation, Buletin IPI 2015, 61(1), 9-21.
6. Lenuţa Kloetzer, Alexandra Cristina Blaga, Alexandra Tucaliuc, Anca-Irina Galaction, Dan Caşcaval, Acetophenone applications, production and separation, Buletin IPI 2015, 61(1), 67-79.
7. Mădălina Poştaru, Dan Caşcaval, Anca-Irina Galaction, Pantothenic acid – aplications, synthesis and biosynthesis, Revista Medico-Chirurgicala 2016, 119(3), 938-943.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Dan Cascaval, Corneliu Oniscu, Extraction and transport of biosynthetic products through liquid membranes, Proceedings of Multiphase Flow and Tranport Phenomena Symposium 2000 Antalya, 288-298.

2. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, New extraction techniques of biosynthetic products. I. Reactive extraction of amino acids, Proceedings of The 28th Conference of Slovak Society of Chemical Engineering 2001, 213-219.

3. Corneliu Oniscu, Dan Cascaval, Anca-Irina Galaction, New extraction techniques of biosynthetic products. II. Selective separation of Penicillin V using liquid membranes, Proceedings of The 28th Conference of Slovak Society of Chemical Engineering 2001, 302-309.

4. Anca-Irina Galaction, Corneliu Oniscu, Dan Cascaval, New bioseparation techniques of beta-lactamic antibiotics. Selective separation of 6-aminopenicillanic acid, Proceedings of The 11th Panhellenic Pharmaceutical Congress Atena, 2003.
5. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, F. Topoliceanu, New techniques for bioactive compound separation. Selective extraction of 6-aminopenicillanic acid, The 10th Mediterranean Conference of the International Federation for Medical and Biological Engineering MEDICON, Napoli, 2004.
6. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Marius Turnea, Modelling of oxygen transfer in stirred bioreactors for bacteria, yeasts and fungus broths, 16th International Congress of Chemical and Process Engineering CHISA, Praga, 2004.
7. Dan Cascaval, Anca-Irina Galaction, Corneliu Oniscu, Fractionation of carboxylic acids obtained by citric fermentation using facilitated pertraction, 16th International Congress of Chemical and Process Engineering CHISA, Praga, 2004.
8. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Enhancement of oxygen mass transfer in stirred bioreactors for simulated fermentation broths, 7th World Congress of Chemical Engineering SECC Glasgow, 2005.
9. Elena Folescu, Anca-Irina Galaction, Dan Cascaval - Intensification of oxygen transfer in stirred bioreactors using oxygen-vectors for yeasts broths, Jordan International Chemical Engineering Conference V, Amman, 2005.
10. Alexandra-Cristina Blaga, Anca-Irina Galaction, Dan Cascaval – Studies on vitamin C separation by reactive extraction with Amberlite LA-2, Jordan International Chemical Engineering Conference V, Amman, 2005.
11. Alexandra-Cristina Blaga, Dan Cascaval, Anca-Irina Galaction – Separation of some hydrosoluble vitamins by extraction and transport through liquid membranes, 33rd International Conference of Slovak Society of Chemical Engineering, Tatranska Matliare, 2006.
12. Anca-Irina Galaction, Elena Folescu, Marius Turnea, Dan Cascaval – Comparative analysis of mixing efficiency for different radial impellers in non-aerated yeasts cultures, 33rd International Conference of Slovak Society of Chemical Engineering, Tatranska Matliare, 2006.
13. Corneliu Oniscu, Eugen Horoba, Dan Cascaval, Adina Dumitrascu, Epurarea biologica a apelor uzate rezultate in finisarea fibrelor vegetale, Simpozionul National de Chimia Colorantilor ColSinTex '92 Iasi, 377-384.
14. Dan Cascaval, Corneliu Oniscu, Separarea selectiva a antibioticelor beta-lactamice prin membrane lichide, Lucrarile Simpozionului SICHEM '98 Bucuresti, 232-238.
15. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Separarea produselor de biosinteza prin extractie reactiva. Fractionarea amestecurilor de aminoacizi, Lucrarile Simpozionului SICHEM 2000 Bucuresti, 9-15.
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17. Corneliu Oniscu, Anca-Irina Galaction, Dan Cascaval, Florina Ungureanu, Mixing time for stirred bioreactors. 1. Non-aerated simulated broths, Proceedings of Roumanian International Conference on Chemistry and Chemical Engineering 2001 Bucuresti.
18. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Florina Ungureanu, Mixing time for stirred bioreactors. 2. Non-aerated fermentation broths, Proceedings of Roumanian International Conference on Chemistry and Chemical Engineering 2001 Bucuresti
19. Dan Cascaval, Corneliu Oniscu, Anca-Irina Galaction, Selective separation of 6-aminopenicillanic acid, Proceedings of the 3rd International Conferences of the Chemical Societies of the South-Eastern European Countries 2002 Bucuresti
20. Corneliu Oniscu, Anca-Irina Galaction, Dan Cascaval, Prediction of mixing time for aerobic stirred bioreactors, Proceedings of the 3rd International Conferences of the Chemical Societies of the South-Eastern European Countries 2002 Bucuresti

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22. Anca-Irina Galaction, Dan Cascaval, Corneliu Oniscu, Studies on oxygen mass transfer in stirred bioreactors, The 13rd Roumanian International Conference on Chemistry and Chemical Engineering 2003 Bucuresti, 7-12.
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24. Elena Folescu, Anca-Irina Galaction, Alexandra-Cristina Blaga, Dan Cascaval, Comparative study on oxygen transfer in P. shermanii and S. cerevisiae broths in presence of oxygen-vectors, Romanian International Conference on Chemistry and Chemical Engineering RICCCE 14 2005 Bucuresti, 108-115.
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29. Anca-Marcela Lupăsteanu, Anca-Irina Galaction, Marius Turnea, Dan Cascaval – Distribution of mixing efficiency in bioreactors with stirred beds of immobilized yeasts cells, Proceedings of European BioPerspectives 2008, Hannover, October 7-9, 2008.
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37. Madalina Postaru, Anca-Irina Galaction, Alexandra Carlescu, Dan Cascaval, Facilitated pertraction of cinnamic acids, Proceed. of the 3rd International Conference E-Health and Bioengineering, EHB 2011, Iasi, 379-382 (indexat ISI).
38. Anca-Irina Galaction, Marius Turnea, Larisa Rumelea, Dan Cascaval, External and internal mass transfer in biocatalyst particle for a stationary basket bioreactor, Proceed. of the 3rd International Conference E-Health and Bioengineering, EHB 2011, Iasi, 383-386 (indexat ISI).
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40. A.C. Blaga, L. Kloetzer, M. Postaru, A.I. Galaction, D. Caşcaval - Selective separation of ascorbic acid from (bio)synthesis media by extraction an transport through liquid membrane, International Proceedings of Chemical, Biological & Environmental Engineering. IV – Food Engineering and Biotechnology, IACSIT PRESS, vol. 50, 2013, 69-73 (indexat ISI).

J. Invenţii.

1. Corneliu Oniscu, Veniamin Munteanu, Minodor Cojocaru, Dan Cascaval, Constantin Poncu, Adina Dumitrascu, Procedeu de separare a sarurilor de penicilina G din solutie apoasa, Brevet RO 107410 B1/30.11.1993
2. Corneliu Oniscu, Eugen Horoba, Adina Dumitrascu, Dan Cascaval, Derivati ai 3-(dimetilamidosulfonil-R-fenoxiacetil)-fenitoinei si procedeu pentru prepararea acestora, Brevet RO 107941 B1/31.01.1994
3. Corneliu Oniscu, Virgiliu Bancila, Corneliu Ionescu, Viorica Botezatu, Dan Cascaval, Un nou procedeu de obtinere a esterilor acidului 2,4-diclorfenoxiacetic, Brevet RO 112276 B1/30.07.1997
4. Corneliu Oniscu, Virgiliu Bancila, Dan Cascaval, Adina Dumitrascu, Procedeu de obtinere a 2-clor-benzensulfonamidei, Brevet RO 112861/1997
5. Corneliu Oniscu, Virgiliu Bancila, Adina Dumitrascu, Dan Cascaval, Procedeu de obtinere a 2,6-diclor-6-metil-s-triazinei, Brevet RO 119301 B1/2004.
6. Dan Cascaval, Corneliu Oniscu, Procedeu de indepartare a acizilor carboxilici secundari din solutiile apoase rezultate de la fermentatia citrica, Brevet RO 119629 B1/2005
7. Dan Cascaval, Corneliu Oniscu, Coca Cascaval, Instalatie pentru studiul extractiei si transportului printr-o membrana lichida, Brevet RO119690 B1/2005
8. Corneliu Oniscu, Veniamin Munteanu, Minodor Cojocaru, Dan Cascaval, Procedeu de recuperare a bromului din apele reziduale care contin bromura de potasiu sau bromura de sodiu, Cerere brevet OSIM 01126/12.06.1995
9. Radu Tudose, Dan Cascaval Instalatie pentru studiul transferului de masa in extractia lichid - lichid, Cerere brevet OSIM 01049/22.05.1996
10. Dan Caşcaval, Anca-Irina Galaction, Lenuţa Kloetzer, Alexandra Cristina Blaga, Procedeu de separare a benzilmetilaminei, Cerere Brevet OSIM A/00701/19.09.2014
11. Anca-Irina Galaction, Dan Caşcaval, Mădălina Poştaru, Alexandra Cristina Blaga, Procedeu de separare a acetofenonei, Cerere Brevet OSIM A/00711/22.09.2014
12. Dan Caşcaval, Anca-Irina Galaction, Alexandra Cristina Blaga, Procedeu de separare a acidului pantotenic, Cerere Brevet OSIM A/00109/17.02.2015
13. D. Caşcaval, A.I. Galaction, M. Postaru, A. Tucaliuc, Procedeu de separare a acidului 7-aminocefalosporanic, Patent demand OSIM A/00548/25.07.2018

K. Contracte de cercetare.

1. Studiul posibilitatilor de sinteza si evaluare a unor noi medicamente cu actiune asupra sistemului nervos central - 6825/1990 Beneficiar : S.C. Sintofarm S.A. Bucuresti

2. Obtinerea de noi medicamente ale sistemului nervos central (3 ani) - 1579/1991; Beneficiar: Ministerul Invatamintului si Stiintei
3. Studiul separarii acidului fenilacetic din apele reziduale provenite de la scindarea enzimatica a penicilinei G- 4391/1992; Beneficiar: SC Antibiotice SA Iasi
4. Studiul obtinerii acidului □-(2,4-diclorfenoxi)-butiric si elaborarea tehnologiei de fabricatie - 1171/1993Beneficiar: S.C. CHIMCOMPLEX S.A. Borzesti
5. Sinteza unor derivati ai acizilor fenoxiacetici sulfonamidati cu actiune biologica - 11031/1993 Beneficiar: Universitatea de Medicina si Farmacie "Gr.T. Popa" Iasi
6. Studiul obtinerii esterilor acidului 2,4-diclorfenoxiacetic– 1204/1993; Beneficiar: S.C. CHIMCOMPLEX S.A. Borzesti
7. Studii privind cristalizarea sarurilor penicilinei G prin antrenare azeotropa a apei – 1479/1993; Beneficiar: S.C. Antibiotice SA Iasi
8. Cercetari privind obtinerea de noi medicamente cu actiune analgezica - antitermica, derivati de p-aminofenol- 4303/1994 Beneficiar: S.A. Sintofarm Bucuresti
9. Obtinerea de noi medicamente ale sistemului nervos central - 587B/1994; Beneficiar: Ministerul Invatamintului
10. Cercetari asupra fabricarii a clorsulfuronului- 985/1995; Beneficiar : S.C. CHIMCOMPLEX S.A. Borzesti
11. Biotehnologia purificarii apelor reziduale rezultate de la topitoriile de in si cinepa (4 ani)- 556B/1995; Beneficiar: Ministerul Cercetarii si Tehnologiei
12. Studiul recuperarii bromului din apele reziduale - 2013/1995 Beneficiar: SC Antibiotice SA Iasi
13. Studiul conditiilor de obtinere a unor noi derivati cu actiune cardiovasculara (2 ani)- Grant 564/1996; Beneficiar: Ministerul Invatamintului
14. Studiul obtinerii 2,6-diclor-6-metil-s-triazinei- 1033/1966; Beneficiar: S.C. CHIMCOMPLEX S.A. Borzesti
15. Cercetari privind obtinerea de noi derivati heterociclici ai acizilor fenoxialchil-carboxilici sulfonamidati cu potentiala actiune biologica - contract nr. 34280/1999, nr.tema 28, cod 127 Beneficiar: Ministerul Educatiei Nationale
16. Procedee si tehnici moderne in ciberbiotehnologie (3 ani) - contract CNCSIS 41891/1999 cu Banca Mondiala, valoare 150.000 $
17. Studiul procedeelor neconventionale de separare cu aplicatii in biotehnologie (3 ani)- grant CNCSIS nr. 35259/2001, cod 55, tema 310
18. Modelarea si optimizarea performantelor bioreactoarelor cu amestecare mecanica (3 ani)- grant CNCSIS nr. 33479/2002, cod 179, tema 55
19. Imbunatatirea performantelor bioreactoarelor prin utilizarea oxigen-vectorilor in procesele biotehnologice de obtinere a antibioticelor, vitaminelor si proteinelor - grant CNCSIS nr. 27675/2005, cod 1220
20. Cresterea eficientei biotehnologiilor prin utilizarea procedeelor avansate de bioseparare – separarea cu membrane lichide (pertractie) a produselor naturale (3 ani)- grant CNCSIS nr. 27637/2005, cod 422
21. Imbunatatirea performantelor bioreactoarelor prin utilizarea oxigen-vectorilor in procesele biotehnologice de obtinere a antibioticelor, vitaminelor si proteinelor (3 ani) - grant CNCSIS nr. 277635/2005, cod 1220
22. Retea integrata pentru managementul durabil al resurselor de apa (3 ani)- grant CEEX nr. 115/2006 (SIWMANET)
23. Grant PNCDI 2 - Parteneriate: Fotocatalizatori pentru productia de hidrogen si combustibili din biomasa si ape reziduale (Photofuels), cod 1210
24.Grant PNCDI 2 - Idei: Separarea avansata prin pertractie (extractie prin membrane lichide) a compusilor de biosinteza cu utilizari medicale, alimentare si cosmetice - prioritate in contextul actual al biotehnologiei albe, cod 317

25. Advanced separation of biosynthetic compounds by facilitated and synergetic pertraction, PCE - IDEI PN-II-ID-PCE-2011-3-0088
26. Development of novel stereoselective biocatalysts for economic synthesis of chiral building blocks, PN-II-PT-PCCA-2011-3.1-1268
27. Microscale downstream processing toolbox for screening and process development (*MICROTOOLS*) (P1 - Coodonator: University College London, P2: Technical University of Denmark, P3: Svanholm Company Denmark, P4: Prof.dr.ing. Dan Caşcaval TUIasi, P5: UMF Iasi); grant ERA-NET, ERA-IB, contract nr. 6-002/2013 (valoare totala P4: 200.000 Euro)
28. Dezvoltarea platformei de cercetare pentru energie eficientă şi durabilă – ENERED (POSCCE-A2-O2.2.1-2009-4, ID nr. 911) (2012-2015) ((Responsabil Grup Biocombustibili; valoare Grup: 600.000 Euro)
29. Sisteme hibride fermentatie/reactie enzimatica-pertractie sinergica pentru productia de compusi chimici cu aplicatii farmaceutice, cosmetice si alimentare, PN-III-P4-PCE-2016-0100

L. Premii, distincţii.

Medalie de aur Eureka Brussels 1996, Medalie de bronz Inventica Iasi 1996
Medalie Onorifica a Univ. de Medicina si Farmacie "Gr.T. Popa" Iasi, 1999
Medalie de argint Inventica Iasi 2000,
Medalie de aur cu Mentiunea Speciala a Juriului Eureka Brussels 2001, Medalie de aur Eureka Brussels 2001, Medalie de argint Eureka Brussels 2001, Diploma Preprint Pioneer ChemWeb 2001,
Medalie de aur cu Mentiunea Speciala a Juriului Salonul de Inventica Iaşi 2002, Medalie de aur Salonul de Inventica Iaşi 2002, Medalie de Argint Salonul de Inventica Novisad 2002,
Diploma InfoInvent Chisinau 2003,
Medalie de aur cu Mentiunea Speciala a Juriului Salonul de Inventica Iaşi 2004, Medalie de aur Salonul de Inventica Iaşi 2004, 2 Medalii de Argint Salonul de Inventica CHIM-INVENT 2005.
Marele Premiu Euroinvent 2009, Medalia de Aur cu Mentiunea Juriului Euroinvent 2009, 2 Medalii de Aur Euroinvent 2009, Medalia de Argint a Delegatiei Ucrainei Euroinvent 2009,
Diploma de Onoare a Societatii de Chimie din Romania, 2009, 4 Medalii de Aur Euroinvent 2010, 1 Medalie de Bronz Euroinvent 2010, Medalia de Aur a Delegatiei Ucrainei Euroinvent 2010, Medalia de Aur a Delegatiei Croatiei Euroinvent 2010, Medalia de Argint AGEPI Euroinvent 2010, Medalie de Bronz Salonul INVENTIKA Bucuresti 2010,
3 Medalii de Aur Euroinvent 2011; Medalie "Inventica" 2012;
Diploma de Excelenta Euroinvent 2013; Medalia de Aur "The Hamangia Thinker", Inventica 2013; 2 Medalii de Aur Inventica 2013; 2 Medalii CHIM-INVENT 2013; Medalia P. Poni, CHIM-INVENT 2013;
Diploma de Onoare a Univ. de Medicina si Farmacie "Gr.T. Popa" Iasi, 2014;
3 Medalii de Aur Euroinvent 2015; 1 Medalie de Argint Euroinvent 2015;
Premiul de Excelenţă al Universităţii Tehnice "Gheorghe Asachi" din Iaşi pentru echipe de cercetare 2015;
Premiul Academiei Romane 2015, Stiinte Chimice - Nicolae Teclu;
2 Medalii de Aur Infoinvent 2017;
3 Medalii de Aur Euroinvent 2018;
8 Medalii de Aur Euroinvent 2019-2025.

M. Alte realizări semnificative.

- Managing Editor al Buletinului Institutului Politehnic din Iasi, Sectiunea Chimie si Inginerie Chimica
- Membru in Editorial Board al:
  - Journal of Industrial Microbiology & Biotechnology (Springer)
  - Roumanian Biotechnological Letters
  - Scientific Journals International
- Membru in colectivele de referenti stiintifici ai revistelor de specialitate

Biotechnology Progress (American Chemical Society)
Separation Science and Technology (Taylor&Francis.)
Biochemical Engineering Journal (Elsevier)
Enzyme and Microbial Technology (Elsevier)
Chemical Industry&Chemical Engineering Quarterly
Chemical Engineering Communications

- Rector al al Universităţii Tehnice "Gheorghe Asachi" din Iaşi (2016-prezent)
- Decan al Facultătii de Inginerie Chimică si Protecia Mediului (2008-2016)
- Director Executiv Scoala Doctorala de Inginerie Chimica (din 2005)
- Secretar Stiintific al Facultatii de Inginerie Chimica (1.03.2004 - 15.11.2005)
- Sef Catedra Inginerie Organica si Biochimica (din 2005)
- Membru in Comisia de Inginerie Chimica a Academiei Romana Filiala Iasi
- Expert evaluator CNCSIS din 2004
- Expert evaluator CEEX din 2005

Data,

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UNIVERSITATEA TEHNICĂ “GHEORGHE ASACHI” DIN IAŞI

FACULTATEA: *INGINERIE CHIMICĂ ŞI PROTECŢIA MEDIULUI „CRISTOFOR SIMIONESCU*”

Domeniul de doctorat: Inginerie Chimică

lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic
Lista de lucrări în domeniul INGINERIE CHIMICA

Numele şi prenumele: **HARJA MARIA**

A. Teza de doctorat.

Titlul tezei de doctorat: Contribuţii la modelarea proceselor dizolvare – reacţie gaz-lichid, susţinută public 2.12.1999

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L. Premii, distincţii.

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2. Medalia de aur – The top 1% of reviewers in each field who performed the most verified pre-publication peer reviews on Publons for Publons Peer Review Awards 2017, https://publons.com/awards/field/?name=Harja%20Maria&asjc=108
3. Medalia Targului INVENT-INVEST 2017, 12-15 nov. 2017, Ungheni, R. Moldova, Ciobanu G., Harja M., Firat S., Grudeva P., Lazarov A., Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities
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6. Medalie argint - Synthesis, characterization and photocatalytic activity of new oxidic nanostructures, Amalia Maria SESCU, Lidia Favier, Doina Lutic, Gabriela Ciobanu, Maria Harja, EUROINVENT, 17-19 May 2018, www.euroinvent.org
7. Medalie bronz - Contributions to process modeling in solid fluid systems, Loredana LITU, Gabriela CIOBANU, Olga KOTOVA, Maria HARJA, , EUROINVENT, 17-19 May 2018, www.euroinvent.org
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14. Medalie de argint Euroinvent 2025, High Chemical Resistance in Environmentally Friendly Materials, Mihaela Caftanachi, Mihai Vrabie, Maria Harja*
15. Diploma with honor „Creative regions and innovative education – Hubs for the future", INVENT-INVEST 2025″ Innovation Workshop and Exhibition, an international event

M. Alte realizări semnificative

1. 2024_PREMIILE PENTRU EXCELENȚĂ ÎN CERCETAREA ȘTIINȚIFICĂ - Premiul pentru atragerea celor mai multe fonduri private pentru cercetarea științifică, Prof.habil.dr.ing. Maria HARJA, Facultatea de Inginerie Chimică și Protecția Mediului Cristofor Simionescu; suma atrasă: 204377.85 lei

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https://www.adscientificindex.com/top-100-scientist/?s=50&tit=Engineering+%26+Technology&country_code=ro
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Membru in Comitetul sectiunii de Chimie Anorganica si Bioanorganica, https://schr.ro/organizare/sectii/chimie-anorganica/

Membru în colective de redacţie ale revistelor - Editorial board

1. Smart Materials in Environmental Science, https://www.mdpi.com/journal/materials/special_issues/smart_materials_environmental_science
2. Synthesis and Applications of Nanoparticles, https://www.mdpi.com/journal/materials/special_issues/Syn_Appl_Nanoparticles
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31. Review Editor in Frontiers in Materials - Structural Materials, https://loop.frontiersin.org/people/1042066/overview
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MEMBRU ASOCIATII:

1. Societatea de Chimie din România,
2. Societatea de Inginerie Chimică
3. Asian Chemical Society (AChemS)
4. Science publishing group - http://membership.sciencepublishinggroup.com/mariaharja
5. European Coatings - European network for the entire paint industry
6. The Water Network | by AquaSPE
7. American Society of Civil Engineers (ASCE)
8. Civil/structural engineering network
9. European Coatings Suppliers Hub
10. Silvaco Academy b group – octombrie 2020
11. International Council on Materials Education, https://icme.unt.edu/members
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14. https://www.americanromanianacademy.org/copy-of-list-of-members
15. https://www.americanromanianacademy.org/full-members
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Comitet organizare conferinte

Fourth International Conference on Energy Engineering and Environmental Protection (EEEP2019) will be held on November 19-21, 2019 in Xiamen, China, http://www.iceeep.org/OC.aspx

International Advisory Board - ICON 2019 – International Conference of Recent Trends in Construction Materials and Structures 19-20 Sept 2019 https://vit.ac.in/icon/members.html

The Second International Workshop on Environment and Geoscience (IWEG 2019 - http://www.iwegconf.org/RL.aspx

2021 Int. Conference on Materials: Advanced and Emerging Materials, 22–24 Nov.2021: https://sciforum.net/event/2021icm-cn?section=#ac
3RD International Conference on Process Equipment, Mechatronics Engineering and Material Science_ 7-8 September 2024, in Wuhan, China_ http://pemeconf.com/Members.html
Scientific Committee, Materials, Structures, Technologies and Management in Civil and Environmental Engineering, Poland 2024, https://wb.pcz.pl/nauka/mstm/scientific-committee
Scientific Committee, Annual International Congress on Chemistry, February 20-21, 2025_ Oxford, United Kingdom / Online, www.chemrtc.com, https://chemrtc.com/scientific-committee-member/?pdb=2194
Organizing Committee 13th International Conference on Environmental Engineering and Management, 17 – 20 September 2025, Iași – Romania, https://www.iceem.tuiasi.ro/?page_id=201
Scientific Committee, Materials, Structures, Technologies and Management in Civil and Environmental Engineering 2025, Poland: https://wb.pcz.pl/nauka/mstm/scientific-committee
Organizing Committee of the 3rd Global Summit on Recycling and Waste Management, which will take place on June 08–09, 2026, in Rome, Italy. More information: Recycling 2026, https://www.timesscientificgroup.com/events/recycling-waste-management-2026
Organizing Committee of the Global Congress on Material Science and Engineering (MSECON2026), which will be held in Dubai, UAE during October 19-21, 2026, https://materialsscience.synergiasummits.com/committee,
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Reviewer pentru 56 jurnale, 1002 review-uri facute
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Data,

03.03.2026



Lista de lucrări în domeniul de studii universitare de licență
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Titlul tezei: Gabriela Lisă, *„Studii în extracţia lichid-lichid*", 179 pg., anul 2000.
Titlul: DOCTOR in Inginerie Chimică, diploma seria B nr. 0004203, Ordin MEC 3467/16.03.2001

Teza de abilitare

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

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

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- Articole publicate în reviste cotate ISI

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

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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	The kinetic study of the drying process of food industry waste	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	poster	”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 INTERNAȚIONAL 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,

3.03. 2026

Semnătură,

Anexa

II.7.9 - Liste de lucrări cadre didactice

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 ştiinţifice în domeniul disciplinei acreditate
(selectate in culoare albastra)

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) (B1, B4, B5, B13)

(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.
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- 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.
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Environmental Protection Conference, 15-17 November, 2018, Timisoara, Romania (conferinta internationala): 255-259.

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(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
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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

Anexa A.3.1.8. Lista de lucrări, cadre didactice

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA

Prof.univ.dr. Florin-Alexandru Luca

A. Teza de doctorat - domeniul de studii universitare de doctorat: Management

2001: ADAPTAREA OFERTEI DE PRODUSE SI SERVICII ALE INTREPRINDERII INDUSTRIALE LA CERINTELE PIETEI

Teza de abilitare – domeniul de studii universitare de doctorat: Marketing

2016: BRANDING, DEZVOLTARE DURABILA SI INTERDISCIPLINARITATE, COORDONATE MODERNE IN MARKETING

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

1. Ciobanu, C.I., **Luca F.A.** *Tendinţe în marketing : în contextul dezvoltării tehnologiilor informaţionale*. Editura Performantica, Iași, 2023**,** ISBN 978-630-328-057-8
2. Filipeanu D. Simin D., **Luca, F.A.,** *Administrarea unei afaceri. Proceduri de achizitie,* Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN 978-606-582-098-2 221p.
3. Dabija R, Filipeanu D., Anton C., **Luca F.Al.,** sub coord Mihaescu T, *Management administrativ in spitalele publice* vol1, Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-092-0 293
4. Dabija R, Filipeanu D., Anton C., **Luca F.Al.,** sub coord Mihaescu T, *Management administrativ in spitalele publice* vol2,Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-093-7 196p
5. Dabija R, Filipeanu D., Anton C., **Luca F.Al.,** sub coord Mihaescu T., *Management administrativ in spitalele publice* vol.3,
   Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-094-4 169 p
6. Dabija R, Filipeanu D., Anton C., **Luca F.A.,** sub coord Mihaescu T., *Management administrativ in spitalele publice* vol.4, Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-095-1 175 p

7. Dabija R, Filipeanu D., Anton C., **Luca F.A.,** sub coord Mihaescu T., *Management administrativ in spitalele publice* vol.5,
   Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-096-8 201 p
8. Dabija R, Filipeanu D., Anton C., **Luca F.A.,** sub coord Mihaescu T., *Management administrativ in spitalele publice* vol.6,
   Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2016, ISBN colectie 978-606-582-091-3, ISBN volum 978-606-582-097-5 157 p
9. Filipeanu D, Anton E, **Luca F.A,** *Strategie si management in spitalele publice din Romania. Proceduri financiar-contabile vol I*, Editura Societatii Academice Mateiu Teiu Botez, Iaşi 2015, ISBN 978-606-582-085-2 127 p
10. Filipeanu D, Anton E, **Luca F.A**, *Strategie si management in spitalele publice din Romania. Proceduri financiar contabile vol II,* Editura Societatii Academice Mateiu Teiu Botez, Iaşi, 2015, ISBN 978-606-582-086-9
11. Anton E, Despa M, Filipeanu D, **Luca F.A**, *Management spitalicesc. Proceduri SPCIN vol1,* Editura Societatii Academice Mateiu Teiu Botez, Iaşi, 2015, ISBN 978-606-582-088-3 138 p
12. Anton E, Despa M, Filipeanu D, **Luca F.A** , *Management spitalicesc. Proceduri SPCIN vol2,* Editura Societatii Academice Mateiu Teiu Botez, Iaşi, 2015, ISBN 978-606-582-089-0 146p.
13. **Luca, F.A.,** Munteanu V, *Marketingul afacerilor. Concepte.Metode.Strategii,* Editura Sedcom Libris, Iaşi, **2014** ISBN 978-973-670-056-9, 319p
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2. Țarcă V.; **Luca FA**; Țarcă E. (2024). The Digital Edge: Skills That Matter in the European Labour Market after COVID-19. *Economies*, 12(10), 273; DOI: 10.3390/economies12100273
3. **Luca, FA**; Tiganas, CG; Grigoras-Ichim, CE; Filipeanu, D; Morosan-Danila, L. (2024). Critical Perspectives of Organisational Behaviour towards Stakeholders through the Application of Corporate Governance Principles. *Administrative Sciences*, 14(5), WOS: 001232283200001.
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9. Tarca, V; Tarca, E; Luca, FA (2022). The Impact of the Main Negative Socio-Economic Factors on Female Fertility. *Healthcare,* 10(4), WOS:000787506700001
10. **Luca, FA;** Epuran, G., Ciobanu, CI, Horodnic, AV. (2019). Green Jobs Creation - Main Element in the Implementation of Bioeconomic Mechanisms, *Amfiteatru Economic*, Volume: 21 Issue: 50 Pages: 60-74, WOS:000456190000005
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22. **Luca, F.A.,** Ioan, C., Sasu, C. (2015) *The Importance of the Professional Personal Brand. The Doctors`Personal Brand*, Procedia Economics and Finance 20, pg 350-357 Elsevier - Science Direct, 2015, ISI Proceedings, WOS:000392265200045
23. **Luca F.A.,** Ioan C.AM., Sasu C., Luca A.C., (2015). The Impact of Public Health Care Services on the Patients' Perception as Regards the Health Institutions Brand on the Background of the Health Reform in Romania, *Revista de Cercetare şi Interventie Socială*, ISSN (print): 1583-3410, nr.49 , WOS:000356398700006

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25. **Luca, F.A.,** Ioan C.AM. (2012). Air Quality Management in Iasi City, *Environmental Engineering and Management Journal*, 11(2) ISSN: 1582-9596, WOS:000303276000022
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27. L**uca, F.A**., Ioan C.AM, Butnariu AM. (2011) – *Adaptability of the Romanian Higher Education System to the Technological Development Requirements of the Private Sector, Seen as the Main Workforce Beneficiary*, Proceedings of the 7th International Conference on Management of Technological Changes, Alexandroupolis, Greece, ISBN(vol II) 978-960-99486-3-0, WOS:000306940000095
28. Butnariu AM., Berariu R., **Luca F.A.,** Bertea A. (2011). *Perceived Natural Environmental Uncertainty in Romanian Textile Industry*, Proceedings of the 7th International Conference on Management of Technological Changes, Alexandroupolis, Greece, ISBN(vol II) 978-960-99486-3-0, WOS:000306940000007
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30. **Luca, F.A.,** Cretescu, I. (2010) Management of Northern-Eastern Region of Romania viewed from the perspective of ecoturism development, *Environmental Engineering and Management Journal,* vol.9. no.1. ISSN:1582-9596, WOS:000275701800023

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31. A balancing act: urban regeneration through art & culture, Patrascu Ciuculescu EL, **Luca FA**. (2023). *Cross Cultural Management Journal*, vol.XXV, Issues 2, 141-145
32. Afaf Kouiled A; **Luca, F.A.;** Mahdjouba, H.; Bennouna S. (2023). The role of consumer protection associations in rationalizing consumer purchasing behavior , an exempler of consumer research in state of Ourgla, Alegeria. *Management Intercultural*, vol XXV, Issue 50
33. Martiniuc C.; Mavroudis I; Cibica A.; **Luca F.A.** (2022). Mini-review on some neuropsychiatric perspectives of modern neuromarketing studies DOIarticol10.36219/BPI.2022.2.01, *Buletin de psihiatrie,* Issue 2.
34. Ciuculescu EL.; **Luca FA** (2022). Milestones in the Evolution of Cultural Marketing and Current Challenges, *Management intercultural,* Vol XXIV nr 48/2022
35. Ciuculescu EL.; **Luca FA** (2022). How Can Cultural Strategies and Place Attachment Shape City Branding? *Cross Cultural Management Journal*, Vol XXIV nr 1
36. Butnariu AM, **Luca, F.A** (2021). Triggers of Born Global Companies, *Network Intelligence Studies*, Vol. IX, no. 18 (2/2021) pp. 161 – 169
37. Butnariu A.M. **Luca F.A.** (2020) The Role of Marketing Activities in Reducing Risk for Construction Companies, *SEA Practical Application of Science*, Vol VIII, Issue 24 (3).
38. Vlad V.C., **Luca F.A**. **autor coresp**, ESG Marketing Model: A New Paradigm to Understand the Impact, *SEA Practical Application of Science*, Vol VIII, Issue 22 (1), 2020
39. Vlad V.C., **Luca F.A.,** Delivering Sustainability - Green Marketing Evolution, *Network Intelligence Studies*, Volume VIII, Issue 16, (2), 2020.

40. **Luca, F.A**., Vlad, V.C., Foreign Fighters Phenomenon in the European Union, *Management Intercultural*, vol XX, nr.40, 2018, (REPEC Ideas , EconPapers,DOAJ, EBSCO, ULRICH'S, CEEOL , EBSCO Publishing, INDEX COPERNICUS, EuroInternet.)
41. Vlad, V.C., **Luca, F.A.** autor coresp**,** Brand Attraction: Operative Digital Marketing Strategies and Tactical Application for the Recruitment of Potential Foreign Fighters in Governamental Organizations, *Management Intercultural,* vol XX, nr.40, 2018, (REPEC Ideas , EconPapers,DOAJ, EBSCO, ULRICH'S, CEEOL , EBSCO Publishing, INDEX COPERNICUS, EuroInternet.)
42. Butnariu A., **Luca F.A.** aut coresp, Apetrei A. (2018). Mitigating Financial Risk by Using Hedging Strategies *SEA- Practical Application of Science*, volVI, Issue 16, (IDEAS, EconPapers, DOAJ, ULRICH'S, CEEOL , INDEX COPERNICUS, EuroInternet.)
43. Nicuta A.M. **Luca F.A.** -autor coresp (2018) Apetrei A., Innovation and Trends in CRM – Customer Relationship Management, *Network Intelligence Studies*, vol.VI, Issue 11, (IDEAS, EconPapers, DOAJ, ULRICH'S, CEEOL, INDEX COPERNICUS, EuroInternet, NewJour – Electronic Journals & Newsletters, ScienceCentral.com.)
44. Bucur-Sabo M.L., **Luca F.A.** -aut coresp (2018). In Memoriam: Professor Petre Mâlcomete, Founder of Romanian Marketing, *Management Intercultural*, vol. XX, nr.40, 2018.
45. **Luca F.A.,** Ciobanu C.I., Danilet M.(2017). A Reliability Test Used For the Development of A Loyalty Scale, *Network Intelligence Studies*, vol.V, Issue 9, REPEC Ideas , EconPapers,DOAJ, EBSCO, ULRICH'S, CEEOL , EBSCO Publishing, INDEX COPERNICUS, EuroInternet.)
46. Stefan G., Filipeanu D, **Luca F.A.,** Agop, M., Topliceanu L., Oprea I, Grecea C., Ghizdovat V. (2017) An Extended von Mises Type Criterion for Complex Systems by Means of Lie Groups and its Implications, *Journal of Computational and Theoretical Nanoscience*, I SSN: 1546-1955 (Print): EISSN: 1546-1963 Vol. 14, 1–6, indexat SCOPUS
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J. Inovatii

1. Certificat de inovator nr 54 / 17.10.2017 – acordat de Academia de Studii Economice din Moldova si Centrul de Inovare si Transfer Tehnologic din Moldova
2. Certificat de inovator nr 56 / 19.10.2017 – acordat de Academia de Studii Economice din Moldova si Centrul de Inovare si Transfer Tehnologic din Moldova

K. Contracte de cercetare

1. Proiect AUF ECO 2024 DRECO 8602- ECONANODERE, Membru proiect 2024-2025. Director proiect: Ș.l.dr.ing. Daniel Lepadatu.
2. Proiect UEFISCDI Cod proiect:PN-III-P1-1.1-MCT-2019-0100, director proiect Florin Alexandru Luca
3. Proiect UEFISCDI Cod proiect: PN-III-P1-1.1-MCT-2017-0036, director proiect Florin Alexandru Luca
4. "Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities" - MyPeerMentor - 2017-1-TR01-KA205-039752, Director proiect: Prof.univ.dr. Gabriela Ciobanu, TUIasi, Membri proiect: 5 (inclusiv directorul de proiect) = Membru 2017-2018
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University, Belgia, Responsabil contract RO Prof.univ.dr.ing Antonela Curteza TUIasi, Valoare contract: 39.300 EUR / 4 membri pe proiect (inclusiv directorul de proiect) = Membru 2012-2015

7. EUREKA bilateral România –Turcia contract nr. E7218 /2012 *ProTexHeatINT, Program INOVARE,* Responsabil contract RO Prof.univ.dr.ing. Antonela Curteza TUIasi, Valoare contract: 300.000 RON / 8 membri pe contract (inclusiv directorul de proiect) = Membru 2012-2015
8. UK/08/LLP-LdV/TOI/163_154 - *Innovation Transfer in Textiles,* http://www.adam-europe.eu/adam/project/view.htm?prj=4579 Coord. proiect Prof.univ.dr.ing. Mirela Blaga, Valoare totala contract: 40.000 EUR = Membru 2008-2010
9. *Day Care Training*- LLP-LdV-TOI-07-F1-160815, Coord. Turku University, Finlanda, Valoare totala contract 211.447 EUR/ Valoare TUIasi 13125 EUR = Membru 2007-2009
10. *Creativity in Higher Education* , grant European University Association (EUA), Bruxelles, (Network 1: Prof Jesus Aguila) = Membru 2006
11. Grant *Banca Mondiala 39703,* Coord. grant Prof.univ.dr.ec. Dumitru Zaiț, UAIC, Valoare contract Florin Alexandru Luca: 3.600 USD, conform dispoziţiei 4994/3960 din 25.08.2000 – UAIC = Membru 2000-2001
12. *Grant cercetare-dezvoltare UEFISCDI* Cod proiect: PN-III-P1-1.1-MCT-2017-0036, 10 membri pe contract RO + 1 din Spania – suma contractului virată integral cercetatorului din Spania, Director contract 2017
13. *Contract 564P*/2012 Centrul de Cercetare şi Transfer Tehnologic Polytech, beneficiar SC Ceramica SA, Responsabil contract Dr. Cătălin Bălan TUIasi, Valoare contract: 6.200 RON / 2 membri pe contract (inclusiv responsabilul proiectului), Membru 2002
14. *Contract 3861P/04.07.2007* Centrul de Cercetare şi Transfer Tehnologic Polytech –Valoare contract: 1071 RON / membri contract: 1, Director contract 2007
15. *Grant CNCSIS, tip A, cod 1412,* http://www.afir.org.ro/ionsandu/cncsis_1412/index.html , Coord. proiect Prof.univ.dr.Ion Sandu UAIC, membri 25 (inclusiv directorul de proiect) = Membru 2005-2007
16. POSDRU 90/2.1/S/60423 – *De la teorie la practica,* http://www.textilepraxis.ro/ , Coord. proiect Prof.univ.dr. Maria-Carmen Loghin, TUIasi, Valoare contract 1.700.000 EUR, Responsabil promovare 2010-2013
17. POSDRU /19/1.3/G/33739 – *Edu Tehnic Forma Plus*, http://www12.tuiasi.ro/users/58/promovare33739%20nou.pdf , Coord.proiect Conf.univ.dr. Elena Tiron, TUIasi, Valoare contract: 1.800.570 RON / membri 24, =Membru 2010-2012
18. POSDRU/57/1.3/S/ 17884, http://www.posdru17884.tuiasi.ro/ , http://193.226.12.231:8080/dm/ , Coord. proiect Prof.univ.dr.ing. Mircea Dan Guşă, TUIasi, Valoare totala contract 1.615.000 RON / membri 22 =Membru 2010-2012

L. Premii şi distincţii

- 23 de medalii din care 6 de aur la saloane internaționale de creativitate și inventica (18 medalii în ultimii 10 ani)
- Proiect UEFISCDI - Dezvoltarea sistemului național de cercetare-dezvoltare-Resurse Umane- Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii -PN-III-P1-1.1-PRECISI-2019- 36172, Amfiteatru economic https://uefiscdi.gov.ro/index.php
- Proiect UEFISCDI - Dezvoltarea sistemului național de cercetare-dezvoltare-Resurse Umane- Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - PN-III-P1-1.1-PRECISI-2018-22977, 2018, beneficiar proiect Sustainability, https://uefiscdi.ro/index.php

01.10.2025 Prof.univ.dr.habil. Florin-Alexandru Luca

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele : Herghiligiu Ionuț Viorel

A. Teza de doctorat.

A1. Teza de doctorat

A1.1. Titlul tezei: “Cercetări privind Sistemul de management de mediu ca proces complex la nivelul organizaţiilor”

Domeniul de doctorat: Inginerie si management

Anul susținerii tezei: 2013 Anul confirmării titlului de Doctor: 2014

A1.2. Titlul tezei: : “Recherche sur le système de management environnemental comme un processus complexe au sein des organisations”

Domeniul de doctorat: Science de l'Ingénieur

Anul susținerii tezei: 2013 Anul confirmării titlului de Doctor: 2014

A2. Teza de potdoctorat

A2.1. Titlul tezei: “Evaluarea statistica a sustanabilitatii organizationale”

Domeniul: Cibernetica si statistica

Anul susținerii tezei: 2021 Anul eliberarii adestatului de studii postdoctorale: 2022

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

Nr.crt.	Titlul lucrării
	Cărţi/ manuale/ monografii/ capitole de specialitate ca autor in edituri internationale
1.	*Sustainability and Artificial Intelligence: Managerial Perspectives from the Automotive Sector in Industry 5.0 Context,* **Herghiligiu I.V.**, Robu I.B., Pislaru M., Vilcu A., capitol în "Sustainable artificial intelligence in Industry 5.0" - "From automation to collaboration: technologies, tools and strategies", Editori: Ivascu L., Pislaru M., Filip F.G., Springer (acceptat; în cursa de publicare)
2.	*Role of Digitalization in Organizational Sustainability*, **Herghiligiu I.V.**, Pislaru M., Pohontu-Dragomir S.C., Budeanu I.C., capitol 2 în Green Intelligence: Carbon Footprint Assessment in Digital Economy, Editori: Ivascu L., Pislaru M., Sarfraz M., CRC Press, Taylor & Francis Group, Boca Raton – London – New York, 2025, 17-30. DOI: 10.1201/9781003518990-2. ISBN: 978-1-032-84012-3.
3.	*Enhanced Model for Evaluating the Information Systems Success from the Sustainability Management Perspective,* Pohontu-Dragomir S.C., **Herghiligiu I.V.**, Pislaru M., Lazarescu R. P., Budeanu I.C., capitol 5 în Green Intelligence: Carbon Footprint Assessment in Digital Economy, Editori: Ivascu L., Pislaru M., Sarfraz M., CRC Press, Taylor & Francis Group, Boca Raton – London – New York, 2025, 57-73. DOI: 10.1201/9781003518990-2. ISBN: 978-1-032-84012-3.
4.	*The Implementation of a New Technology Based on the Monte Carlo Simulation in the Field of Sustainable Dependability in Operation,* **Herghiligiu I.**, Vilcu A., Pislaru M., capitol în Innovation in Sustainable Management and Entrepreneurship, Editori: Prostean G., Villahoz J.J.L., Brancu L., Bakacsi G., Springer Proceedings in Business and Economics. Springer, Cham., 333-344, 2020. ISBN: 978-3-030-44711-3.
5.	*EMS Implementation: A Theoretical Process Design Approach*, **Herghiligiu I.V.**, Robu I.B., capitol în Organizations and Performance in a Complex World, Editori: Orăștean R., Ogrean C., Mărginean S.C., Springer Proceedings in Business and Economics, Springer, Cham., 67-78, 2020.

	ISBN: 978-3-030-50676-6.
6.	*Environmental management: EMS as organizational complex process*, **Herghiligiu I.V.**, Ed. Tehnica-Info, Chisinau, Moldova, 2019, ISBN 978-9975-63-452-6. 504.06 H 51.
7.	*Corporate social responsibility practices*, **Herghiligiu I.V.**, Ed. Tehnica-Info, Chisinau, Moldova, 2016, ISBN 978-9975-63-397-0. 334:316.43 H 51.

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

Nr.crt.	Titlul lucrării
	Cărți /manuale /monografii/ capitole de specialitate ca autor in edituri nationale (edituri recunoscute)
1.	*Research and technological transfer in footwear manufacturing*, Bilalis N., Antoniadis A., Souto Bizarro R., **Herghiligiu I.V.**, Ed. Performantica, Iaşi, Romania, 2018, ISBN 978-606-685-593-8.
2.	*Management și ingineria sistemelor de producție – note de curs, Ediția a doua revizuită și actualizată*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iaşi, Romania, 2024. ISBN-978-630-328-121-6.
3.	*Management și ingineria sistemelor de producție – îndrumar de lucrări și proiect, Ediția a doua revizuită și completată*, **Herghiligiu I.V.**, Ed. Performantica, Iaşi, Romania, 2024. ISBN-978-630-328-122-3.
4.	*Management și ingineria sistemelor de producție – note de curs*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-675-1
5.	*Management și ingineria sistemelor de producție – îndrumar de lucrări și proiect,* **Herghiligiu I.V.**, Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-678-2
6.	*Managementul mediului – note de curs*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iaşi, Romania, 2024, ISBN 978-630-328-113-1

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

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

Nr.crt.	Titlul lucrării
	Cărți/manuale/monografii/ capitole de specialitate ca autor publicate pe web
1.	*Managementul mediului – elemente construcție sistem de management de mediu*, **Herghiligiu I.V.**, exemplificări elemente proiect (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2020. Managementul mediului – elemente construcție sistem de management de mediu_Herghiligiu_2020.pdf (tuiasi.ro)
2.	*Teoria probabilităților și statistică matematică,* curs (format electronic), Vilcu A., **Herghiligiu I.V.**, Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2020. https://edu.tuiasi.ro/pluginfile.php/86757/mod_resource/content/1/TPMS%2C%20note%20de%20curs%2C%20Iasi%2C%202020.pdf
3.	*Sisteme informaționale pentru management – note de curs*, **Herghiligiu I.V.,** Lupu L.M., curs (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2022. https://edu.tuiasi.ro/pluginfile.php/136053/mod_resource/content/1/Curs_disciplina%20SIM%20-%20note%20de%20curs_Herghiligiu%20I.V%20si%20Lupu%20M.L_2022-2023.pdf
4.	*Managementul instituțiilor publice – note de curs*, curs (format electronic), **Herghiligiu I.V.,** Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de master – Inginerie și management, 2023. https://classroom.google.com/c/NTk0MjA0ODg1MzA1/p/NjExMjQzNjk5NTEy/details
5.	*Management – note de curs*, **Herghiligiu I.V.**, Lupu L.M., curs (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2024.

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

Nr. crt.	Titlul articolului
F.1. Articole indexate în reviste WoS și în volumele unor manifestări științifice indexate WoS, vizibile în baza de date	
Articole publicate în reviste cotate WoS (ISI)	
1.	*Digital transformation of the supply chain in the raw materials area: a case study for FMS factory,* Vîlcu A., Palici A., Pîslaru M., Herghiligiu I.V., Lăzărescu R., Leontică L. (Căs. Aioanei) Grămăticu V. (Căs.Damaschin), Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 68(IV), 1035-1047, 2025. https://www.atna-mam.utcluj.ro/index.php/Acta/article/view/2981/2367
2.	*Sustainable innovation management model based on Value Engineering Method,* Vilcu A., Palici A., **Herghiligiu I.V.**, Pislaru M., Ionesi S-D., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67, 1337-1346, 2024. WOS:001469721900047 https://www.webofscience.com/wos/woscc/full-record/WOS:001469721900047
3.	*Information System Evaluation from a Green Production Management Perspective in an Automotive Sector Company,* Pohontu-Dragomir S.C., **Herghiligiu I.V.**, Vilcu A., Cojocaru M., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67(2), 841-848, 2024. WOS:001362561700042 https://www.webofscience.com/wos/woscc/full-record/WOS:001362561700042
4.	*Circular Causality Analysis of Corporate Performance and Accounting Quality in M&As,* **Herghiligiu I.V.**, Dicu R.M., Aevoae G.M., Sahlian D.N., Popa A.F., Robu I.B., PLOS ONE, 19(10), e0308608, 2024. https://doi.org/10.1371/journal.pone.0308608. Articol **publicat în revistă din quartila: Q1** https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308608
5.	*Digital security system with artificial intelligence module for data communications into manufacturing company,* Vilcu A., Todiric D., **Herghiligiu I.V.**, Verzea I., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 66(4), 529-538, 2023. WOS:001236162800001. https://www.webofscience.com/wos/woscc/full-record/WOS:001236162800001
6.	*Sustainable Corporate Performance Based on Audit Report Influence: An Empirical Approach through Financial Transparency and Gender Equality Dimensions*, **Herghiligiu I.V.**, Robu I.B., Istrate M., Grosu M., Mihalciuc C.C., Vilcu A., Sustainability, 15(18), 14033, 2023. WOS:001145327300001. https://doi.org/10.3390/su151814033. **Articol publicat în revistă din quartila: Q2** https://www.webofscience.com/wos/woscc/full-record/WOS:001145327300001
7.	*Mergers & Acquisition Decisions in the Energy Sector Based on Financial Transparency and Audit Opinions,* Robu I.B., Aevoae G.M., Mardiros D.N., **Herghiligiu I.V.**, Eastern European Economics, Routledge Journals, Taylor & Francis LTD, 1–37, 2023. WOS:001026472900001. https://doi.org/10.1080/00128775.2023.2225484. https://www.webofscience.com/wos/woscc/full-record/WOS:001026472900001
8.	*Can Teleworking Lead to Economic Growth during Pandemic Times? Empirical Evidence at the European Union Level,* Robu I.B., Dicu R.M., **Herghiligiu I.V.**, Sahlian D.N., Vuta M., 12(1), 154, 2023. WOS:000910266700001. https://doi.org/10.3390/electronics12010154. **Articol publicat în revistă din quartila: Q2** https://www.webofscience.com/wos/woscc/full-record/WOS:000910266700001
9.	*Manufacturing companies sustainability profile: identification based on Multiple Correspondence Analysis,* **Herghiligiu I.V.**, Vilcu A., Robu I.B., Pohonu-Dragomir S.C., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 65(4), 1177-1184, 2022. WOS:000969679100026. https://www.webofscience.com/wos/woscc/full-record/WOS:000969679100026
10.	*Circular Causality Analysis of Corporate Performance and Accounting Quality in M&As,* **Herghiligiu I.V.**, Dicu R.M., Aevoae G.M., Sahlian D.N., Popa A.F., Robu I.B., PLOS ONE, 19(10), e0308608, 2024. https://doi.org/10.1371/journal.pone.0308608. Articol **publicat în revistă din quartila: Q1** https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308608

11.	*Inventory mission at the half of the 17th century*, Istrate C., Robu I.B., **Herghiligiu I.V**., Balan C.B., European Journal of Science and Theology, 2020, 16(1), 11-21. WOS:000510144900002 https://www.webofscience.com/wos/woscc/full-record/WOS:000510144900002
12.	*Sustainable EMS integration and business performance: a balance assessment approach using fuzzy logic*, **Herghiligiu I.V**., Robu I.B., Pislaru M., Vilcu A., Asandului A.L., Avasilcai S., Balan C.B., Sustainability Journal, 11, 5311, 2019. WOS:000493525500170 https://doi.org/10.3390/su11195311. **Articol publicat în revistă din quartila: Q2** https://www.webofscience.com/wos/woscc/full-record/WOS:000493525500170
13.	*Corporate sustainable performance assessment based on fuzzy logic*, Pislaru M., **Herghiligiu I.V**., Robu I.B., **Journal of Cleaner Production**, 223, 998-1013, 2019. WOS:000466253100082. https://doi.org/10.1016/j.jclepro.2019.03.130. **Articol publicat în revistă din quartila: Q1** https://www.webofscience.com/wos/woscc/full-record/WOS:000466253100082
14.	*Indicators system for assessing the organizational knowledge acquisition process*, Cososchi D.G.L., Luca A., Lupu L.M., **Herghiligiu I.V.**, Environmental Engineering and Management Journal, 17 (4), 937-950, 2018. WOS:000431134900019. https://www.webofscience.com/wos/woscc/full-record/WOS:000431134900019
15.	*Analysis of companies sustainability under the influence of environmental information disclosure,* Istrate C., Robu I.B., Păvăloaia L., **Herghiligiu I.V.,** Environmental Engineering and Management Journal, 16 (4), 957-967, 2017. WOS:000405831300021. https://www.webofscience.com/wos/woscc/full-record/WOS:000405831300021
16.	*Research on factors that determines the quality of environmental management systems implementation in the case of Romanian organizations,* **Herghiligiu I.V.,** Lupu M.L., Robledo C., Kobi A. Environmental Engineering and Management Journal, 13 (8), 1893-1900, 2014. https://doi.org/10.30638/eemj.2014.209. WOS:000345902900007. https://www.webofscience.com/wos/woscc/full-record/WOS:000345902900007
17.	*A new conceptual framework for environmental decision at the organizational level based on fractal philosophy*, **Herghiligiu I.V.,** Lupu M.L., Robledo C., Kobi A., Environmental Engineering and Management Journal, 12 (5), pp. 1095-1102, ISSN: 1843-3707, 2013. https://doi.org/10.30638/eemj.2013.134. WOS:000325283100030. https://www.webofscience.com/wos/woscc/full-record/WOS:000325283100030

Nr. crt.	Titlul articolului
F.2. Articole în volumele unor manifestări științifice indexate WoS, vizibile în baza de date	
Articole publicate în volume indexate ISI Proceedings	
1.	*Artificial Intelligence and Organizational Sustainability: Neural Network Modeling for Probability-Based Scoring*, **Herghiligiu I.V.,** Loghin E.C., Pohontu-Dragomir S.C., Budeanu C.I., Proceedings of the International Conference on Business Excellence, 19(1), 3523-3537, 2025. WOS:001537765500043 https://doi.org/10.2478/picbe-2025-0269 https://www.webofscience.com/wos/woscc/full-record/WOS:001537765500043
2.	*Corporate Sustainability Assessment Models: A Theoretical Approach*, Mămăligă A., Pîslaru M., **Herghiligiu I.V.**, Mădălina-Maria B., Proceedings of the 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 847-850, 2025. IEEE. ISBN: 979-8-3315-8511-2. WOS:001669739200152 https://doi.org/10.1109/SIELMEN67352.2025.11260785 https://www.webofscience.com/wos/woscc/full-record/WOS:001669739200152
3.	*Theoretical Insights into Organizational Sustainability Management in the Context of Industry 5.0*, Vagiuc P.-D., Pîslaru M., **Herghiligiu I.V.**, Proceedings of the 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 348-353, 2025. IEEE. ISBN: 979-8-3315-8511-2. WOS:001669739200063 https://doi.org/10.1109/SIELMEN67352.2025.11260805 https://www.webofscience.com/wos/woscc/full-record/WOS:001669739200063
4.	*Management Decision-making Process: Research on the Associated Information Systems*, Pohonţu-Dragomir Ș.-C., Vîlcu A., **Herghiligiu I.-V.**, Pîslaru M., Proceedings of the 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iași, Romania,

	610-615, 2025. IEEE. ISBN: 979-8-3315-8511-2. WOS:001669739200109 https://doi.org/10.1109/SIELMEN67352.2025.11260684 https://www.webofscience.com/wos/woscc/full-record/WOS:001669739200109
5.	Pohontu-Dragomir S.C., Budeanu C.I., **Herghiligiu I.V.,** *Information Systems and Knowledge Management: Theoretical Perspective of Associated Interconnection,* Proceedings of the International Conference on Business Excellence, 2025. WOS:001606985500001 https://www.webofscience.com/wos/woscc/full-record/WOS:001606985500001
6.	*Statistical Model for Evaluating the Organizational Behaviour System in Online-Onsite Environments,* Vilcu A., Lazarescu R.P., **Herghiligiu I.V.**, Velescu M.L., Cojocaru M., Proceedings of the International Conference on Business Excellence, 18(1), 3309-3319, 2024. WOS:001262084900014. https://doi.org/10.2478/picbe-2024-0270 https://www.webofscience.com/wos/woscc/full-record/WOS:001262084900014
7.	*Corporate Information System and Environmental Sustainability Dimension - The Associated Link Evaluation,* Pohonu-Dragomir S.C., **Herghiligiu I.V.**, Vilcu A., Proceedings of the International Conference on Business Excellence, 18(1), 2654-2663, 2024. WOS:001262084800018. https://doi.org/10.2478/picbe-2024-0222 https://www.webofscience.com/wos/woscc/full-record/WOS:001262084800018
8.	*Communication Model Assessment Based on Organizational Emotional Intelligence,* Vilcu A., Lazarescu R.P., **Herghiligiu I.V.**, Proceedings of the International Conference on Business Excellence, 17(1), 475-487, 2023. WOS:001029771300012. https://doi.org/10.2478/picbe-2023-0046. https://www.webofscience.com/wos/woscc/full-record/WOS:001029771300012
9.	*Predictive analysis on the relationship corporate environmental orientation and EMS implementation quality,* **Herghiligiu I.V.**, Robu I.B., Proceeding of International Conference on European Financial Regulation – EUFIRE 2019, Iasi, Romania, 17-18 May 2019, Mihaela Tofan, Irina Bilan, Elena Cigu (editors), Editura Universităţii "Alexandru Ioan Cuza" din Iasi, 131-147, 2019. WOS:000506389400008. https://www.webofscience.com/wos/woscc/full-record/WOS:000506389400008
10.	*Fuzzy modeling of dependability optimization for supporting the production-quality strategies - case study in technical field,* Vilcu A., Verzea I., Pislaru M., **Herghiligiu I.V.**, IOP Conference Series: Materials Science and Engineering, 591 (1), 2019, Article number 012072; 7th International Conference on Modern Technologies in Industrial Engineering, ModTech 2019; Romania; 19 - 22 June 2019; Code 151214. WOS:000562929900072. https://doi.org/10.1088/1757-899X/591/1/012072 https://www.webofscience.com/wos/woscc/full-record/WOS:000562929900072
11.	*Sustainable development of the Romanian listed companies through the assurance of transparency in financial reporting,* Robu I.B., Istrate C., **Herghiligiu I.V.**, Proceedings of The 13th International Conference Accounting and Management Information Systems (AMIS 2018), 184-200, 2018. WOS:000677821500015. https://www.webofscience.com/wos/woscc/full-record/WOS:000677821500015
12.	*E-Learning Training Program Framework on Fractal Design – The Ultimate State to Improve EMS Integration*, **I.V. Herghiligiu**, M Pislaru, Proceedings of the 14th International Scientific Conference Elearning and Software for Education: Elearning Challenges and New Horizons, 3, 168-171. 2018. WOS:000467471000024. https://doi.org/10.12753/2066-026X-18-166 https://www.webofscience.com/wos/woscc/full-record/WOS:000467471000024
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32.	*Neuro-fuzzy support tool for ecosystems monitoring,* Pislaru M., **Herghiligiu I.V.,** Lazarescu R.P., Alexa L.E., 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Vienna GREEN Conference Proceedings, 17, 43, 445-452 https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=3833 https://scholar.google.com/citations?view_op=view_citation&hl=en&user=a5fxN-oAAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=a5fxN-oAAAAJ:l7t_Zn2s7bgC
33.	*Fuzzy logic - a practical tool for monitoring urban areas environmental performance*, Pislaru M., Alexa E.L., **Herghiligiu I.V.**, Lazarescu R.P., 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Conference Proceedings, Ecology, Economics, Education and Legislation, 29 June – 5 July, Albena, Bulgaria, 17, 52, 387-394. https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=4076 https://search.proquest.com/openview/bf90ac3233e145b605009e1a1854328a/1?pq-origsite=gscholar&cbl=1536338
34.	*E-learning training program framework on environmental management system in order to improve business performance*, **Herghiligiu I.V.,** Sarghie B., Robu I.B., The 13th International Scientific Conference eLearning and Software for Education: Could technology support efficiency?, Bucharest, April 27-28, Eds. Ion ROCEANU, vol. III, 439-444, "CAROL I" National Defence University Publishing House, ISSN 2066-026X, 2017. http://eds.b.ebscohost.com/abstract?site=eds&scope=site&jrnl=2066026X&AN=123031357&h=uDNiR1NthwIh855bYL%2btENqavdS%2bnzO4enV5lX4ADVIIRHxJfoRe%2fXJlHU6J0ITbmp%2fQbxAcYXEX6oSq0kHsQg%3d%3d&crl=c&resultLocal=ErrCrlNoResults&resultNs=Ehost&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d2066026X%26AN%3d123031357
35.	*Stakeholder role in environmental decision,* Conferinţă internaţională: "2nd International Conference on *Quality and Innovation in Engineering and Management*", **Herghiligiu I.V.,** Lupu M.L., 22th – 24th of November, Cluj-Napoca, Romania; articol publicat în „Quality-Access to Success", Vol. 13, S5, CD version ISSN 1582 – 2559, pp. 179 – 182, 2012. https://www.scopus.com/record/display.uri?eid=2-s2.0-84870693111&origin=resultslist&sort=plf-f&src=s&st1=herghiligiu+i.&st2=&sid=EBA5D5CD9799446DAB0721E69D79829B.wsnAw8kcdt7IPYLO0V48gA%3a10&sot

	=b&sdt=b&sl=27&s=AUTHOR-NAME%28herghiligiu+i.%29&relpos=9&citeCnt=3&searchTerm= http://search.proquest.com/docview/1261378191/1D8AC693E41944BAPQ/9?accountid=87658
36.	*Necessity of change environmental management system architecture – introduction,* **Herghiligiu I.V.,** Lupu M.L., Robledo C., Conferinţă internaţională: "2nd International Conference on *Quality and Innovation in Engineering and Management*", 22th – 24th of November, Cluj-Napoca, Romania; articol publicat în „Quality-Access to Success", Vol. 13, S5, CD version ISSN 1582 – 2559, pp. 175 – 178, 2012. https://www.scopus.com/record/display.uri?eid=2-s2.0-84870709576&origin=resultslist&sort=plf-f&src=s&st1=herghiligiu+i.&st2=&sid=EBA5D5CD9799446DAB0721E69D79829B.wsnAw8kcdt7IPYLO0V48gA%3a10&sot=b&sdt=b&sl=27&s=AUTHOR-NAME%28herghiligiu+i.%29&relpos=10&citeCnt=3&searchTerm= http://search.proquest.com/docview/1261380764/1D8AC693E41944BAPQ/4?accountid=87658
37.	*Contributions to the organizational structure analysis methodology*, Epure S.P., Lupu M.L., **Herghiligiu I.V.,** International conference: „*Managerial Challenges of the Contemporary Society*, 8-9 June, 2012", Cluj-Napoca, România, Book 3, ISSN 2069-4229, pp. 143 – 147, 2012. (CEEOL International Database, Proquest Central); http://search.proquest.com/docview/1287028846/1D8AC693E41944BAPQ/12?accountid=87658
38.	*Development of a methodology for investigation of the degree of academical informational satisfaction*, Budeanu B., Lupu M.L., **Herghiligiu I.V.**, International conference: „*Managerial Challenges of the Contemporary Society*, 8-9 June, 2012", Cluj-Napoca, Romania, Book 3, ISSN 2069-4229, pp. 68 – 72, 2012. (CEEOL International Database, Proquest Central); http://search.proquest.com/docview/1287028537/1D8AC693E41944BAPQ/8?accountid=87658

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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J. Invenţii.

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K. Contracte de cercetare.

Nr.crt.	Titlul grantului/ proiectului
K.1. Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic	
K.1.1. Director/ Responsabil:	
K.1.1.1. Nationale	
1.	Titlul proiectului: *Evaluarea rolului digitalizării în contextul sustenabilității organizaționale pe baza unui cadru inovativ de metode statistice și tehnici soft-computing* – acronim: DIGIT-SUS-EV; Proiect de cercetare a Academiei Oamenilor de Știință Din România, AOSR-TEAMS II EDIȚIA 2023-2024, Transformarea Digitală în Științe; Numar contract/ tip: 11/ 11.04.2023; Valoare proiect: 45000 lei; Perioada/ anul: 2023-2024; Director/ responsabil proiect: Conf.univ.dr.habil. Ionuț Viorel Herghiligiu. https://www.aosr.ro/wp-content/uploads/2023/03/REZULTATE-FINALE-SITE-Comp-proiecte-2023-2024.pdf
2.	Titlul proiectului: *Solutii fractale dedicate integrarii SMM in vederea imbunatatirii performantei afacerilor*; Grant National de Cercetare; Numar contract/ tip: Grant ARUT GnaC2018_119/ 2019; Valoare proiect: 47440 (exclusiv TVA); Perioada/ anul: 2019-2020; Director/ responsabil proiect: S.l..univ.dr.habil. Ionuț Viorel Herghiligiu.
3.	Titlul proiectului: *Cercetări privind impactul indus mediului de activitățile desfășurate de SC KNUTH-ALLMETECH SRL în punctul de lucru din localitatea Tomești, jud. Iași, platforma industriala Comtom, Hala G4I*; Numar contract/ tip: Agent economic nr. 7798/ 2021; Valoare proiect: 29869 lei (inclusiv TVA)/ 25100 lei (exclusiv TVA); Perioada/ anul: 2021; Director/ responsabil proiect: Conf.univ.dr.habil. Ionuț Viorel Herghiligiu.

K.1.1.2. Membru în echipă	
K.1.1.2.1 Internationale	
1.	Titlul proiectului: *Knowledge Platform for Transferring Research and Innovation in Footwear Manufacturing* – K4F; Numar contract/ tip: 2015-1-RO01-KA203-015198; Valoare proiect: 167440 lei (exclusiv TVA); Perioada/ anul: 2015 – 2018; Director/ responsabil proiect: Prof.univ.dr.ing. Aura Mihai http://www.knowledge4foot.eu/
2.	Titlul proiectului: *Matrix of knowledge for innovation and competitiveness in textile enterprises* – TEXMATRIX; Numar contract/ tip: 2016-1-RO01-KA202-024498; Valoare proiect: 95625 lei (exclusiv TVA); Perioada/ anul: 2016 – 2018; Director/ responsabil proiect: Prof.univ.dr.habil.ing. Mirela Blaga http://www.texmatrix.eu/
3.	Titlul proiectului: *Manager for an Efficient and Innovative Footwear Industry* – SHOEMAN; Numar contract/ tip: 2017-1-TR01-KA202-046427; Valoare proiect: 179454 lei (exclusiv TVA); Perioada/ anul: 01.12.2017 – 30.11.2020; Director/ responsabil proiect: Prof.univ.dr.ing. Aura Mihai https://shoemanproject.org/
4.	Titlul proiectului: *Haw to Implement Sustainable Manufacturing in Footwear – new occupational profile and training opportunities* – STEP TO SUSTENABILITY; Numar contract/ tip: 539823-LLP-1-2013-1-PT-LEONARDO-LMP; Valoare proiect: 179550 lei (exclusiv TVA); Perioada/ anul: 01.11.2013 – 31.03.2016; Director/ responsabil proiect: Prof.univ.dr.ing. Aura Mihai http://www.step2sustainability.eu/
5.	Titlul proiectului: *Developing Innovative and Attractive CVET programmes in industrial shoe production* – DIA-CVET; Numar contract/ tip: 2020-1-DE02-KA202-007600; Valoare proiect: 256760 lei (exclusiv TVA); Perioada/ anul: 2020 – 2022; Director/ responsabil proiect: Prof.univ.dr.ing. Aura Mihai https://dia-cvet.eu/
K.1.1.2.2 Nationale	
6.	Titlul proiectului: *Croieste-ti viitorul cu incredere la Facultatea de Textile-Pielarie si Management Industrial* din Universitatea Tehnica Gheorghe Asachi din Iasi; Numar contract/ tip: 89/SGU/NC/1; Valoare proiect: 679996 lei (exclusiv TVA); Perioada/ anul: 01.01.2018 – 01.02.2020; Director/ responsabil proiect: Prof.univ.dr.habil.ing. Ionut Dulgheriu
7.	Titlul proiectului: *Internationalizarea educatiei pentru student la TUIASI* – INTERES TUIASI; Numar contract/ tip: CNFIS-FDI-2019-0021; Valoare proiect: 497000 lei (exclusiv TVA); Perioada/ anul: 2019; Director/ responsabil proiect: Prof.univ.dr. Irina Lungu
8.	Titlul proiectului: *Dezvoltare instituţională pentru competenţe transversale în TUIASI* – TechGO2; Numar contract/ tip: CNFIS-FDI-2023-F-0016; Valoare proiect: 215000 lei (exclusiv TVA); Perioada/ anul: 27.03.2023 – 15.12.2023; Director/ responsabil proiect: Prof.univ.dr. Alina Minea
9.	Titlul proiectului: *Improving the audit quality in Romania based on fuzzy logic*; Numar contract/ tip: PN-III-P1-1.1-TE-2019-1642; Valoare proiect: 428150 lei; Perioada/ anul: 01.11.2020 – 31.10.2022.

L. Premii, distincţii

Nr. crt	Denumire premiu
L.1 Premii	
L.1.1 premii internaționale	
1.	**Medalie de argint:** *Organizational Sustainability: Neural Network Modeling for Probability-Based Scoring,* Herghiligiu I.V., Robu I.B., Vilcu A., Pislaru M., Ivascu L., Pohontu-Dragomir C.S., Budeanu C.I., 17th European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025
2.	**Medalie de bronz:** *Financial statement fraud detection with support vector machine,* Burlacu G., Robu I.B.,, Herghiligiu I.V., 17th European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025.
3.	**Medalie de excelenta:** *Sustainable or just greenwashing experts? An analysis of companies listed on the Bucharest Stock Exchange,* Rosca I.D., Robu I.B.,, Herghiligiu I.V., Chiru C.S., 17th

	European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025
4.	**Medalie de argint:** *Fraud Risk Assessment Using Artificial Neural Network***,** Burlacu G., Robu I.B.,, Herghiligiu I.V., 16th European Exhibition of Creativity and Innovation, Iasi, Romania, 6-8 June 2024
5.	**Medalie de argint:** *Exploratory Study on the Influence of Audit Opinion on the Share Prices of Companies Listed on the Bucharest Stock Exchange,* Mocanu A., Robu I.B.,, Herghiligiu I.V., 16th European Exhibition of Creativity and Innovation, Iasi, Romania, 6-8 June 2024
6.	**Medalie de argint:** *Technical resilience - models, metrics, methods and algorithms*, Vilcu A., Herghiligiu I.V., Robu I.B., Pislaru M., Verzea I., Ivascu L., Herghiligiu C.M., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
7.	**Medalie de bronz:** *Organizational sustainability score – probability approach using fuzzy logic*, Herghiligiu I.V., Robu I.B., Pislaru M., Ivascu L., Herghiligiu C.M., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
8.	**Medalie de excelenta in inovare:** *Fraud Risk Analysis and Assessment in Financial Auditing under the Covid-19 Influenc*e, Burlacu G., Robu I.B., Herghiligiu I.V., Vilcu A., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
9.	**Diploma de excelenta:** *Development Of Organizational Innovation Capability By Delone And Mclean Model*, Pohonțu-Dragomir S.C., Herghiligiu, I.V., Vilcu A., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
10.	**Diploma de excelenta:** *Management si ingineria sistemelor de productie – indrumar de lucrari si proiect*, Herghiligiu I.V., Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-678-2, EUROIENVENT 2023 Book Salon, 11-13 mai, Iasi, Romania.
11.	**Medalie de argint:** *Management si ingineria sistemelor de productie – note de curs*, Herghiligiu I.V., Lupu L.M.,, Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-675-1. EUROIENVENT 2023 Book Salon, 11-13 mai, Iasi, Romania.
12.	**Medalie de bronz:** *Using fuzzy logic in energy sector M&AS, based on sustainability dimensions and audit opinion*, Robu I.B., Herghiligiu I.V., Dicu R., Aevoae G.M., Vîlcu A., Balan C.. EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
13.	**Medalie de argint:** *The evolution of teleworking in the European Union based on fuzzy logic. Empirical evidence during the COVID 19 pandemic*, Dicu R., Aevoae G.M., Robu I.B., Herghiligiu I.V., Vîlcu A., Sandu C.B., EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
14.	**Medalie de argint:** *The importance of Monte Carlo - based technologies in operational management*, Vîlcu A., Herghiligiu I.V., Robu I.B.., EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
15.	**Diploma de excelenta:** *Business sustainability assessment operated to identify an associated profile*, **Ionut Viorel Herghiligiu**, Ioan-Bogdan Robu, Adrian Vilcu, Marius Pislaru, EUROIENVENT 2021 - 13th European Exhibition of Creativity and Innovation, Iasi, Romania, 20-21 May 2021
16.	**Medalie de aur:** *Statistical model on technical system powered by artificial intelligence*, Adrian Vîlcu, **Ionuț Herghiligiu**, Bodan Robu. EUROIENVENT 2021 - 13th European Exhibition of Creativity and Innovation, Iasi, Romania, 20-21 May 2021
17.	**Medalie de aur:** Fractal solutions to EMS integration in order to improve business performance, The 23rd International Exhibition of Inventics - "INVENTICA 2019*"* Iași, România [ARUT grant/ **Ionut Viorel HERGHILIGIU**,]
18.	**Outstanding contribution in reviewing:** JOURNAL OF CLEANER PRODUCTION, Elsevier, Amsterdam, The Netherlands
19.	**Premiul Special –** acordat de Lodz University of Technology, Institute of Applied Computer Science: *Benchmarking stdy of the innovation in textile enterprise at European level*, PROINVENT, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, Editia XVI, 21-23 martie 2018, Cluj Napoca, RO.
20.	**Medalie de aur** si diploma de excelenta: *Benchmarking stdy of the innovation in textile enterprise at European level*, PROINVENT, Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii, Editia XVI, 21-23 martie 2018, Cluj Napoca, RO.
21.	**Medalie de bronz :** *Eco-intelligent system for environmental sustainability assessment based on soft-computing techniques integrated framework. INTEL-ECO,* EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018
22.	**Diploma de excelenta:** *Assessing sustainable development of the Romanian listed companies based on hierarchical fuzzy logic,* EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018
23.	**Diploma de excelenta:** *Fractal design solutions for EMS integration in order to improve business performance*, EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018]
24.	**Medalie de argint**: *Fractal design: the ultimate state to improve EMS integration*, EUROINVENT, 9th European Exhibition of Creativity and Innovation, Iasi, Romania, 25-27 May 2017

25.	**Medalie de argint**: *Environmental Fraud Risk assessment based on Fuzzy approach*, EUROINVENT, 9th European Exhibition of Creativity and Innovation, Iasi, Romania, 25-27 May 2017
26.	**Medalie de aur**: *Theoretical framework regarding the organizational factors which determines the EMS implementation,* THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
27.	**Medalie de aur**: *Evaluation framework of the organizational corporate social responsibility (CSR) practices,* THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
28.	**Medalie de aur**: *Analytical procedures used in environmental fraud auditing,*THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
29.	**Medalie de argint**: *Environmental fraud risk assessment matrix,* EUROINVENT, 8th European Exhibition of Creativity and Innovation, 19-21 May 2016, Iaşi Romania, ISBN: 987-606-775-212-0
30.	**Medalie de argint**: *A theoretical framework regarding the Environmental management system as organizational complex process,* EUROINVENT,7th European Exhibition of Creativity and Innovation, 14-16 May 2015, Iaşi Romania, ISBN: 978-606-13-2474-3
31.	**Medalie de argint**: *A theoretical framework regarding the assessment of the Environmental Fraud Risk,* EUROINVENT, 7th European Exhibition of Creativity and Innovation, 14-16 May 2015, Iaşi Romania, ISBN: 978-606-13-2474-3
32.	**Medalie de aur**: *Environmental decision seen as a fractal process*, EUROINVENT, 5th European Exhibition of Creativity and Innovation, 9-11 May 2013, Iaşi, România, ISBN: 978-973-703-891-3
33.	**Medalie de argint**: *Fractal design: A new path to improve the dynamic of organizational competitiveness*, EUROINVENT, 6th European Exhibition of Creativity and Innovation, 22-24 May 2014, Iaşi Romania
L.1.2 premii naționale în domeniu	
34.	**Premiul de excelenta stiintifica al revistei Audit Financiar** [Camera Auditorilor Financiari din Romania] – pentru articolul „Fundamentarea deciziilor privind investițiile de portofoliu pe baza opiniei de audit în cazul firmelor cotate la Bursa de Valori București", Congresul al VII-lea al profesiei de auditor financiar – CAFR 2021; autori: Aevoae G., Robu I.B., Dicu R., **Herghiligiu I.V.**
35.	**Diploma de excelenta:** *Process design: a theoretical approach to organizational EMS implementation,* Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Iasi, Romania
36.	**Diploma de excelenta:** *Organizational barriers associated to environmental management system integration,* Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Iasi, Romania

M. Alte realizări semnificative.

-

Data,
13.02.2026

Semnătură,
Prof.dr.habil. Ionut Viorel HERGHILIGIU

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Asandului Gabriel**

A. Teza de doctorat.

Institutie: Universitatea „Alexandru Ioan Cuza din Iași"
Perioada: 1998-2004
Indrumator: Prof. Univ.dr. Dumitru Șandru
Titlul tezei: A.C.Cuza-omul politic
Titlul: Doctor în Istorie

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

Gabriel Asandului, Teodora Ghivirigă, *The condition of the intellectuals elite in Communist Romania. A historical perspective*, în Stephen Palmer (ed.), *The intellectual. A Phenomenom in Multidimensional Perspectives*, Inter-disciplinary Press, Oxford, 2011, ISBN 978-1-84888-003-0, pp. 33-42;

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

1. Gabriel Asandului, *Gheorghe Asachi-scurtă schiță biografică*, în Neculai Eugen Seghedin (editor), *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023, pp. 15-50 ;
2. Gabriel Asandului*, Şcolile de cadre ale ale PCR din teritoriu în primii ani postbelici (1945-1948)*, pp. 47-72, în Sorin Radu (coordonator), *Învăţământul de partid şi şcolile de cadre în România comunistă. Cadru naţional şi regional*, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2014;
3. Mihai Dorin**, Gabriel Asandului,** *Universitatea Tehnică „Gheorghe Asachi" din Iaşi (1813-2013). 200 de ani de la înfiinţarea Şcolii de Inginerie*, ediţie îngrijită de Daniel Condurache, Neculai Eugen Seghedin, Irina Lungu, Cuvânt-înainte de Ion Giurmă, Editura Politehnium, Iaşi, 2013, pp.95-150, ISBN: 978-973-621-420-2.
4. **Gabriel Asandului**, *Istoria construcţiei europene*, Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-424-0.
5. Mihai Dorin, Gabriel Asandului, Horia Chiriac, *Europa în trei timpi,* Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-421-9, pp. 84-181.
6. Gabriel Asandului, *Studiu introductiv*, în A.C.Cuza- *Alte scrieri*, Editura Tipo Moldova, Iaşi, 2012, pp. I-XXXV (Colecţia Opera Omnia).
7. **Gabriel Asandului,** *Ştiinţele aplicate*, în *Universitatea din Iaşi (1860-2010). Facultăţi. Profesori. Şcoli ştiinţifice*, coordonator Gheorghe Iacob, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2011, pp. 554-568, ISBN 978-973-703-589-9 ;
8. Dorin Mihai, Neagu Cornelia**, Gabriel Asandului,** Elena Hodorogea**,** *Politehnica ieşeană in dinamica modernizarii României*, Editura Stef, Iaşi, 2006, pp. 109-174, ISBN 978-973-8961-67-8 (finanţată prin contract CNCSIS), 316p.
9. **Gabriel Asandului**, *Istoria evreilor din România (1866-1938)***,** Editura Institutului European, Iaşi, 2003, ISBN 973-611-128-8, 91p.

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

1. Cloşcă Constantin**, Gabriel Asandului,** *Istoria Dreptului românesc*, Editura Fundaţiei Academice „Danubius", Galaţi, 2002, **ISBN 973-8409-12-8**, 288 p.
2. Cloşcă Constantin, **Gabriel Asandului,** *Administraţia publică în istoria românilor,* Editura Universitatea Ecologică " D.Cantemir", Iaşi, 2000, ISBN 973-9038-07-7**, 230 p.**

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.Gabriel Asandului, *Party education in communist Romania in the first two post-war decades (1945-1965),* in „Bulgarian Historical Review ", nr. 3/4/2021, pp.196-226, ISSN 2815-2905 (online), 0204-8906 (print), WOS: 000743379800007, Scopus, EBSCOHost, CEEOL

- Articole publicate în volume indexate ISI Proceedings

- Articole indexate în baze de date internaţionale

1.Gabriel Asandului, *Unificarea cadministrativă a României interbelice (1918-1925)* , „Carpica", LI/2022, CEEOL, pp. 364-386.

2. Gabriel Asandului, *The romanian local administration from the little union to the first world war (1859-1918)*, Buletinul Institutului Politehnic din Iași, vol. 68(72), nr.1-4/2022, pp. 9-22, Secția Socio-umane.

3. **Gabriel Asandului**, *Administraţia românească în timpul celui de-al doilea război mondial*, „Carpica", nr. XLVIII/2019, pp. 246-271;

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2. **Gabriel Asandului,** *From School of Electricity to Electrical Engineering (1910-1937),* Proceedings of the 3-RD Symposium on the History of Electrical Engineering and of tertiary-level Engineering Education, Iaşi, România, 2010, pp. 33-37;
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J. Invenţii.

K. Contracte de cercetare.

Director de grant/contract

Membru în colectiv

1.Proiect ROSE nr. 83/SGU/CI/I – Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TUIASI (REMEDIUM), 2018-2021; Expert-formator; director- prof.univ.dr. ing. Neculai Eugen Seghedin ;

2. Project Title: Les fondements historiques et l' actualité du project Européen", 2012-2015

Reference: 529538-LLP-2012-RO-AJM-MO

Lifelong Learning Programme-Call for Proposals (EAC/27/11) Jean Monnet Programme: Key Activity 1 (Director- Conf. dr. Mihai Dorin) ;

*3. . Proiectul de cercetare educaţională Red Aris Investigadora, nr. 2005-1472/001-001, Abandonul şcolar şi dificultăţi de învăţare în învăţământul vocaţional", **programul Socrates**, acţiunea 6.1.2. şi 6.2., octombrie 2005-octombrie 2007, (Director – Lect. univ. dr. Tudor Stanciu) ;*

*4. Un proiect european în dinamica modernizării României: evoluţia învăţământului tehnic superior ieşean, Tema 20/anexa I-a, cod **CNCSIS 591**, nr.contract 27637/14.03.2005, aprilie 2005-aprilie 2007, (Director-Conf. univ.dr. Mihai Dorin).*

L. Premii, distincţii.

1.Premiul AGIR 2023, pentru lucrarea *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023.

2. Premiul Academiei Române, 2025, Secțiunea Istoria Științei și tehnicii, pentru lucrarea *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023

M. Alte realizări semnificative.

Data, 14.09.2025

Semnătură,

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

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

A. Teza de doctorat.

Instituţie: Universitatea Tehnică ”Gheorghe Asachi” din Iaşi
Perioada: 1996 – 2000
Conducător ştiinţific: Prof. univ. dr. ing. Matei Macoveanu
Titlul tezei: Contribuţii la studiul şi optimizarea proceselor de schimb ionic aplicate în epurarea recuperativă a apelor de spălare din galvanotehnică.
Titlul: doctor în Inginerie Chimică, Diploma seria B nr. 0004230, Ordin MEN 3467/16.03.2001

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

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

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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.

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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
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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. 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.

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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
(ISI Conference)

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
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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
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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
5. Cretescu I., **Soreanu G.**, Petruc M., Macoveanu (2008). Instalatie si procedeu de schimb ionic in camp magnetic. Brevet RO, nr. 121985/2008
6. 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.

Director de grant/contract
1. 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*)**
2. 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*)**
3. 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)***
4. 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)***

5. 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***)
6. 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***)
Membru in colectiv
7. 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***)
8. 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*)**
9. 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*)**
10.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*)**
11.Contract de cercetare 8230/2018, Dezvoltarea unui sistem pentru controlul compozitiei specifice fluidelor de spalare din industria auto, 2019-2020 **(*membru*)**
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***)

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 editorial, jurnale de specialitate:
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

Semnătură,



Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **LISA CĂTĂLIN**
Conferențiar

A. Teza de doctorat.

Institutie: Universitatea Tehnică „Gheorghe Asachi" Iaşi, Facultatea de Inginerie Chimică şi Protecţia mediului
Perioada: 2004-2009
Coordonator: prof.dr.ing. Victor Bulacovschi
Titlul tezei: Cătălin Lisa, *„Aplicaţii ale inteligenţei artificiale în ingineria reacţiilor de polimerizare*", 236 pg.+134 pg. anexe, anul 2009.
Titlul: DOCTOR in domeniul Inginerie Chimică, diploma seria G nr. 0004656, Ordin MEC 3492/23.03.2010

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. Catalin Lisa, Fenomene de transfer, operații unitare și echipamente. Transfer de impuls, 2024, Editura Performantica, 122 pag., ISBN-978-630-328-112-4
2. Silvia Curtenu, Catalin Lisa, editura CERMI, Iasi, "Mathcad sub Windows", 1998, ISBN: 973-9378-38-2, 185 pag.

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

1. R.Z. Tudose, S. Petrescu, I. Ibănescu, A. Stancu, A. Băcăoanu, A. Moise, L.D. Horoba, I. Mămăligă, Cătălin Lisa „Fenomene de transfer şi operaţii unitare. Îndrumar pentru lucrări de laborator", 2001, Editura Universităţii Tehnice Gh.Asachi Iaşi, 306 pag.
2. Horoba DL, Mamaliga I, Iacob-Tudose ET, Moise AI, Cătălin Lisa, Nechita MT, Fenomene de transfer si operatii unitare, Indrumar de proiectare, Editura Universitatii Tehnice Gheorghe Asachi din Iasi, 2023, ISBN 978-973-621-532-2, 300 pag.

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

1. Catalin Lisa, Fenomene de transfer operații unitare și echipamente, 2, 2019/ suport de prezentare ppt, 129 pag.
2. Catalin Lisa, Suport electronic a disciplinei Operatii hidrodinamice, 100 pagini, 2024
3. Catalin Lisa Suport electronic pentru cursul de Transpunerea la scară a proceselor din industria chimică 28 pagini, 2020.
4. Catalin Lisa, Suport electronic pentru proiectul Modelarea si proiectarea reactoarelor chimice, 38 pagini, 2020
5. Catalin Lisa, Suport electronic pentru proiectul Fenomene de transfer, operații unitare și echipamente - proiect, 162 pagini, 2020
6. Catalin Lisa, Suport electronic pentru aplicatiile la disciplina transpunere la scara 32 pagini
7. Catalin Lisa, Suport electronic pentru cursul de Reologie, 104 pagini 2021

8. Catalin Lisa, Prezentare Power Point pentru cursul de Reologie, 171 pagini 2021

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

- Articole publicate în reviste cotate ISI

1. Nistor, L; **Lisa, C**; Michinobu, T; Lisa, G, Thermal degradation mechanism and isothermal sublimation kinetics of DDMEBT: Structure-property correlations for process optimization, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2025, 39, 7261-7276, http://doi.org/10.1016/j.jmrt.2025.11.046, Q1

2. Anton, N; **Lisa, C**; Doroftei, B; Pîrvulescu, RA; Barac, RI; Lungu, II; Bogdanici, CM, The Role of Artificial Intelligence in Predicting the Progression of Intraocular Hypertension to Glaucoma, LIFE-BASEL, 2026, 6,5, 865, https://doi.org/10.3390/life15060865, Q1

3.Târcoveanu F., Leon Florin, **Lisa C.,** Curteanu S., Feraru A., Ali K., Anton N., The use of artificial neural networks in studying the progression of glaucoma, Scientific Reports (2024) 14:19597, https://doi.org/10.1038/s41598-024-70748-1, **Q1**.

4.Anghel, I; **Lisa, C.**; Curteanu, S.; Preda, DM; Sofran, IE; Baia, M; Stroe, M; Paraschiv, M; Baibarac, M; Danciu, V; Cotet, LC; Baia, L, The influence of the functionalization of polystyrene and graphene oxide composites on the flammability characteristics: modeling with artificial intelligence tools, Journal of Thermal analysis and calorimetry, 2024, 149(7), 2805-2824. https://doi.org/ 10.1007/s10973-023-12869-9 (**autor principal – autor corespondent**) **Q1**(la momentul publicarii)

5.Bîrgauanu, I, **Lisa, C**; Leon, F; Curteanu, S; Lisa, G, Modeling of excess molar volume for binary and ternary mixtures of benzyl alcohol, n-hexanol and water, Environmental Engineering and Management Journal, (12), 22, 2023, 2157-2164. **Q4**

6.Anton, N.; Doroftei, B.; Curteanu, S.; **Lisa C.**; Ilie, O.-D.; Târcoveanu, F.; Bogdanici, C.M. Comprehensive Review on the Use of Artificial Intelligence in Ophthalmology and Future Research Directions. Diagnostics 2023, 13, 100. https://doi.org/10.3390/ diagnostics13010100. **Q1**

7.Cleminte, C.-I.; Ionita, D.; **Lisa, C.;** Cristea, M.; Mamaliga, I.; Lisa, G. Evaluation of the Sublimation Process of Some Purine Derivatives: Sublimation Rate, Activation Energy, Mass Transfer Coefficients and Phenomenological Models. Materials 2022, 15, 7376. https://doi.org/10.3390/ ma1520737. **Q1**

8.Lisa, G.; Anghel, I.; Preda, D.-M.; **Lisa, C.**; Cretescu, I.; Buciscanu, I.I.; Diaconu, M.; Soreanu, G. Moving towards Valorization of Biowastes Issued from Biotrickling Filtration of Contaminated Gaseous Streams: A Thermochemical Analysis-Based Perspective. Sustainability 2022, 14, 10737. https://doi.org/10.3390/ su141710737 **Q2**

9.Bîrgauanu, I.; Danu, M.; **Lisa, C.**; Leon, F.; Curteanu, S.; Ibanescu, C.; Lisa, G. Viscosity Deviation Modeling for Binary and Ternary Mixtures of Benzyl Alcohol-N-Hexanol-Water. Materials 2022, 15, 5699. https://doi.org/10.3390/ma15165699 (**autor principal – contributie egala cu primul autor**). **Q1**

10.Anton, N.; **Lisa, C.**; Doroftei, B.; Curteanu, S.; Bogdanici, C.M.; Chiselita, D.; Branisteanu, D.C.; Nechita-Dumitriu, I.; Ilie, O.-D.; Ciuntu, R.E. Use of Artificial Neural Networks to Predict the Progression of Glaucoma in Patients with Sleep Apnea. Appl. Sci. 2022, 12, 6061. https://doi.org/10.3390/ app12126061(**autor principal - autor corespondent**). **Q1**

11.Anton, C.; Leon, F.; Gavrilescu, M.; Dragoi, E.-N.; Floria, S.-A.; Curteanu, S.; **Lisa, C**. Obtaining Bricks Using Silicon-Based Materials: Experiments, Modeling and Optimization with Artificial Intelligence Tools. Mathematics 2022, 10, 1891. https://doi.org/10.3390/ math10111891 (**autor principal –autor corespondent**). **Q1**

12.Bejenari, V., **Lisa, C.**, Cernătescu, C., Mămăligă, I., Lisa, G. Isothermal Drying Kinetic Study of Spent Coffee Grounds Using Thermogravimetric Analysis, (2022) International Journal of Chemical Engineering, 2022, art. no. 2312147. **Q3**
http://www.hindawi.com/journals/ijce/doi: 10.1155/2022/2312147(**autor principal – autor corespondent**).

13. Anton, C.; Curteanu, S.; **Lisa, C.**; Leon, F. Machine Learning Methods Applied for Modeling the Process of Obtaining Bricks Using Silicon-Based Materials. Materials 2021, 14, 7232. https://doi.org/ 10.3390/ma14237232. (**autor principal – autor corespondent**). **Q1**

14.Anton, N.; Dragoi, E.N.; Tarcoveanu, F.; Ciuntu, R.E.; **Lisa, C.**; Curteanu, S.; Doroftei, B.; Ciuntu, B.M.; Chiselita, D.; Bogdanici, C.M. Assessing Changes in Diabetic Retinopathy Caused by Diabetes Mellitus and Glaucoma Using Support Vector Machines in Combination with Differential Evolution Algorithm. Appl. Sci. 2021, 11, 3944. https://doi.org/10.3390/ app11093944 (**autor principal – autor corespondent**).**Q1**

15.A Mihaila, **C Lisa**, AM Ipate, MF Zaltariov, D Rusu, I Mămăligă, G Lisa, Determination of the effective diffusion coefficient during the drying of paint and varnish films applied on fir wood, Progress in Organic Coatings 137, 105344, **2019** (**autor principal – autor corespondent**) **Q1**

16. A Mihăilă, **C Lisa**, I Mămăligă, G Lisa, Kinetics of drying of certain lacquers and paints in isothermal conditions using a thermogravimetric analyser, Journal of Thermal Analysis and Calorimetry **2019,** 138 (3), 2315-2322 **Q1** (la momentul publicarii)

17.Anton Apreutesei, N, Tircoveanu, F., Cantemir, A. Bogdanici, C., **Lisa, C.**, Curteanu, S.,Chiseliţă, D, Predictions of ocular changes caused by diabetes in glaucoma patients, Computer Methods and Programs in Biomedicine, Volume 154, February **2018**, Pages 183-190 (**autor principal– autor corespondent**). **Q1**

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J. Invenţii.

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Director de grant/contract

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P2 Director proiect GI/P31/2021, Proiect pentru susţinerea capacităţii de publicare, valoare 45000 Ron

Membru în colectiv

P1 Membru proiect Arut Saramură ultrapură pentru performanța electrolizei alcaline cu obținerea hidrogenului verde, valoare 49000, perioada febr 2024- febr 2025

P2 membru Proiect Rose Ctr. Rose, AG129/SGU/PV/2019, Şcoala de vară pentru elevi ”Reacționează Chimic cu Mediul de la TUIași”, atelierul Fenomene de transfer de… cunoștințe, 2021-2024.

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L. Premii, distincţii.

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M. Alte realizări semnificative.

- ✓ posesor al Permisului European de Conducere a Calculatorului (ECDL)
- ✓ participare în comisiile de licenta sectia Inginerie Chimica și Știința și Ingineria Polimerilor
- ✓ îndrumare lucrări prezentate la cercuri ştiinţifice;
- ✓ organizare şi îndrumare activităţi didactice în laboratoare didactice şi de cercetare ştiinţifică în catedra de Inginerie Chimică
- ✓ peste 40 comunicări şi prezentări la manifestări ştiinţifice internaţionale, naţionale cu/fără participare internaţională

Data, Semnătură,

4.03.2023

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

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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.

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2 - Drăgoi E.N, Suditu G.D., Nechita M.T., *Artificial intelligence based modelling and optimization of a hybrid equipment for wastewater treatment*, ICMIE 2021 Proceedings, Business Change and Digital Transformation in a World Moving Through Crisis, November 11th – 12th, 2021, Bucharest, Romania, Editura NICULESCU, ISSN 2344-0937, ISSN-L 2344-0937

3 - Sava E., Pintilie L., Nechita M. T., *Optimizarea procesului de decolorare a unui efluent folosind metoda suprafeței de răspuns*, Technical Scientific Conference of Undergraduate, Master, PhD students, Technical University of Moldova, Chisinau, Republic of Moldova, March 29-31, 2022, Vol. I, https://ibn.idsi.md/sites/default/files/imag_file/p-660-663.pdf –

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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.

J. Invenţii.

Nr	Titlu	Tip
1	*Instalație pentru epurarea apelor uzate prin metode foto- sono-chimice*, Suditu. D., Nechita M. T., Puițel A. C., Drăgoi E. N., **RO 135064 B1, BOPI nr. 7/2025**	OSIM
2	*Metodologie de optimizare a procesului de decolorare a leșiei negre folosind algoritmi de inspirație biologica*, Drăgoi E.N., Nechita M.T., Suditu G.D., Puițel A.C., nr. 4749/20.11.**2023**	ORDA
3	*Procedeu de valorificare integrală a unor reziduuri lignocelulozice provenite din culturile agricole*, Puițel A.C., Bârjoveanu G,, Drăgoi E. N., Nechita M. T., Balan C. D.,Custură E. A., 139183 A2, BOPI nr. 10/2025 (***cerere de brevet***)	OSIM

K. Contracte de cercetare.

Director de grant/contract

Nr.	Titlul proiectului	Tip	Valoare	AN	Director
Director					
1	Investigaţii privind structura şi rolul nanocentrilor de fier la formarea oxigenului α pe catalizatorul cu comportare biomimetică Fe-ZSM-5 preparat prin metoda oxalatului de fier III	Grant CNCSIS nr. 27637/2005 tema 72, cod CNCSIS 123	80000 (mii lei)	2005	Sef lucrari.dr.ing . Mircea Teodor Nechita

Membru în colectiv

Nr.	Titlul proiectului	Tip	Valoare	AN	Director
1	Determinarea biostabilităţii şi biocompatibilităţii materialelor dentare prin utilizarea reţelelor neuronale	Grant 63 Tema 25 COD CNCSIS 124	17500 RON	2006	Prof.dr.ing. Daniel Sutiman
		Grant 80, Tema 52 COD CNCSIS 124	17500 RON	2007	
2	Studii asupra difuziunii şi echilibrului de fază în filme şi membrane polimerice în apropierea temperaturii de tranziţie	Grant 80 Tema 52 COD CNCSIS 124	29650 RON	2007	Conf.dr.ing. Ioan Mamaliga
3	Proiectarea, construcția și testarea unui prototip hibrid de echipament pentru degradarea cianurilor condus cu sistem expert	GNaC2018_20/ 2019	27940.24 RON	2019-2020	Sef lucrari dr. ing. Suditu Dan Gabriel
4	Fracţionarea biomasei în sistem integrat de biorafinare pentru obţinerea de produse sustenabile	GNaC2018_15/ 2019	27997 RON	2019-2020	S.l. dr. ing. Adrian Catalin Puitel
5	Modelare și optimizare bazată pe inteligența artificială aplicată unui sistem hibrid dezvoltat prin simbioza unor metode de tratare a apelor uzate	PN III 58 PCE/2021	522486 331512 336310 RON	2021 2022 2023	S.l. dr. ing. Elena Niculina Dragoi
6	Tehnologie sustenabila pentru procesarea reziduurilor lignocelulozice rezultate din culturile agricole in vederea integrarii in economia circulara	PN III 643 PED/2022	146765 376139 75891 RON	2022 2023 2024	S.l. dr. Ing. Adrian Catalin Puitel

L. Premii, distincţii.

2 medalii de aur, Euroinvent 2023, 2024

M. Alte realizări semnificative.

Burse, specializări, stagii de pregătire

Nr	Durata	Denumire	Țara	Coordonator(i)
1	1 an	The synthesis of some inorganic compounds containing transition metals and their possible applications in catalysis (2001)	România/ Elveția	Prof. I. Roșca/ Prof. G. Stratan
2	6 luni	Potentiometric and amperometric sensors (2002 – 2003)	Polonia	Prof. J Radecki
3	5 luni	Training and research in the field of spectroscopic and computational characterisation of heterogeneous catalysts (2003 – 2004)	Italia	Prof. A. Zecchina Prof. G. Ricchiardi
4	4 luni	Preparation, characterisation and catalytic performances of some transitional metals supported on ZSM-5 zeolite catalysts (2005)	Italia	Prof. A. Zecchina Prof. G. Ricchiardi

Data, Semnătură,



Anexa A.3.7 - Lista de lucrari, cadre didactice

Lista de lucrări în domeniul de studii universitare de licenţă INGINERIE CHIMICĂ

Numele şi prenumele: **CIURARIU Gabriela**

A. Teza de doctorat.

DIAGNOZĂ ŞI PROGNOZĂ ÎN ANALIZA RENTABILITĂŢII ŞI RISCULUI FIRMEI**,** Universitatea „A.I.Cuza" Iaşi, 2003

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

1.	**CIURARIU**, Gabriela, *Elemente de matematici aplicate în economie,* Editura TEHNICA-INFO, Chişinău, 2010, ISBN 978-9975-633-063-4
2.	**CIURARIU**, Gabriela, *Diagnostic economico-financiar-studii de caz,* Editura Libertatea, Panciova-Serbia-Novi Sad, 2007, ISBN 86-7001-183-2

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

1.	**CIURARIU**, Gabriela, Cîndea, Moise, *Managementul financiar-contabil al firmei*, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2022, ISBN 978-606-687-505-9
2.	**CIURARIU**, Gabriela, *Noțiuni economice pentru ingineri*, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2021, ISBN 978-606-687-453-3
3.	**CIURARIU**, Gabriela, *Evaluarea întreprinderii. Elemente metodologice şi aplicaţii*, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2013, ISBN 978-606-687-055-9
4.	**CIURARIU**, Gabriela, *Investiţii*, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2012, ISBN 978-973-702-939-3
5.	**CIURARIU**, Gabriela, *Analiză economico-financiară*, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2011, ISBN 978-973-702-834-1
6.	**CIURARIU**, Gabriela, *Microeconomie,* Editura Sedcom Libris (cod CNCSIS 179), Iaşi, 2008, ISBN 978-973-670-262-4
	Alexandri, Cecilia, Chițea, Lorena, Leonte, Marie, Munteanu, Cătălin (coord.), *Reziliență, sustenabilitate și profitabilitate în sectorul agricol și spațiul rural,* Editura Academiei Române, București 2025, ISBN 978-973-27-4010-1
7.	**CIURARIU**, Gabriela, *Diagnoza şi prognoza rentabilităţii şi riscului firmei,* Editura Sedcom Libris (cod CNCSIS 179), Iaşi, 2005, ISBN 973-670-147-6
8.	Păduraru, Teodor, Jijie, Dumitru Tudor, Doncean, Marilena, Tavu, Georgiana (coord.), *Dezvoltarea economico-socială durabilă a euroregiunilor și a zonelor transfrontaliere,* Volum XXIV, Editura Tehnopress (cod CNCSIS 89), 2015, ISBN 978-606-687-222-5
9.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul XIV, Editura TERRA NOSTRA (cod CNCSIS 029), 2015, ISBN 978-973-8432-53-6

10.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul XIII, Editura TERRA NOSTRA (cod CNCSIS 029), 2014, ISBN 978-973-8432-53-6
11.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul XII, Editura TERRA NOSTRA (cod CNCSIS 029), 2013, ISBN 978-973-8432-53-6
12.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul XI, Editura TERRA NOSTRA (cod CNCSIS 029), 2012, ISBN 978-973-8432-53-6
13.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul IX, Editura TERRA NOSTRA (cod CNCSIS 029), 2010, ISBN 978-973-8432-53-6
14.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală,* Tomul VIII, Editura TERRA NOSTRA (cod CNCSIS 029), 2009, ISBN 978-973-8432-53-6
15.	Vlădeanu, Dorian, Toma, Ion, Gherasim, Ovidiu (coord.), *Progrese în teoria deciziei economice în condiţii de risc şi incertitudine*, vol. IX, Capitolul " Current theories and practices of modern economics", Iaşi, 2009, Editura Tehnopress (cod CNCSIS 89), Iaşi, 2009, ISBN 978-973-702-688-0
16.	Voinea, Gheorghe, Chirleşan, Dan (coord.), *Valenţe ale relaţiei oportunităţi investiţionale-active necorporale la nivel european,* Editura Universităţii "A.I.Cuza" (cod CNCSIS 136), Iaşi, 2008, ISBN 978-973- 703-333
17.	Bohatereţ, Valentin Mihai (coord.), *Studii şi cercetări de economie rurală-Convergenţe în cercetarea spaţiului rural*", Tomul VI, Editura TERRA NOSTRA (cod CNCSIS 029), 2007, ISBN 978-973-8432-85-7
18.	Bohatereţ, Valentin Mihai (coord.), *Spaţiul rural. Abordări multiple,* Volumul II, Editura TERRA NOSTRA (cod CNCSIS 029), 2006, ISBN 978-973-8432-53-6
19.	Talabă, Ion, Profir, Lucian, Covalinschi, Daniela (coord.), *Euroregiunile-prezent şi viitor*, Ed. Performantica (cod CNCSIS 85), Iaşi, 2005, ISBN 973-730-153-6

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.	Mihaela-Nona Chilian, Marioara Iordan, Gabriela CIURARIU, *Green transition and the business sector in the European Union and Romania*, Holistica Journal of Business and Public Administration, ISSN L2067-9785, nr. 14/2023, DOI:10.2478/hjbpa-2023-0015
2.	Mihaela-Nona Chilian, Marioara Iordan, Gabriela **CIURARIU**, „*Economic vulnerability – concept and indicators"*, in The Yearbook of the "Gh. Zane" Institute for Economis and Social Research Iaşi, Volume 28/2019, Romanian Academy Publishing House, Bucureşti, ISSN 1453-4061 (Categoria B+ CNCSIS), indexat EBSCO, ProQuest, REPEC International Database
3.	**CIURARIU**, Gabriela, „*Assessment of enterprise based on the method of ratios"*, in The Yearbook of the "Gh. Zane" Institute for Economis and Social Research Iaşi, Volume 26/2017, Issue 2, Romanian Academy Publishing House, Bucureşti, ISSN

	1453-4061 (Categoria B+ CNCSIS), indexat EBSCO, ProQuest, REPEC International Database
4.	**CIURARIU**, Gabriela, *"Type of analysis of skills and labor mobility"* în International Journal of Economics &Law, ISSN 2217-5504, Issue 13/2015, pp. 16-19
5.	**CIURARIU**, Gabriela "*The utility rates in firm's profitability analysis*", in "Economy, Transdisciplinarity, Cognition", Vol. XVIII, Issue 1/2015, George Bacovia University Printing House, Bacău, ISSN 2067-5046 indexată ProQuest, Cabell's, Directory of Open Access Journals (DOAJ), (Categoria B+ CNCSIS)
6.	**CIURARIU**, Gabriela, „*Profitability analysis based on income statement"*, in The Yearbook of the "Gh. Zane" Institute for Economis and Social Research Iaşi, Volume 23/2014, Issue 2, Romanian Academy Publishing House, Bucureşti, ISSN 1453-4061 (Categoria B+ CNCSIS), indexat EBSCO, ProQuest, REPEC International Database
7.	Cîndea, Moise; **CIURARIU**, Gabriela, „*Management control and its role in enterprise"*, in The Yearbook of the "Gh. Zane" Institute for Economis and Social Research Iaşi, Volume 23/2014, Issue 2, Romanian Academy Publishing House, Bucureşti, ISSN 1453-4061 (Categoria B+ CNCSIS), indexat EBSCO, ProQuest, REPEC International Database
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9.	**CIURARIU**, Gabriela, *"Model analysis of fixed assets"* în International Journal of Economics &Law, Issue 12/2014, ISSN 2217-5504, pp. 41-48
10.	Cîndea, Moise; Cîndea, Iuliana-Marina; **CIURARIU,** Gabriela; Trifu, Alexandru; Durdureanu Corneliu, „*The old versus de new Optimum Currency Area Theory*", in EBMM 2011, ***2011*** *International Conference on Economics, Business and Marketing Management,* Publisher: Institute of Electrical and Electronics Engineers, Inc., *Shanghai, China,* IEEE Catalog Number: CFP1149M-ART; ISBN: 978-1-4244-9545-0, IEEE Catalog Number: CFP1149M-PRT, ISBN: 978-1-4244-9543-6 Thomson ISI Proceedings
11.	Cîndea, Moise; Cîndea, Iuliana-Marina; **CIURARIU,** Gabriela; Trifu, Alexandru; Durdureanu Corneliu, „*History of accountancy. A chronological approach*", International Proceedings of Economics Development and Research, ISSN 2010-4626, Volume 11, March 2011, pp. 18-24, Hong-Kong, Thomson ISI Proceedings
12.	Cîndea, Moise, **CIURARIU**, Gabriela, *Values of the EU Accounting Profession"*, in Economic Sciences Series Volume XI, Issue 2, Year 2011, Ovidius University Press, Constanţa, ISSN 1582-9383- revistă cotată B+ CNCSIS, recenzat de bazele de date internaţionale DOAJ, REPEC, EBSCO
13.	Cîndea, Moise, Cîndea, Iuliana Marina, **CIURARIU**, Gabriela Corneliu Durdureanu, *Significant Historic Reference Points on Accountancy at Global Level,* în Annals of Ovidius University of Constanta, nr. 1//2011, Economic Sciences Series – revistă cotată CNCSIS B+ și indexată REPEC, DOAJ, EBSCO, CABELL
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15.	**CIURARIU**, Gabriela, Cîndea, Moise, *Impact on the rate of the Euro area economy,* în Anuarul Institutului de cercetări economice Gheorghe Zane, Nr. 20/2011, Ed. Academiei Române - revistă cotată CNCSIS B+, indexat EBSCO, ProQuest, REPEC International Database

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2.	**CIURARIU**, Gabriela, *"Model analysis of fixed assets"* în International Journal of Economics &Law, Issue 12/2014, ISSN 2217-5504, pp. 41-48

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

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3.	Gabriela **CIURARIU**, *Analysis of the company's profitability using the rate method,* în volumul International Conference Knowledge Economy-Challenges of the 21st Century-Europe strategic choices in the face of global Challenges, Pitești, 27 november 2025
4.	Marioara IORDAN, Mihaela-Nona CHILIAN, Gabriela **CIURARIU**, Vanesa Mădălina TEODORESCU „*Tourism Development in the North-East Region of Romania: What the Tourism Indicators Reveal*", în volumul conferinței internaționale "Reziliență, sustenabilitate și profitabilitate în sectorul agricol și spațiul rural", Institutul de Economie Agrară al Academiei Române, 5 decembrie 2024, București
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K. Contracte de cercetare.

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2.	Proiectul ***"Utilități și mediu la standarde europene",*** 13704/792 din 19.09.2013, încheiat între Primăria Municipiului Rădăuți și Asociația Generală a Economiștilor din Romania/ASOEC Moldova, în valoare de 15000 Euro, derulat pe perioada 2013-2014
3.	Proiectul CEEX-PN2, Contract nr. 2569/15.09.2007, **"*Elaborarea şi implementarea unor modele de exploataţii apicole viabile în contextul economic european*"**, Contractor: USAMV Iaşi, Subcontractori: ICDA Bucureşti, Institutul de Cercetări Economice şi Sociale "Gh. Zane", Iaşi, perioada de implementare: 15.09.2007 - 15.09.2010
4.	Proiectul CEEX P-CD-Parteneriate ***„Evaluarea stadiului actual şi a potenţialului de dezvoltare a producţiei legumicole ecologice în zona de Nord Est a României"*** – PRODLECO, 31/12.01.2006, Institutul de Cercetări Economice şi Sociale „Gh. Zane", Iaşi, în parteneriat cu Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad" (U.Ş.A.M.V.) Iaşi (coordonator), perioada de implementare 12.01.2006-15.10.2008
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6.	Programul CEEX-C1-M105-D8-24/05.10.2005, **"*Creşterea economică, ocuparea şi competitivitatea în economia bazată pe cunoaştere*"**, Autoritatea contractantă: Institutul de Fizică Atomică, Contractor: Institutul de Prognoză Economică, perioada de implementare: 2005-2008
7.	Programul CEEX – MIII – Proiect PRO-CESIPAF, **"*Promovarea si valorificarea cercetarii stiintifice interdisciplinare in domeniul diagnozei si prognozei in afaceri publice si private prin colaborare europeana si internationala -PRO-CESIPAF (2006-2007)"*,** contract nr. 37/CEEX/MIII/CORINT, Autoritatea contractantă CNMP din cadrul MEC/ANSTI, perioada de implementare: 2006-2007
8.	Grant CNCSIS, Tip A Nr.1581/2005, Cod **1581 "*Analiza web-pedagogy şi dezvoltarea strategiilor de învăţare interactivă în cadrul procesului de educare a adulţilor (w-p-way)*"** , Autoritatea contractantă: Universitatea "A. I. Cuza" Iaşi, Valoare 19000 RON, perioada de implementare: 2005-2008

Data,
22.12.2025



* Conform H.G. 1175/ 2006

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Suditu Gabriel Dan**

A. Teza de doctorat.

Institutie: *Universitatea Tehnică „Gheorghe Asachi" din Iași*
Perioada: 2009-2013, data susţinere: 27.09.2013
Indrumator: prof.dr.ing. Silvia Curteanu
Titlul tezei: Metode de învăţare automată destinate clasificării de parametri din procese ale industriei chimice,
Titlul: titlul de doctor confirmat prin OMEN 5581MD/3.12.2013

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.

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Daniel Mareci, Gabriel Dan Suditu, Romeu Chelariu, Lucia Carmen Trinca, Silvia Curteanu, Prediction of corrosion resistance of some dental metallic materials applying artificial neural networks, Materials and Corrosion, November 2016, Vol. 67, No. 11, pp. 1213-1219, DOI: 10.1002/maco.201608848

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Marius Sebastian Secula, Gabriel Dan Suditu, Ioannis Poulios, Cornel Cojocaru, Igor Cretescu, Response surface optimization of the photocatalytic decolorization of a simulated dyestuff effluent, Chemical Engineering Journal, July 2008, Vol. 141, No. 1-3, pp. 18–26, DOI: 10.1016/j.cej.2007.10.003

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G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

Alexandru Ioan Atomi, Gabriel Dan Suditu, Adrian Cătălin Puiţel, Mircea Teodor Nechita, Experimental Study on TiO2 Promoted Photo-Degradation of Methylene Blue, Bulletin of Romanian Chemical Engineering Society, Vol 5, No. 1, 2018, ISSN 2360-4697

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

J. Invenţii.

Gabriel Dan Suditu, Mircea Teodor Nechita, Adrian Cătălin Puiţel, Elena Niculina Drăgoi, Instalaţie pentru epurarea apelor uzate prin metode foto-sono-chimice, cerere brevet nr. A/00922/20.12.2019

Igor Creţescu, Gabriel Dan Suditu, Matei Macoveanu, Gabriela Şoreanu, Electroreactor destinat epurării avansate a apelor uzate încărcate cu substanţe organice, Brevet nr. 515A/2004

K. Contracte de cercetare.

Director de grant/contract

Contract GnaC2018_20 / 2019: Proiectarea, construcția și testarea unui prototip hibrid de echipament pentru degradarea cianurilor condus cu sistem expert, 2019-2020

Membru în colectiv

Contract PN-II, no. 23/2012, Software based on artificialintelligence algorithms with applications in modelling and optimization of chemical systems, 2012-2015

Contract 59/2007, Id_592, Configuratii hibride soft-computing cu aplicatii in chimie, 2007-2010

Contract PC 71-006, Modelare şi conducere automată utilizând instrumente ale inteligenţei artificiale pentru aplicaţii în chimie şi inginerie de proces, 2007-2010

Contract CEEX 52/2006, Materiale siliconice nanostructurate multifunctionale, Subcontract: Tehnici ale inteligenţei artificiale aplicate modelării şi optimizării unor materialelor siliconice, 2006-2009

Contract CNCSIS nr. 63 GR/2006, tema 10, cod 225, Tehnici ale inteligentei artificiale aplicate proceselor de sinteza si complexare a polisiloxanilor functionalizati, 2006-2008

Contract CEEX 10/10.10.2005, Materiale compozite nanostructurate polimerice cu utilizare in monitorizarea mediului, Subcontract: Materiale compozite nanostructurate polimerice cu

utilizare in monitorizarea mediului. Modelare şi optimizare cu reţele neuronale şi algoritmi genetici, 2005-2008

Contract CNFIS-FDI-2023-F-0016 - TechGo2 – Dezvoltarea instituțională pentru competențe transversale în TUIASI, 2023

Contract 544482-TEMPUS-1-2013-1-IT-TEMPUS-JPHES, BAEKTEL – Blending Academic and Entrepreneurial Knowledge in Technology Enhanced Learning, Program: TEMPUS, 2015–2022

Contract 129/SGU/PV/II, Reacționează Chimic cu Mediul de la TUIASI (RCM TUIASI), ROSE – Romanian Secondary Education Project, Program: proiect național finanțat de Banca Mondială, Implementare locală la facultate prin școli de vară și activități educaționale, 2019–2024.

Contract POCU/626/6/13/131181, Inserția absolvenților prin stagii de pregătire practică moderne și eficiente (PRACTEH), Program: POCU, Cod SMIS: 131181, 2020-2024

L. Premii, distincţii.

M. Alte realizări semnificative.

Lucrări prezentate la manifestari stiintifice internationale

Mircea Teodor Nechita, Elena Niculina Drăgoi, Gabriel Dan Suditu, Adrian Cătălin Puițel, Analysis of the Residence Time Distribution of a Photochemical Reactor, RICCCE 21 - 21st Romanian International Conference on Chemistry and Chemical Engineering, September 4-7 2019, Constanța – Mamaia

Gabriel Dan Suditu, Adrian Cătălin Puițel, Elena Niculina Drăgoi, Mircea Teodor Nechita, Hybrid Wastewater Treatment System Combining Photo, Sono and Chemical Methods, 18-21 septembrie, 10th International Conference on Environmental Engineering and Management (ICEEM2019), Iaşi

Gabriel Dan Suditu, Adrian Cătălin Puițel, Elena Niculina Drăgoi, Mircea Teodor Nechita, Loredana Pintilie, Residence Time Distribution Diagnosis on Four Lamps Photochemical Reactor, International Conference “Achievements and Perspectives of Modern Chemistry”, October 9-11, 2019, Chisinau, Republic of Moldova

Loredana Pintilie, Elena Niculina Drăgoi, Adrian Cătălin Puițel, Mircea Teodor Nechita, Gabriel Dan Suditu, Influence of Inlet and Outlet Positions on the Hydrodinamic Performances of a Lab-Scale Reactor, TEME 2019 - Vth International Conference New Trends in Environmental and Materials Engineering, October 23-25 2019, Galați

Data,
Martie 2026

S

Anexa II.7.9 - Liste de lucrări cadre didactice

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Chimică

Numele şi prenumele: **Postolache Loredana-Vasilica**

A. Teza de doctorat.

Institutie: FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI ”CRISTOFOR SIMIONESCU”
Perioada: 2022-Prezent
Indrumator: Prof. univ.dr.ing.habil. Gabriela Lisa
Titlul tezei: VALORIFICAREA ENERGETICĂ A DEȘEURILOR ÎN CUPTOARELE DIN FABRICILE DE CIMENT

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

- Articole publicate în reviste cotate ISI

- Lazar, L.; **Postolache, L.-V.**; Danilova, V.; Coman, D.; Bele, A.; Rusu, D.; Zaltariov, M.-F.; Lisa, G. Long-Term Physical and Chemical Stability and Energy Recovery Potential Assessment of a New Chelating Resin Used in Brine Treatment for Chlor-Alkali Plants. Polymers 2025, 17, 1575. https://doi.org/10.3390/polym17111575
- **Postolache, L.-V.**, Soreanu, G, Cretescu, I., Lisa, G. ANALYSIS OF THE THERMAL BEHAVIOUR OF VARIOUS WASTES CO-PROCESSED IN CEMENT PLANTS. Environmental Engineering & Management Journal (EEMJ). 2025 Jan 1;24(1). http://doi.org/10.30638/eemj.2025.017
- **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, Volume 31, 2025, 101175, ISSN 2589-2347, https://doi.org/10.1016/j.mtsust.2025.101175
- **Loredana-Vasilica Postolache**, Gabriela Soreanu, Igor Cretescu, Nita Tudorachi, Daniela Rusu, Mirela-Fernanda Zaltariov, Ion Anghel, Dana Maria Preda, Gabriela Lisa, Studies on energy recovery from microalgae and plants wastes, Biomass and Bioenergy, Volume 206, March 2026, 108586, https://doi.org/10.1016/j.biombioe.2025.108586

- Articole indexate în baze de date internaţionale

- **Postolache, L.-V.**; Soreanu, G.; Cretescu, I.; et al. *Modeling and Optimization of Thermal Stability and Heat Release Capacity of Waste Mixtures with Biomass Residues (Chlorella vulgaris)*. **Advanced Chemical Process Analysis** 2025, 1(1), 6.
- Valverde, J.L., Ferro, V.R., **Postolache, L.V.**, et al., 2024. *Efficient Exergy Analysis of Chemical Processes through Process Engineering Software*. **Journal of Computer Science Research**. 6(3): 23–44.
- **Postolache, L.-V.**, Palarii, A., Nicuță, A.-M., Săvuc, G.-C., Smoc, L.-G., & Lisa, G. (2024). *Studies on Energy Recovery of Textile Waste*. **Buletinul Institutului Politehnic din Iași, Secția Chimie și Inginerie Chimică** (Vol. 70, Number 2, pp. 9–18).

G. Lucrări ştiinţifice publicate în reviste din străinătate.

- Lazar, L.; **Postolache, L.-V.**; Danilova, V.; Coman, D.; Bele, A.; Rusu, D.; Zaltariov, M.-F.; Lisa, G. Long-Term Physical and Chemical Stability and Energy Recovery Potential Assessment of a New Chelating Resin Used in Brine Treatment for Chlor-Alkali Plants. Polymers 2025, 17, 1575. https://doi.org/10.3390/polym17111575
- **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, Volume 31, 2025, 101175, ISSN 2589-2347, https://doi.org/10.1016/j.mtsust.2025.101175
- **Loredana-Vasilica Postolache**, Gabriela Soreanu, Igor Cretescu, Nita Tudorachi, Daniela Rusu, Mirela-Fernanda Zaltariov, Ion Anghel, Dana Maria Preda, Gabriela Lisa, Studies on energy recovery from microalgae and plants wastes, Biomass and Bioenergy, Volume 206, March 2026, 108586, https://doi.org/10.1016/j.biombioe.2025.108586
- **Postolache, L.-V.**; Soreanu, G.; Cretescu, I.; et al. *Modeling and Optimization of Thermal Stability and Heat Release Capacity of Waste Mixtures with Biomass Residues (Chlorella vulgaris)*. **Advanced Chemical Process Analysis** 2025, 1(1), 6.
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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

- **Postolache, L.-V.**, Soreanu, G, Cretescu, I., Lisa, G. ANALYSIS OF THE THERMAL BEHAVIOUR OF VARIOUS WASTES CO-PROCESSED IN CEMENT PLANTS. Environmental Engineering & Management Journal (EEMJ). 2025 Jan 1;24(1). http://doi.org/10.30638/eemj.2025.017
- **Postolache, L.-V.**, Palarii, A., Nicuță, A.-M., Săvuc, G.-C., Smoc, L.-G., & Lisa, G. (2024). *Studies on Energy Recovery of Textile Waste*. **Buletinul Institutului Politehnic din Iași, Secția Chimie și Inginerie Chimică** (Vol. 70, Number 2, pp. 9–18).

Data, Semnătură,