



Curriculum vitae Europass



Informații personale	
Nume / Prenume	Popa Ionel Marcel
Adresă(e)	Str. Grădinari Nr.6, Bl. H32, Et. 1, Apt 7, Iași
Telefon(oane)	Mobile: 0744496751
E-mail(uri)	mipopa@tuiasi.ro ; impopa@yshoo.fr
Naționalitate(-tăți)	Română
Data nașterii	2 mai 1950
Locul nașterii (loc, județ)	Panciu, Jud. Vrancea
Stare civilă	căsătorit
Sex	masculin
Experiența profesională (în ordine invers cronologică)	
Perioada	2016 până în prezent
Funcția sau postul ocupat	Prof. univ. em . dr. ing.
Activități și responsabilități principale	cercetare
Numele și adresa angajatorului	Universitatea Tehnică "Gheorghe Asachi" din Iași, Bd. Dimitrie Mangeron 68, Iași
Tipul activității sau sectorul de activitate	Invățământ superior
Perioada	1998-2016
Funcția sau postul ocupat	Profesor univ. dr. ing
Activități și responsabilități principale	Predare/cercetare
Numele și adresa angajatorului	Universitatea Tehnică "Gheorghe Asachi" din Iași, Bd. Dimitrie Mangeron 68, Iași
Tipul activității sau sectorul de activitate	Invățământ superior
Perioada	1992-1998
Funcția sau postul ocupat	Conferențiar
Activități și responsabilități principale	Predare/cercetare
Numele și adresa angajatorului	Universitatea Tehnică "Gheorghe Asachi" din Iași, Bd. Dimitrie Mangeron 68, Iași

Tipul activității sau sectorul de activitate	Invățământ superior
Perioada	1986-1998
Funcția sau postul ocupat	Sef lucrări
Activități și responsabilități principale	Predare/cercetare
Numele și adresa angajatorului	Universitatea Tehnică "Gheorghe Asachi" din Iași, Bd. Dimitrie Mangeron 68, Iași
Tipul activității sau sectorul de activitate	Invățământ superior
Perioada	1979-1986
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Predare/cercetare
Numele și adresa angajatorului	Universitatea Tehnică "Gheorghe Asachi" din Iași
Tipul activității sau sectorul de activitate	Invățământ superior
Perioada	1975-1979
Funcția sau postul ocupat	Inginer chimist
Activități și responsabilități principale	Sef instalație
Numele și adresa angajatorului	CFS Iași, Str. Calea Chișinăului Nr.27
Tipul activității sau sectorul de activitate	Producție
Perioada	1970-1975
Calificarea / diploma obținută	Student/ inginer chimist
Disciplinele principale studiate / competențe profesionale dobândite	Chimie analitică, Chimie organică, Chimie fizică, Utilaje și fenomene de transfer în industria chimică, Tehnologia compușilor macromoleculari, Chimia compușilor macromoleculari
Numele și tipul instituției de învățământ / furnizorului de formare	Institutul Politehnic "Gheorghe Asachi" din Iași
Perioada	1979-1986
Calificarea / diploma obținută	Doctorat/doctor inginer
Disciplinele principale studiate / competențe profesionale dobândite	
Numele și tipul instituției de învățământ / furnizorului de formare	Institutul Politehnic "Gheorghe Asachi" din Iași
Perioada	1993-1994
Calificarea / diploma obținută	Post doctorat
Disciplinele principale studiate / competențe profesionale dobândite	
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Paris-sud, Facultatea de Farmacie

Membru al unei Academii din România	Membru corespondent al Academiei Oamenilor de Știință din România din 2019								
Membru al unei Academii din străinătate									
Membru al unor organizații științifice sau profesionale	1. Societatea de Cataliză, România, București, 1999 2. Societatea de Inginerie Chimică, România, București, 2001 3. Societatea de Chimie, România, București, 2002 4. Societatea Română de Biomateriale, România, București, 2005								
Membru în Comitetul științific de organizare a unei manifestări științifice	1. November, 9-11th, 2006, International Conference on Biomaterials and Material Devices, Societatea Română de Biomateriale și Universitatea de Medicină și Farmacie „Grigore T. Popa”, România, Iași								
Membru în Colegiul de redacție / referent al unei reviste	1. Environmental Engineering and Management Journal, Ed. EcoZone, ISSN 1582-9596, Fi 0,94, lunar 2. Scientific Study and Research, Ed. Alma Mater, ISSN 2068-7559, bilunar 3. Buletinul Institutului Politehnic din Iași, Ed. Politehnicum, ISSN 2537-2542, bilunar								
PREMII INTERNAZIONALE									
PREMII NATIONALE									
Aptitudini și competențe personale	Caracterizarea fizico-chimică a polimerilor naturali și sintetici utilizați în medicină; • Studii termodinamice și cinetice ale unor sisteme polimer-substanță activă; • Caracterizarea fizico-chimică a polielectroliților naturali și sintetici • Sinteza și caracterizarea micro și nanoparticulelor care conțin polimeri naturali cu aplicații în formulări de medicamente cu eliberare controlată. • Studiul cinetic al eliberării componentelor bioactive din matrice nanostructurate. • Funcționalizarea suprafețelor polimerice								
Limba(i) maternă(e)	Română								
Limba(i) străină(e) cunoscută(e)									
Autoevaluare	Înțelegere				Vorbire				Scriere
<i>Nivel european (*)</i>	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă
Limba engleză	A2		B1		B1		A1		B2
Limba franceză	C2		C2		B1		C1		C1
	(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine								
Competențe și abilități sociale	capacitate bună de adaptare la medii multiculturale, acumulată prin experiența mea de lucru în străinătate								
Competențe și aptitudini organizatorice	conducător științific doctorat, director de proiecte de cercetare								
Competențe și aptitudini de utilizare a calculatorului	Microsoft Office (Word, Excel, PowerPoint);								
Competențe și aptitudini artistice									
Alte competențe și aptitudini									
Relațional									
Permis(e) de conducere	Categoriile B								
Informații suplimentare									
Anexe	LISTA DE LUCRĂRI ȘTIINȚIFICE MEMBRU ÎN ECHIPA DE CERCETARE în cadrul unor proiecte de cercetare								

ANEXE LA CV

LISTA DE LUCRĂRI ȘTIINȚIFICE

Lucrări publicate în reviste din străinătate cotate ISI

- 1. Development and characterisation of microporous biomimetic scaffolds loaded with magnetic nanoparticles as bone repairing material**
Florina D.Cojocaru, Vera Balan, Constantin-EdiTanase, Ionel Marcel Popa, Maria Butnaru, Ovidiu Bredetean, Mihai Mares, Valentin Nastasa, Sorin Pascal, Liliana Verestiuc
Ceramics International, (2021), 47(8), 11209-11219
- 2. Flaxseed Lignans and Polyphenols Enhanced Activity in Streptozotocin-Induced Diabetic Rats**
Dan Draganescu, Calin Andritoiu, Doina Hritcu, Gianina Dodi, Marcel Ionel Popa
Biology, (2021), 10(1), 43; <https://doi.org/10.3390/biology10010043>
- 3. Magnetic Composite Scaffolds for Potential Applications in Radiochemotherapy of Malignant Bone Tumors**
F.D. Cojocaru, V. Balan, M. I. Popa, A. Munteanu, A. Anghelache, L. Verestiuc
Medicine, (2019). 55(5), <https://doi.org/10.3390/medicina55050153>.
- 4. Magnetic chitosan grafted (alkyl acrylate) composite particles: Synthesis, characterization and evaluation as adsorbents**
M.L. Iordache, G. Dodi, D. Hritcu, D. Draganescu, O. Chiscan, M.I. Popa
Arabian Journal of Chemistry, (2018), 11(7), 1032-1043
- 5. Biopolymers – Calcium phosphates composites with inclusions of magnetic nanoparticles for bone tissue engineering**
F.D. Cojocaru, V. Balan, M.I. Popa, A. Lobiuc, A. Antoniac, I.V. Antoniac, L. Verestiuc
International Journal of Biological Macromolecules, (2019), 125, 612-620.
<https://doi.org/10.1016/j.ijbiomac.2018.12.083>
- 6. Magnetic Nanoparticles Inclusion into Scaffolds Based on Calcium Phosphates and Biopolymers for Bone Regeneration**
F.D.Ivan, V.Balan, M.Butnaru, I.M.Popa, L.Verestiuc
Key Engineering Materials, (2017), 745,16-25. <https://doi.org/10.4028/www.scientific.net/KEM.745.16>
- 7. Preparation and characterization of chitosan–poly(vinyl alcohol)–neomycin sulfate films**
Irina Paula Merlusca, Doina Simona Matiut, Gabriela Lisa, Mihaela Silion, Luiza Gradinaru, Stefan Oprea, Ionel Marcel Popa
Polymer Bulletin, (2017), 75(9), 3971–3986
- 8. Novel hybrid coatings with controlled wettability by composite nanoparticle aggregation**
Doina Hritcu, Gianina Dodi, Mirabela L. Iordache, Dan Draganescu, Elena Sava, Marcel I. Popa
Applied Surface Science, (2016), 387, 332–340
- 9. Nickel and molybdenum containing mesoporous catalysts for ethylene oligomerization and metathesis**
Radu Dorin Andrei, Marcel Ionel Popa, Claudia Cammarano, Vasile Hulea
New J.Chem., (2016), 40, 4146-52
G. Dodi, A. Pala, E. Barbu, D. Peptanariu, D. Hritcu, M.I. Popa, B.I.Tamba
Materials Science & Engineering C, (2016), 63:628–636, doi: 10.1016/j.msec.2016.03.032
- 10. Tailoring the properties of chitosan-poly(acrylic acid) based hydrogels by hydrophobic monomer incorporation**
Alina Gabriela Rusu, Marcel Ionel Popa, Constanta Ibanescu, Maricel Danu, Liliana Verestiuc
Materials Letters, (2016), 164, 320–324
- 11. Flaxseed lignan wound healing formulation: Characterization and in vitro therapeutic evaluation**
D. Draganescu, C. Ibanescu, B.I. Tamba, C.V.Andritoiu, G. Dodi, M.I. Popa
International Journal of Biological Macromolecules, (2015), 72, 614–623
<http://dx.doi.org/doi:10.1016/j.ijbiomac.2014.09.012>
- 12. New Formulation of Ophthalmic Hydrogels Based on Hyaluronic Acid Derivatives and Poly(acrylic acid)**
Vasi Ana-Maria; Popa Marcel Ionel; Vulpe Raluca; Butnaru Maria; Verestiuc Liliana
Journal of Hydrogels, (2015), 1(1), 57-62

13. **Biocompatible and Biodegradable Chitosan Clay Nanocomposites as New Carriers for Theophylline Controlled Release**
Catalina Natalia Cheaburu-Yilmaz, Raluca Petronela Dumitriu, Manuela-Tatiana Nistor, Catalina Lupusoru, Marcel Ionel Popa, Lenuta Profire, Clara Silvestre, Cornelia Vasile
BJPR, (2015), 6(4): 228-254
14. **Ethylene to Propylene by One-Pot Catalytic Cascade Reactions**
Radu Dorin Andrei, Marcel Ionel Popa, Francois Fajula, Claudia Cammarano, Atheer Al Khudhair, Karim Bouchmella, P. Hubert Mutin, Vasile Hulea
ACS Catal. (2015), 5, 2774–2777, DOI: 10.1021/acscatal.5b00383
15. **Thermal behavior of hydrophobically modified hydrogels using TGA/FTIR/MS analysis technique**
Alina Gabriela Rusu, Marcel Ionel Popa, Gabriela Lisa, Liliana Vereștiuc
Thermochimica Acta (2015), 613, 28–40
16. **Iron oxide nanoparticles for magnetically assisted patterned coatings**
Gianina Dodi, Doina Hritcu, Dan Draganescu, Marcel I. Popa
Journal of Magnetism and Magnetic Materials (2015), 388, 49–58
17. **Ni-exchanged AISBA-15 mesoporous materials as outstanding catalysts for ethylene oligomerization**
R.D. Andrei, M. Mureseanu, M. I. Popa, C. Cammaran, F. Fajula, V. Hulea
Eur. Phys. J. Special Topics (2015), 224, 1831–1841
18. **Antibacterial Quaternized Gellan Gum Based Particles for Controlled Release of Ciprofloxacin with Potential Dermal Applications**
O. Novac, G. Lisa, L. Profire, C. Tuchilus, M. I. Popa
Materials Science & Engineering C (2014), 35, 291–299
19. **Poly(Acrylic Acid)–Poly(Ethylene Glycol) Nanoparticles Designed for Ophthalmic Drug Delivery**
Ana-Maria Vasi, M. I. Popa, E. C. Tanase, Maria Butnaru, Liliana Verestiuc
Journal of Pharmaceutical Sciences (2014), 103, 676–686
20. **Chemical functionalization of hyaluronic acid for drug delivery applications**
Ana-Maria Vasi, M. I. Popa, Maria Butnaru, Gianina Dodi, Liliana Verestiuc
Materials Science & Engineering C (2014), 38, 177–185
21. **In vitro evaluation of biomimetic chitosan-calcium phosphate scaffolds with potential application in bone tissue engineering**
Tanase C.E., Sartoris A., Popa M.I., Verestiuc L., Unger R.E., Kirkpatrick C. J.
Biomed Mater. (2013), Apr;8(2):025002. doi: 10.1088/1748-6041/8/2/025002
22. **Evaluation of the Controlled Release Ability of Theophylline from Xanthan/Chondroitin Sulfate Hydrogels**
Ana-Maria Oprea, Manuela-Tatiana Nistor, Lenuta Profire, M. I. Popa, Catalina Elena Lupusoru, Cornelia Vasile
J. Biomaterials Nanobiotechnology, (2013), 4(2) 123-131
23. **Colorimetric and microscopic study of the thermal behavior of new ceramic pigments**
Ana Mihaela Saviuc-Paval, Andrei Victor Sandu, Ionel Marcel Popa, Irina Crina Anca, Sandu Andrei, Petru Berteau, Ion Sandu
Microscopy Research and Technology, (2013), 76(6), 564-571
24. **Synthesis and characterization of N-(2-aminoethyl)-2-acetamidyl gellan gum with potential biomedical applications**
O. Novac, G. Lisa, E. Barbu, F. Alhaique, M.I. Popa
Carbohydrate Polymers (2013), 98(1), 174–177 <http://dx.doi.org/10.1016/j.carbpol.2013.04.085>
25. **Mechanical Properties and Weathering Behavior of Polypropylene-Hemp Shives Composites**
M. I. Popa, Silvia Pernevan, Cecilia Sirghie, Iuliana Spiridon, Dorina Chambre, Dana Maria Copolovici, Niculina Popa
Journal of Chemistry, (2013), Article ID 343068, <http://dx.doi.org/10.1155/2013/343068>
26. **Considerations About the Impact Behavior of Biocomposites Based on Polypropylene and Furan Resins Reinforced with Hemp Shives**
M.S. Pernevan, L. Marșavina, D. Radu, M. I. Popa, C. Sirghie
Journal of Natural Fibers, (2013), 10 (2), 197-206
27. **Influence of the comonomer on the dissociation of some alternating maleic acid copolymers**
Irina Popescu, Dana Mihaela Suflet Irina Mihaela Pelin, M. I. Popa

- J. Macromol. Sci. Phys. Part B: Physics* (2012), [51\(3\)](#), 590-604
28. **Mechanical and tribological properties of poly(hydroxyethyl methacrylate) hydrogels for articular cartilage substitute**
L. Bostan , A.-M. Trunfio-Sfarghiu , L. Verestiuc , [M. I. Popa](#) , F. Munteanu
Tribology International, (2012), [46\(1\)](#), 215-224
 29. **Magnetic chitosan composite particles: evaluation of thorium and uranyl ion adsorption from aqueous solutions**
Gianina Dodi, Doina Hritcu, Doina Humelnicu, [M. I. Popa](#)
Carbohydrate Polymer, (2012), [87\(2\)](#), 1185-1191
 30. **Biotinylated chitosan-based SPIONs for blood-contacting applications**
Vera Bălan, Ivona Andreea Petrache, [M. I. Popa](#), Maria Butnaru, Eugen, Barbu, John Tsibouklis, Liliana Vereștiuc
Journal of Nanoparticle Research, (2012), [14\(2\)](#), 1-14
 31. **New hybrid materials based on layered double hydroxides and antioxidant compounds. Preparation, characterization and release kinetic studies**
Mihaela Silion, Doina Hritcu, Gabriela Lisa, [M. I. Popa](#)
J. Porous Mater. (2012), [19\(3\)](#) 267-276
 32. **Biomeric chitosan – calcium phosphate composites with potential applications as bone substitutes: Preparation and Characterization**
[Tanase C.E., Popa M.I., Verestiuc L.](#)
Journal of Biomedical Materials Research: Part B - Applied Biomaterials, (2012), [100\(3\)](#), 700–708
 33. **Functionalized magnetic composites based on block copolymers poly(succinimide)-b-poly(ethylene glycol) with potential applications in blood detoxification**
V. Balan, [M. I. Popa](#), L. Verestiuc, A.P. Chiriac, I. Neamtu, L.E. Nita, M.T.Nistor
Composites Part B.Engineering, (2012), [43\(3\)](#), 926–932
 34. **Electrochemical and SEM characterization of NiTi alloy coated with chitosan by PLD technique**
D. Mareci, N. Cimpoesu, [M. I. Popa](#)
Materials and Corrosion, (2012), [63](#), No. 9999 DOI: 10.1002/maco.201206501
 35. **In vitro and in vivo theophylline release from cellulose/chondroitin sulfate hydrogels**
Ana-Maria Oprea, Manuela-Tatiana Nistor, [Marcel Ionel Popa](#), Catalina Elena Lupusoru, Cornelia Vasile
Carbohydrate Polymers, (2012), [90\(1\)](#), 127–133
 36. **Core–shell magnetic chitosan particles functionalized by grafting: Synthesis and characterization**
Gianina Dodi, Doina Hritcu, Gabriela Lisa, [Marcel I. Popa](#)
Chemical Engineering Journal, (2012), [203](#), 130–141
 37. **Preparation and characterization of polyvinyl alcohol - chitosan biocompatible magnetic microparticles**
Laura Elena Udrea, Doina Hritcu, [M. I. Popa](#), O. Rotariu
Journal of Magnetism and Magnetic Materials. (2011), [323](#), 7-13
 38. **Protective effect of apitherapy products against carbon tetrachloride-induced hepatotoxicity in Wistar rats**
C. V. Andritoiu, Al. Prisăcaru, V. Andritoiu, [M. I. Popa](#)
European Journal of Internal Medicine, (2011), [22\(1\)](#), DOI:10.1016/S0953-6205(11)60020-4
 39. **Composite magnetic chitosan microspheres: In situ preparation and characterization**
Doina Hritcu, Gianina Dodi, Mihaela Silion, Niculina Popa, [M. I. Popa](#)
Polym. Bull. (2011), [67](#), 177-186
 40. **Biomimetic bone scaffolds based on chitosan and calcium phosphates**
C.E. Tanase, [M. I. Popa](#), L. Verestiuc
Materials Letters, (2011), [65\(11\)](#), 1681–1683
 41. **Maleic acid-2-vinylnaphthalene copolymer in aqueous solution: investigation of the dissociation and fluorescence quenching**
Irina Popescu, A. Airinei, Dana Mihaela Sufletel, [M. I. Popa](#)
J. Polym. Res. (2011) [18](#), 2195–2203
 42. **Heavy Metal Ions Adsorption on Chitosan-Magnetite Microspheres**
Doina Hritcu, Gianina Dodi, [Marcel Ionel Popa](#)
International Review of Chemical Engineering (I.RE.C.H.E.), (2011), Vol. 4, N.3, 364-368
 43. **Nanostructured chitosan-surfactant matrices as polyphenols nanocapsules template with zero order release kinetics**
Ana Gârlea, V. Melnig, [M. I. Popa](#)
J. Mater. Sci: Mater. Med. (2010), [21\(4\)](#), 1211–1223

44. **Hydrogels based on chitosan–xanthan for controlled release of theophylline**
Niculina Popa, O. Novac, Lenuta Profire, Catalina Elena Lupusoru, M. I. Popa
J. Mater. Sci: Mater. Med. (2010), 21(4), 1241–1248
45. **Inclusion and Release of Theophylline from Chitosan Based Microparticles**
Niculina Popa, O. Novac, Lenuta Profire, Doina Hritcu, M. I. Popa
Tur. J. Chem. (2010), 34(2), 255-262
46. **Syntheses and Characterization of New Organically Grafted Silica Foams**
Simona Ungureanu, Hervé Deleuze, Odile Babot, Marie F. Achard, Marcel I. Popa, Clément Sanchez, Rénal Backov
Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2010), 360, 85–93
47. **Macro- and nano-tribological characterisation of a new HEMA hydrogel for articular cartilage replacement**
L. Bostan, A.-M. Sfarghiu Trunfio, L. Verestiuc, M. I. Popa, F. Munteanu, Y. Berthier
Computer Methods in Biomechanics and Biomedical Engineering, (2010), Volume 13, Issue 4, 33–35
48. **Palladium nanoparticles heterogeneous nucleation within organically grafted silica foams and their use as catalyst supports toward the Suzuki–Miyaura and Mizoroki–Heck coupling reactions**
S. Ungureanu, H. Deleuze, O. Babot, M-F.Achard, C. Sanchez, M.I. Popa, R. Backov
Applied Catalysis A:General (2010), 390, 51-58
49. **In vitro and in vivo behavior of ketoprofen intercalated into layered double hydroxides**
Mihaela Sillion, Doina Hritcu, Irina M. Jaba, B. Tamb, Dunarea Ionescu, O. C. Mungiu, M.I. Popa
J Mater Sci: Mater Med, (2010), 21(11), 3009–3018
50. **Tannic acid incorporation in chitosan-based microparticles and in vitro controlled release**
Neculai Aelenei, Marcel Ionel Popa, Ovidiu Novac, Gabriela Lisa, Lacramioara Balaita
J. Mater Sci: Mater Med (2009), 20, 1095–1102
51. **Thermodynamic properties of (ethylbenzene + an alkane or + an alkyl ethanoate): experimental H_m^E and V_m^E values**
J. Ortega, A. Navas, G. Bolat, I. M. Popa
Physics and Chemistry of Liquids, (2009), 47(3)), 322 - 334
52. **Preparation and characterization of magnetic chitosan nanospheres**
Doina Hritcu, M. I. Popa, Niculina Popa, V. Badescu, Vera Balan
Turk, J. Chem, (2009), 33, 785-796
53. **Chitosan-Hydroxyapatite Composite Obtained by Biomimetic Method as New Bone Substitute**
Tanase, C.E., Popa, M.I., Verestiuc, L
Advanced Technologies for Enhanced Quality of Life, (2009). AT-EQUAL '09, 42-46
54. **Preparation and characterization of sodium alginate-chitosan microparticles for controlled release of ibuprofen in sustainable way**
Luminița Elena Balău, Nicolae Aelenei, Marcel Ionel Popa
Environmental Engineering and Management Journal, (2009), Vol.8, No.3, 559-567
55. **Thermogravimetric analysis of layered double hydroxides with chloramphenicol and salicylate in the interlayer space**
G. Lisa, M. I. Popa, N.D. Miron, D. I. Nistor
J. Thermal Analysis and Calorimetry, (2008), 93(2), 373-379
56. **Experimental results of H_m^E and V_m^E for binary mixtures (propylbenzene + an alkane or + an alkyl ethanoate)**
Ortega, J., Bolat, G., Marrero, E., Popa I.M.
Physics and Chemistry of Liquids, (2008), 46(4), 408-416
57. **Thermogravimetric characterization of chitosan/alginate microparticles loaded with different drugs**
M. I. Popa, G. Lisa, N. Aelenei
Polymer Bulletin, (2008), 61(4), 481-490
58. **First Pd@Organo–Si(HIPE) Open-Cell Hybrid Monoliths Generation Offering Cycling Heck Catalysis Reactions**
Simona Ungureanu, Hervé Deleuze, Clément Sanchez, Marcel I. Popa, Rénal Backov
Chem. Mater.,(2008), 20, 6464-6500
59. **Supramolecular Systems from Natural Polymers and Maleic Polyelectrolytes**
Irina Popescu, Marcel Ionel Popa, Gabrielle Charlotte Chitanu
Macromolecular Symposia, Volume (2008), 272 (1), 125–131

60. **One-Pot Synthesis of the First Series of Emulsion Based Hierarchical Hybrid Organic-Inorganic Open-Cell Monoliths Possessing Tunable Functionality (Organo-Si(HIPE))**
Simona Ungureanu, Marc Birot, Guillaume Laurent, Hervé Deleuze, Odile Babot, Beatriz Julian-López, Marie-France Achard, Marcel Ionel Popa, Clément Sanchez, Rénal Backov
Chem. Mater., (2007), **19** (23), 5786 -5796
61. **Diffusional system based on tolazoline hydrochloride included in a reticulated carboxymethylcellulose hydrogel**
M. Popa, N. Bajan, A. A. Popa, M. I. Popa
Polymer-Plastics Technology and Engineering, (2006), **45**(1), 9-21
62. **Interaction of chitosan with natural or synthetic anionic polyelectrolytes. The chitosan-carboxymethylcellulose complex**
Carmen Rosca, Marcel Ionel Popa, Gabriela Lisa, Gabrielle Charlotte Chitanu
Carbohydrate Polymes (2005), **62**, 35-41
63. **Physico-chemical properties of chitosan films**
L. Balau, G. Lisa, M. I. Popa, V. Tura, V. Melnig
CEJC (2004), **2**(4), 638-647
64. **An investigation on the formation of sterically stabilized PEG-PIBCA nanoparticles by chemical grafting of PEG during the polymerization of isobutylcyanoacrylate**
M. T. Peracchia, C. Vauthier, M. I. Popa, F. Puisieux, P. Couvreur
STP Pharma, (1997), **7**, 513-520
65. **Bioactive Polymers 68. Controlled release of neomycin - furazolidone bicomponent system from xanthan-hydrogel**
S. Dumitriu, M. I. Popa, M. Dumitriu, D. Dumitriu, A. Tara
J. Biomaterial Appli., (1993), **7**, 265-276
66. **Bioactive Polymers 70. The kinetics of controlled release of neomycin in an alkaline medium**
S. Dumitriu, N. Aelenei, M. I. Popa, M. Dumitriu
Il Farmaco, (1992), **47**(4), 509-518
67. **Kinetics of the condensation reaction of carboxylated polymers activated by dicyclohexylcarbodiimide**
M. Dumitriu, S. Dumitriu, M. I. Popa, C. Dumitriu
Acta polymerica, (1989), **4**, 233-235
68. **Bioactive Polymers LX. Kinetics of delayed release neomycin-xanthan complex**
C. Beldie, S. Dumitriu, N. Aelenei, M. Popa, M. I. Popa, D. Dumitriu
Biomaterials, (1989), **10**, 622-624
69. **Bioactive Polymers 61. Synthesis and characterization of some retard antibiotics**
S. Dumitriu, M. I. Popa, I. Hăulică, A. Crîngu, A. Stratone
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70. **Enzymes and drugs immobilized on polymers. Synthesis and application in therapeutics**
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- 43. Viscosimetric behaviour of water-acetic acid and toluene -acetic acid**
 Georgiana Bolat, Gabriela Lisa, M. I. Popa
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- 44. Turbidimetric study of the demixing phenomenon in liquid - liquid system polyurethane – dimethylformamide – water**
 Simona Ungureanu, Luminuta Balau, C. Ciobanu, M. I. Popa, M. O. Apostu, V. Melnig
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- 45. Prediction of controlled morphology study by turbidimetric titration of the demixing of liquid- liquid PU/DMF/H₂O system**
 Ungureanu Simona, Luminuta Balau, C. Ciobanu, M.I.Popa, M.O. Apostu, V. Meling
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- 46. Comportament thermique de quelques systemes polymere-principes bioactifs**

- G. Lisa, M. Irimia, C. Rosca, L. Balau, M. I. Popa
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47. **Chitosan/carboxymethylcellulose/ciprofloxacin a pH controlled delivery system**
 Delia Aelenei, M. I. Popa, N. Aelenei, Afrodita Marculescu, Gabriela Carja, Daniela Andrei
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48. **Dicarboxycellulose/streptomycin complex as a pH-sensitive device for controlled release of streptomycin**
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49. **Study of the mesoporosity characteristics of vanadium containing hydrotalcite-like material by using N₂ adsorption method**
 Gabriela Carja, M. I. Popa, Doina Sibiescu, Gabriela Apreutesei
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50. **Complexe polyionique a base de carboxymethylcellulose et chitosan pour liberation controlee de chlorompenhicol**
M. I. Popa, N. Aelenei, Marinela Irimia, Gabriela Carja
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52. **La liberation controlee des cephalosporines du complexe carboximethylcellulose-chitosan**
 N. Aelenei, M. I. Popa, Daniela Andrei, M. Popa
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53. **Catalytic behaviour of immobilized enzymes on natural polymers**
M. I. Popa, S. Dumitriu, G. Carja, N. Aelenei, Gh. Ionescu
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54. **Drug immobilized on polymers**
 M. Popa, M. I. Popa
Synthetic Polymer Journal, (1998), vol V, 215-226
55. **Numerical Approximation of the Reaction Rate**
 N. Aelenei, Gh. Ionescu, Ov. Roman, M. I. Popa
Bull. Poly. Insti. (1998), Tom XLIV (XLVIII), fasc. 3-4, 27-34
56. **On the compatibility of polystyrene with poly(ethylene-s vinyl) acetate copolymer**
 N. Aelenei, M. I. Popa, G. Paduraru
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57. **A method for solving the algebraic equation involved in the calculation of composition at equilibrium**
 N. Aelenei, Gh. Ionescu, M. I. Popa, O. Roman
Bull. Poly. Inst., (1996), XL(XLIV), Fas.3-4, 57-68
58. **High performance liquid chromatography of chloride in polymers**
M. I. Popa
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59. **Aplicarea cromatografiei de înaltă presiune la studiul polizaharidelor din plante**
M. I. Popa, V. I. Popa
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60. **Analysis of phenyl-glycidyl-ether by high-pressure liquid chromatography**
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61. **Study of the intrinsic properties of viscous flow in the 1,2-propandiolmethanol system**
 Gh. Ionescu, D. Hriscu, M. I. Popa
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62. **Modeling of process of atropine extraction from radix atropa belladonna**
 C. Oniscu, E. Horoba, M. I. Popa, C. Soldea, O. Năstase
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63. **Application of high-pressure liquid chromatography in the separation of pharmaceutical products**
M. I. Popa, D. Hriscu, Gh. Ionescu
Bull. Poly. Iași, (1989), XXXV(XXXIX), 27-33
64. **Aplicații ale cromatografiei lichid-lichid de înaltă presiune la studiul compoziției chimice a unor celuloze tehnice**

M. I. Popa, D. Gavrilesco

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65. **Contributions to the synthesis and polycondensation of 4 - nitro - 2 acetylbenzimidazole**
M. Dumitriu, M. I. Popa
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LISTA DE PROIECTE DE CERCETARE

1. **Adsorbant magnetic “verde” pentru tratarea apelor reziduale: mod de sinteza si utilizare**
PN-III-P2- 2.1-PED- 2016-0456, 2017-1019
2. **Noi materiale compozite pentru acoperiri superhidrofobe cu proprietati de neaderare a ghetii**
PN II-ID-PCE-2012-4-0433 2013-2016
3. **Obtinerea unor materiale adsorbante compozite magnetita-chitosan modificat pentru decontaminarea apelor reziduale**
Proiectul IDEI 660/2008
4. **Cercetari privind implementarea separarii magnetice in detoxificarea sangelui uman utilizand particule magnetice support”**
contract PNCD II nr. 81051/2/14.09.2007
5. **NOI SISTEME NANOSTRUCTURATE UTILIZATE PENTRU ELIBERAREA CONTROLATA A AGENTILOR FARMACOLOGICI**
Cod MEC: CEEX-M1-C2-1927, Nr. contract 980/09.10.2006 Program *Cercetare de Excelență*
Modul I– Proiecte de cercetare-dezvoltare complexe
6. **CERCETARI PRIVIND OBTINEREA DE NOI MATERIALE MICRO SI NANOSTRUCTURATE CU APLICATI BIOMEDICALE**
Grant CNCSIS, Cod 260, 77/GR Tema 30 /11.06.2008
7. **FP7, ASSET Road SC P7-GA-2008-217643 Integrat Project**
8. **Nanoparticule și nanosfere cu proprietăți selective**
Contract CNCSIS Cod 545, tema 63, 2006
9. **CERCETARI PRIVIND OBTINEREA DE NOI MATERIALE MICRO SI NANOSTRUCTURATE CU APLICATII BIOMEDICALE**
Grant CNCSIS, Cod 260, nr. 33/GR /23.05.2007
10. **Noi sisteme terapeutice, donoare de oxid nitric, cu eliberare controlata**
contract PNCD II nr. 41-017/2007
11. **CERCETARI PRIVIND OBTINEREA DE NOI MATERIALE MICRO SI NANOSTRUCTURATE CU APLICATII BIOMEDICALE**
Grant CNCSIS, Cod 260, nr. 33/GR /23.05.2007
12. **Noi nanocompozite multifunctionale pe baza de argile anionice mezoporoase cu aplicatii multidisciplinare**
Contract CEEX , Modulul I PC-D04-926/2006
13. **Noi nanostructuri mesoporoase de tip argile anionice substituite cu proprietati magnetice si aplicatii in biotehnologie**
Contract Academia Romana, nr. 39/2005
14. **Nanoparticule și nanosfere cu proprietăți selective (director de proiect)**
Contract CNCSIS Cod 545, 2005
15. **Nanoparticule și nanosfere cu proprietăți selective**
Contract CNCSIS Cod 545, tema 36 si tema 18, 2004
16. **Separator/filtru magnetic pentru particule superparamagnetice suport in ingineria proceselor biotehnologie si ecologice**
Contract CERES 2003-2005
17. **Noi nanocompozite multifunctionale pe baza de argile anionice mezoporoase cu aplicatii multidisciplinare**
Contract CEEX , Modulul I PC-D04-926/2005-2006
18. **Emulsii ferofluidice monodisperse – preparare si caracterizare**
Contract CERES 2004/4369/3.12.2004
19. **Noi nanocompozite multifunctionale pe baza de argile anionice mezoporoase cu aplicatii multidisciplinare**
Contract CEEX , Modulul I PC-D04-926/2005-2006
20. **Biomateriale cu eliberare controlată pentru uz veterinar**
Nr. 33479-2002, Tema 129 – Beneficiar CNCSIS

21. **Compozite din polizahari de și principii bioactive cuproprietăți selective pentru aplicații medicale**
Contract nr. 33479-2002, Tema 143 – Beneficiar CNCSIS
22. **Ultrasonic enzyne treatment of cellulosic fibres**
Contract MEN româno-flamand 2002
23. **Sisteme polimer-principiu activ cu aplicații biomedicale**
Contract nr. 379089/2000, tema nr 38, Beneficiar MEN- CNCSIS, cod CNCSIS: 921,
24. **Compozite polimerice cu matrice termoplastică și umplutură anorganică.**
Nr. contract 379089/2000, tema 15, Beneficiar CNCIS, cod CNCSIS: 877
25. **Aparat pentru determinarea maselor molare**
Contract nr. 379089/2000, tema nr 15, Beneficiar MEN- CNCSIS, cod CNCSIS: 924
26. **Polimeri biologic activi purtatori de medicamente si enzime**
Tema A6, program Orizont 2000
27. **Compozite polimerice cu matrice termoplastică și umplutură anorganică**
Nr. contract 39280-1999, tema 8 Grant 549 - Beneficiar CNCIS
28. **Studii privind eliberarea controlată a medicamentelor din sisteme polimerice**
Nr.5129-1998, Valoarea 8.000.000 lei - Beneficiar MCT
29. **Aparate și metode pentru obținerea de date termodinamice, cinetice și electrochimice**
Nr.contract: 4002/1995, 5002/1996 7002-1997 tema B34, Grant 668, tema A39, Grant 666, tema 70, Grant 745 - Beneficiar CNCSU
30. **Studiul cinetic al eliberării controlate a medicamentelor**
Nr.61-1997- Beneficiar MCT
31. **Termodinamica și cinetica produselor fiziologic active**
Nr. 1080-poz-B22-1993, Nr. 4002-poz-B25-1994, Nr. 3002-poz-A39-1995, Nr.5002-1996- Beneficiar CNCSU
32. **Studiu termodinamic și cinetic în vederea stabilirii unor mărimi fizico-chimice pentru sisteme practice necesare în proiectarea și optimizarea proceselor chimice**
Nr. 2410-1991 - Beneficiar M.I.S
33. **Studiu termodinamic și cinetic în vederea stabilirii unor mărimi fizico-chimice pentru sisteme practice necesare în proiectarea și optimizarea proceselor chimice**
Nr. 2410-1991, Nr. 3089-1992, Nr. 7463-1993, Nr. 3002 -1994 - Beneficiar M.I.S
34. **Tehnologii de obținere a celulozei prin procedee neconvenționale. Utilizarea micro-organismelor în procesul de dezincrustare a paielor și obținerea pastei mecanice din lemn**
Nr. 5293-1990- Beneficiar C.C.H.Brăila
35. **Cercetări microbiologice și biochimice asupra procesului de epurare a apelor uzate de C.F.S. Iași, pe principiul cu “nămol activ”**
Nr. 6248-1989- Beneficiar C.F.S. Iași
36. **Utilizarea glicidileterilor în sinteza PET-ului cu conținut redus de grupe carboxilice**
Nr. 2321-1988, Nr. 5774-1987 Beneficiar C.F.S. Iași
37. **Noi hidrogeluri sintetice și semisintetice cu utilizări în domeniul retardării medicamentelor și tratamentelor transdermice**
1986-1988 - Beneficiar I.P.Iași și Universitatea din Pisa-Italia
38. **Aplicarea cromatografiei lichid-lichid la analiza produselor intermediare și auxiliare de la producerea de fibre poliesterice**
Nr. 3150-1985, Nr. 5138-1986, Nr. 4778-1987, Nr. 3376-1988, Nr. 4499-1989, Beneficiar C.C.F.Ch.Săvinești, filiala Iași
39. **Studiul unor sisteme de solvenți din industria de antibiotice în vederea recuperării lor**
Nr. 2779-1981, Nr. 154-1982, Nr. 4100-1983, Nr. 2710-1984, Nr. 3149-1985, Nr. 3497-1987, Beneficiar I.C.C.F.București, filiala Iași
40. **Cercetări privind tehnologia de tăbăcire și retanare cu reducerea ofertei de crom**
Nr. 14688-1985, Beneficiar I.P.M. Tg. Mureș
41. **Cercetări privind noi tehnologii de prelucrare a pieilor cu materiale auxiliare care au la bază materii prime indigene**
Nr. 16558-1984, Beneficiar I.P.M. Tg. Mureș
42. **Îmbunătățirea calității firelor poliesterice prin utilizarea inhibitorilor de grupe carboxilice**
Nr. 14734-1984, Beneficiar C.F.S. Vaslui
43. **Monomeri de chelatizare polimerizabili cu acrilonitrilul**
Nr. 3956-1983, Beneficiar C.C.F. Săvinești
44. **Caracterizarea termodinamică a unor reacții dintre aldehida formică și aldehida butirică**
Nr. 17182-1981, Beneficiar Centrul de cercetări Rm-Vâlcea

- 45. Studiul unor sisteme de solvenți din industria de antibiotice în vederea recuperării solvenților**
Nr. 2779-1981, Beneficiar I.C.C.F.București, filiala Iași
- 46. Studiul privind perfecționarea unui proces catalytic în strat fix pentru valorificarea rășinilor alchil-benzenice**
Nr. S48-1981, Beneficiar Combinatul Petrochimic Borzești
- 47. Valorificarea deșeurilor de mase plastic prin ardere sau chimizare**
Nr. 9358-1980, Beneficiar Combinatul Petrochimic Borzești
- 48. Valorificarea deșeurilor de mase plastice prin ardere sau chimizare: elaborarea și perfecționarea unui procedeu catalitic în strat fix pentru valorificarea rășinilor alchil - benzenice**
Nr.S139-1979, Beneficiar Combinatul Petrochimic Borzești
- 49. Studiul privind organizarea producției la recuperarea dimetilanilinei solvent de import în prezent deșeu de fabricație, în vederea introducerii sale în circuitul economic**
Nr. 79-1979, Beneficiar Intreprinderea de Antibiotice Iași

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Popa Ionel Marcel**
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E-mail mipopa@ch.tuiasi.ro, impopa@yahoo.fr
Nationality Romanian
Date of birth 02.05.1950
Gender Male

Desired employment / Occupational field

Professor Ph. D

Work experience

- | | |
|-----------------------------|---|
| Dates | • Since 1998 |
| Occupation or position held | • Professor of Physical Chemistry Faculty of Chemical Engineering and Environmental Protection, Tec University Iasi |
| Dates | • From October 1992 to September 1998 |
| Occupation or position held | • Associate professor in Physical Chemistry Technical University of Iasi |
| Dates | • From October 1986 to September 1992 |
| Occupation or position held | • Lecturer in Physical Chemistry Technical University of Iasi |
| Dates | • From April 1979 to September 1986 |
| Occupation or position held | • Assistant in Physical Chemistry Technical University of Iasi |
| Dates | • From August 1975 to April 1979 |
| | • Engineer at Synthetic Fiber Plant Iasi |

Main activities and responsibilities

Courses:

- Thermodynamics and Kinetical Chemistry,
- Thermodynamics and Kinetical Chemistry and Biochemistry,
- Electrochemistry and Corrosion
- Physical-Chemistry of Polydisperse Systems
- Supervision of doctoral candidates in the field of Chemistry (PhD's): **23**

Publications

- in journals: **266**
- Patents: **3**
- Book contributions: **18**
- Published abstracts: **330**
- Presentations at scientific meetings (oral/poster): **393**

Research contracts:

- Project manger: **22**
- Partner research: **45**

Name and address of employer

Gheorghe Asachi Technical University of Iasi Faculty of Chemical Engineering and Environmental Protection Department of Chemical Engineering , 73 *Prof.dr.docent Dimitrie Mangeron* Street, 700050, IASI, ROMANIA

Education and training

Dates From October 1970 to June 1975 Graduate of the Technical University of Iasi with B.Sc. (hons, 1. Class) in Chemistry and Technology of Polymers

Title of qualification awarded Eng

Dates 1979-1986

Title of qualification awarded Ph.D. in Polymer Chemistry

Dates From September 1993 to June 1994 Post doctoral research fellow at the Faculty of Pharmacy Chatenay Malabry (prof. Patrick Couvreur) Paris (France)

Principal subjects/occupational skills covered

- The physical-chemical characterization of natural and synthetically polymers used in medicine;
- Thermodynamic and kinetically studies of some polymer-active substance systems;
- The physical-chemical characterization of natural and synthetically polyelectrolytes
- Synthesis and characterization of micro and nano particles containing natural polymers with applications in controlled release drug formulations.
- Hybrid particles polymer – magnetite with applications in drug delivery or liquid phase purification.
- Layered double hydroxide hybrid materials intercalated with bioactive components.
- Kinetically study of the release of bioactive components from nano-structured matrixes.
- Design and produce polymeric surfaces with ion exchange or biocompatible properties.
- Polymeric surface functionalization.

Name and type of organisation providing education and training

"Gh.Asachi" Polytechnic Institute, Iasi, Romania

Level in national or international classification

(remove if not relevant, see instructions)

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

French

English

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2	C2	B1	C1	C1	
A2	B1	B1	A1	B2	

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

- good ability to adapt to multicultural environments, gained though my work experience abroad

Organisational skills and competences

- The Society of Catalysis from Romania, since 1999;
- The Society of Chemical Engineering from Romania, since 2001;
- The Society of Chemistry from Romania, since 2002
- The Society of European Biomaterials, since 2005

Technical skills and competences

- Synthesis and characterization of micro and nano particles containing natural polymers with applications in controlled release drug formulations.
- Hybrid particles polymer – magnetite with applications in drug delivery or liquid phase purification.
- Layered double hydroxide hybrid materials intercalated with bioactive components.
- Kinetic study of the release of bioactive components from nano structured matrixes.
- Design and produce polymeric surfaces with ion exchange or biocompatible properties.
- Polymeric surface functionalization.

Computer skills and competences

- good command of Microsoft Office (Word, Excel and PowerPoint);

Other skills and competences

Training courses: International School of Advanced Studies in Polymer Science, Ferrara (Italy, 1992

Driving licence

Category B

Additional information

Include here any other information that may be relevant, for example contact persons, references, etc. (Remove heading if not relevant, see instructions)

Annexes

April 2023

Prof. univ. em. dr.ing. Ionel Marcel Popa