



[Setting up an X-ray diffraction experiment in the Division of Food Sciences,
University of Nottingham, UK](#)

CURRICULUM VITAE

1. **Prenume:** Irina Elena
2. **Nume:** Răschip (Cojocaru)
3. **Data și locul nașterii:** 12.03.1978, Iași
4. **Cetățenie:** Română
5. **Stare civilă:** căsătorită
6. **Studii:**

Instituția	Universitatea „Al. I. Cuza”	Universitatea Tehnică „Gh. Asachi”	Institutul de Chimie Macromoleculară „P. Poni”
Perioada: de la (luna, anul) până la (luna, anul)	Oct. 1996 – Iul. 2000	Oct. 2001 – Iul. 2002	Nov. 2001 – Nov. 2009
Grade sau diplome obținute	Diploma de chimist	Diploma de master, specializarea Biomateriale Polimere	Diploma de doctor

7. **Titlul științific:** Doctor

8. **Experiența profesională:**

Perioada: de la (luna, anul) până la (luna, anul)	Iul. 2001 – Iul. 2004	Iul. 2004 – Iun.2010	Iun.2010 – Dec.2019
Locul:	Iași	Iași	Iași
Instituția:	Institutul de Chimie Macromoleculară „P. Poni”	Institutul de Chimie Macromoleculară „P. Poni”	Institutul de Chimie Macromoleculară „P. Poni”

Funcția:	Asistent de cercetare stagiar	Asistent de cercetare	Cercetător științific
Descriere:	Studii viscozimetrice și de reologie asupra unor complecși interpolimerici	Caracterizarea biocompatibilității polimerilor naturali cu cei sintetici	polizaharide în industria alimentară ambalaje active, prietenoase mediului, pe baza de criogeluri de xantan cu proprietati antioxidante si antimicrobiene

9. Locul de muncă actual/funcția: Institutul de Chimie Macromoleculară „P. Poni”/ Cercetător Științific

10. Vechime la locul de muncă actual: 9 ani

11. Brevete de invenții: 2

1. OSIM nr. A/00213/08.05.2007 - **I. E. Răschip**, D. Ciolacu, C. Vasile, G. Cazacu, PROCEDU ȘI COMPOZIȚIE PENTRU OBTINEREA DE NOI HIDROGELURI, (Bronze medal)
2. OSIM nr. 129066/19.08.2014 - **I. E. Răschip**, C. Vasile, PROCESS FOR PREPARING NOVEL SUPERABSORBING HYDROGELS BASED ON XANTHAN AND LIGNIN FROM ANNUAL PLANTS, WITH APPLICABILITY IN MEDICINE AND FOOD INDUSTRY, Patent Number: RO129066-A2/2014 (Gold and silver medal)

12. Lucrări publicate: 15

1. S. Ioan, **I. E. Cojocaru**, V. C. Grigoraș, D. Macocinschi, D. Filip, Conformational aspects of segmented poly(ester-urethane), *Macromolecular Symposia*, 202, 179-188, 2003.
2. C. Vasile, G.G.Bumbu, Y. Mylonas, **I. Cojocaru**, G. Staikos, Hydrogen-bonding interaction of an alternating maleic acid-vinyl acetate copolymer with poly(ethylene glycol), polyacrylamide and poly(N-isopropylacrylamide): a comparative study, *Polymer International*, 52, 1887-1891, 2003.
3. S. Ioan, **I. Cojocaru**, D. Macocinschi, D. Filip, Viscometric Study of Poly (ester urethane) Solutions: Influence of Chemical Structure on the Conformational Transition, *High Performance Polymers*, 16, 123-135, 2004.
4. **I. E. Răschip**, C. Vasile, Interpolymeric complexes with applications in medicine, pharmacy and cosmetics, *Society of Cosmetic Chemists Magazine*, 5, 43-67, 2005.

5. **I. E. Răschip**, C. Vasile, D. Ciolacu, G. Cazacu, Semiinterpenetrating polymer networks containing polysaccharides. I. Xanthan/ lignin networks, *High Performance Polymers*, 19, 603-620, 2007.
6. **I. E. Răschip**, I. Yakimets, C. P. Martin, S. S. Paes, C. Vasile, J. R. Mitchell, Effect of water content on the thermomechanical properties of xanthan powder: a comparison between standard and novel techniques, *Powder Technology*, 182, 436–443, 2008.
7. C. M. Popescu, C. M. Tibirna, **I. E. Răschip**, M. C. Popescu, P. Ander, C. Vasile, Bulk and surface characterization of unbleached and bleached softwood kraft pulp fibres, *Cell. Chem. Technol.*, 42, 525-547, 2008.
8. **I. E. Răschip**, C. Vasile, D. Macocinschi, Compatibility and biocompatibility study on new HPC-PU blends, *Polymer International*, 58, 4 – 16, 2009.
9. **I. E. Răschip**, L. Moldovan, L. Ștefan, A. Oancea, C. Vasile, Compatibility and cytotoxicity testing of some new biomaterials based on polyurethane and hydroxypropylcellulose blends, *OAM-RC*, 3, 1336-1342, 2009.
10. **I. E. Răschip**, C. Vasile, New Products containing polysaccharide derivatives with cosmetic, pharmaceutical and biomaterial applications, *Romanian Society of Cosmetic Chemists Magazine*, 9, 10-20, 2009.
11. **I. E. Răschip**, E. G. Hitruc, C. Vasile, Semiinterpenetrating Polymer Networks Containing Polysaccharides. II. Xanthan/Lignin Networks: A Spectral and Thermal Characterization, *High Performance Polymers*, 23, 219-229, 2011.
12. **I. E. Răschip**, E. G. Hitruc, A. M. Oprea, M.-C. Popescu, C. Vasile, In vitro evaluation of the mixed xanthan/lignin hydrogels as vanillin carriers, *Journal of Molecular Structure*, 1003, 67-74, 2011.
13. **I. E. Raschip**, E. G. Hitruc, C. Vasile, Effect of the lignin type on the morphology and thermal properties of the xanthan/lignin hydrogels; *International Journal of Biological Macromolecules*, 54, 230-237, 2013.
14. P. Tyagi, **I. E. Raschip**, A. Deratani, D. Quemener, Reversible 2D/3D Coatings from Zipper-Assembly of Block Copolymer Micelles, *Advanced Materials*, 25, 3739–3744, 2013.
15. **I. E. Răschip**, A. D. Panainte, D. Pamfil, L. Profire, C. Vasile, The in vitro testing of xanthan/lignin hydrogels as carriers for controlled delivery of bisoprolol fumarate, *Rev. Med. Chir. Soc. Med. Nat.*, 119, 1189-1194, 2015.

13. Capitole in cărți: 6

1. **I. E. Răschip**, R. P. Dumitriu, V. C. Grigoraș, G. Cazacu, C. Vasile, “*On the Compatibility of the Hydroxypropylcellulose/Epoxy Modified Lignin Blends*” in *New Trends in Natural and Synthetic Polymer Science*, Ed: C. Vasile & G. Zaikov, pp.69-90, 2006.
2. **I. E. Răschip**, C. Vasile, “*Xanthan*” in *Degradable and Biocompatible Polymers*, Ed. C. Vasile, A. P. Chiriac, L. E. Niță, Tehnopress Iași, pp. 238-255, 2006.
3. R. P. Dumitriu, A. M. Oprea, **I. E. Răschip**, C. Vasile: *Degradable Interpenetrated Polymeric Networks/Hydrogels Chapter 7, Part 3 in Environmentally Degradable Materials Based on Multicomponent Polymeric Systems*, C. Vasile, G. E. Zaikov Eds., Brill Academic, pp. 250-335, 2009.
4. A. M. Oprea, R. P. Dumitriu, **I. E. Răschip**, C. Vasile: *Applications of the degradable interpenetrating polymeric networks and hydrogels in controlled drug delivery, Chapter 8, Part 3 in Environmentally Degradable Materials Based on Multicomponent Polymeric Systems*, C. Vasile and G.E. Zaikov Eds., Brill Academic, pp. 336-382, 2009.
5. **I. E. Răschip**, Xantan în acoperiri sau filme pentru ambalarea alimentelor, în *Noi ambalaje polimerice pentru alimente*, Eds. C. Vasile, C.N. Cheaburu, Ed. Pim, pp. 131-149, 2010.
6. C. Vasile, G. Cazacu, R. P. Dumitriu, R. N. Darie, **I. E. Răschip**, *Some Aspects Concerning the Nanomaterials from Renewable Resources Use in Food Packaging*, in *Ecosustainable Polymer Nanomaterials for Food Packaging: Innovative Solutions, Characterization Needs, Safety and Environmental Issues*, Editor(s):C. Silvestre; S. Cimmino, CRC Press, pp. 169 – 193, 2013.

14. Lucrări publicate în extenso în volume de manifestări științifice: 8

1. **I. E. Cojocaru**, S. Ioan, V. C. Grigoraș, D. Macocinschi, D. Filip, *Conformational transitions of segmented poly(ester-urethanes) in solid state and solution*, *Proceedings of International Conference on Materials Science and Engineering, Bramat 2003, Brașov, 13-14 March 2003, Volume IV*, pg. 171-176.
2. S. Ioan, **I. E. Cojocaru**, D. Macocinschi, D. Filip, *Light scattering data of poly(ester urethane)s in dilute solutions*, *Proceedings of International Conference on Materials Science and Engineering, Bramat 2003, Brașov, 13-14 march 2003, Volume IV*, pg. 298-303.

3. **I. E. Răschip**, C. Vasile, *Thermal and morphological study of hydroxypropyl cellulose (HPC)/epoxy modified lignin (LER) blends*, Proceedings of International Conference on Materials Science and Engineering, Bramat 2005, Braşov, 24-26 February 2005, Vol. IV, paper in program, publication CD P6C22.pdf.
4. **I. E. Răschip**, R. P. Dumitriu, G. Cazacu, C. Vasile, *The compatibility of the blends epoxy modified lignin/hydroxypropyl cellulose*, Proceedings, The 7th ILI Forum – Barcelona, 27-28 April, 2005 – Bringing lignin back to the headlines priority research and new approaches, Domain 3, pg. 167-170.
5. **I. E. Răschip**, I. Farhat, J. R. Mitchell, C. Vasile, *Study of the effect of relative humidity on some properties of the xanthan*, Book of Proceedings, EUROGREENPOL, First European Summer School on Green Chemistry of Polymers, Iaşi, 21-27 August, 2005, pg. 118-123.
6. O. N. Ciocoiu, M. C. Popescu, **I. E. Răschip**, R. P. Dumitriu, B. S. Munteanu, C. Vasile, *Study of the hydrogel synthesis reactions by UV Spectroscopy*, Proceedings of the 5th International Conference on Global Research and Education, Inter-Academia 2006, I, pg. 229-237.
7. **I. E. Răschip**, D. Ciolacu, G. Cazacu, C. Vasile, *New xanthan-lignin networks*, INVENTICA 2008, 14-24 mai 2008, pg. 481-487.
8. C. E. Luchian, V. V. Cotea, L. Vlase, A. M. Toiu, L. C. Colibaba, **I. E. Răschip**, G. Nadăş, A. M. Gheldiu, C. Tuchiluş, L. Rotaru, *Antioxidant and antimicrobial effects of grape pomace extracts*, Web of Conferences, 42nd OIV Congress, Switzerland 2019, <https://doi.org/10.1051/bioconf/20191504006>.

15. Comunicări la manifestări științifice naționale: 7

1. S. Ioan, **I. Cojocaru**, D. Macochinschi, D. Filip, *Copolimeri poliuretani în soluție diluată. Studii viscozimetrice*, ZAI, Iaşi, 3-6 Octombrie 2001.
2. **I. E. Cojocaru**, S. Ioan, C. Grigoraş, D. Macocinschi, D. Filip, *Thermo-optical and calorimetric analysis of the segmented poly (ester-urethanes)*, The XIth, Annual Symposium of Scientific Communications – Romanian Academy, Chemical Science, Thermal and calorimetric analysis, Bucharest, 14-15 February 2002.

3. **I. Cojocaru**, S. Ioan, D. Macochinschi, D. Filip, Erori ce influențează studiile viscozimetrice și de difuzie a luminii ale poli(esteri-uretanilor) în solvenți polari, AXXVII Conferință Națională de Chimie Călimănești-Căciulata, 23-25 Octombrie 2002.
4. **I. E. Răschip**, D. Pamfil, C. Vasile, *The in vitro testing of xanthan/lignin hydrogels as carriers for controlled delivery of bisoprolol fumarate*, ZILELE Universității "Alexandru Ioan Cuza" din Iași, Conferința Facultății de Chimie, Noiembrie 2014.
5. **I. E. Raschip**, N. Fifere, Xanthan based biomaterials using the freeze-thawing method, Al 13 lea Simpozion International de Produse Cosmetice si Aromatizante, "COSMETOLOGIA – ESENTA DE FRUMOS SI SĂNĂTATE", Iasi, 4 – 7 Iunie, 2019.
6. M. V. Dinu, A. C. Aprotosoai, M. M. Lazar, I. A. Dinu, **I. E. Raschip**, Noi filme de tip criogel pe baza de chitosan si dextrina impregnate cu ulei esential de Thymus Vulgaris, Al 13 lea Simpozion International de Produse Cosmetice si Aromatizante, "COSMETOLOGIA – ESENTA DE FRUMOS SI SĂNĂTATE", Iasi, 4-7 Iunie, 2019.
7. D. Pamfil, N. Fifere, **I. E. Raschip**, M. V. Dinu, "Morphology and antimicrobial properties of xanthan/polyvinyl alcohol cryogels containing red grape pomace", Zilele Universității „Alexandru Ioan Cuza” din Iași, Faculty of Chemistry Conference IasiCHEM 2019, 3rd Edition, 31 Octombrie – 1 Noiembrie 2019.

16. Comunicări la manifestări științifice internaționale: 12

1. **I. E. Cojocaru**, S. Ioan, V. C. Grigoraș, D. Macocinschi, D. Filip, *Conformational transitions of segmented poly(ester-urethanes) in solid state and solution*, Proceedings of International Conference on Materials Science and Engineering, Bramat 2003, Brașov, 13-14 March 2003.
2. **I. E. Răschip**, C. Vasile, *Thermal and morphological study of hydroxypropyl cellulose (HPC)/epoxy modified lignin (LER) blends*, International Conference on Materials Science and Engineering, Bramat 2005, Brașov, 24-26 February 2005.
3. **I. E. Răschip**, M. C. Popescu, M. C. Tibirna, C. Vasile, Surface and bulk characterization of COST E54 samples (updated and expanded), COST Action E54, Graz, Austria, 10-11 April 2008.
4. C. Vasile, O. Paduraru, A.M. Oprea, **I. E. Raschip**, R.P. Dumitriu, Vanillin aroma release from various matrices, *COST Action FA0904 International Workshop "Processing technology*

and functional properties of polymer nanomaterials for food packaging”, Wroclaw, Poland, 11-12 September 2012.

5. **I. E. Raschip**, D. Quemener, Reversible 2D/3D coatings from a zipper-assembly of block-copolymer micelles, *STREAM Advisory Board Meeting*, Iasi, 28-30 November 2012.

6. **I. E. Raschip**, G. Pricope, C. Vasile, Xanthan/Lignin materials for food packaging applications; POLYMAR 2013, Nanocomposites for Food Packaging Applications (COST Action FA0904), Barcelona, Spain, 1-8 November 2013.

7. **I. E. Răschip**, M. C. Popescu, Structural evaluation of materials based on xanthan gum and lignin, COST Action FP1105: WoodCellNet workshop in San Sebastian, Spain, 2015.

8. **I. E. Raschip**, N. Fifere, M. V. Dinu, Novel xanthan-based cryogels with potential applications in food industry, ICPAM12: 12th International Conference on Physics of Advanced Materials, Heraklion, Greece, September 22-28, 2018.

9. **I. E. Raschip**, M. V. Dinu, N. Fifere, Optimizing the conditions for obtaining xanthan based biomaterials using the freeze-thawing method, BRAMAT: 11th International Conference on Materials Science&Engineering, Poiana Brasov, Romania, 13-16 Martie 2019.

10. C. E. Luchian, V. V. Cotea, L. Vlase, A. M. Toiu, L. C. Colibaba, **I. E. Răschip**, G. Nadas, A. M. Gheldiu, C. Tuchilus, L. Rotaru, Antioxidant and antimicrobial effects of grape pomace extracts, Web of Conferences, 42nd OIV Congress, Geneva, Switzerland, 15-19 Iulie, 2019.

11. **I. E. Raschip**, N. Fifere, D. Pamfil, Novel bioactive xanthan-based films with tuned architecture and swelling properties, The 6th EPNOE International Polysaccharide Conference, Aveiro, Portugal, 21st– 25th of October 2019.

12. M. V. Dinu, **I. E. Raschip**, N. Fifere, Synthesis and characterization of novel xanthan-based cryogels, World Agriculture Congress 4th World Research Journals Congress (WRJC-2018), 24-26 mai 2018, Timisoara, Romania.

17. Postere prezentate la manifestări naționale (în limbă străină): 1

1. **I. E. Cojocaru**, S. Ioan, D. Macocinschi, D. Filip, *Errors which influences the viscometric and light scattering studies of the poly (ester-urethanes) in polar solvents*, Proceedings of XXVII National Chemistry Conference, OLTCHIM 2002, Călimănești-Căciulata, Vâlcea, România, 23-25 October 2002, paper in program, p. 186.- lucrare in extenso

18. Postere prezentate la manifestări internaționale: 34

1. **I. E. Cojocaru**, S. Ioan, V. C. Grigoras, D. Macocinschi, D. Filip, *Conformational aspects of segmented poly(ester-urethanes)*, Second International Conference on Polymer Modification, Degradation and Stabilization, MODEST 2002, Budapest, Hungary, 30 June - 4 July 2002.

2. S. Ioan, **I. E. Cojocaru**, D. Macocinschi, D. Filip, *Light scattering data of poly(ester urethane)s in dilute solutions*, Proceedings of International Conference on Materials Science and Engineering, Bramat 2003, Brașov, 13-14 March 2003.

3. **I. E. Cojocaru**, G. Cazacu, R. P. Dumitriu, C. Vasile, *Thermal and Rheological Properties of HPC/Lignin Environmentally Degradable Blends*, The 1st International Conference of the Moldavian Chemical Society, 6-8 October, Chișinău, Moldova, symposium book p.13, 2003.

4. **I. E. Răschip**, D. Ciolacu, G. Cazacu, C. Vasile, *Viscometrical study of the cellulose/epoxy – modified lignin blends*, Workshop on Fundamental and Applied Research in Physics, “Al. I. Cuza” University, Iași, România, 30th of October, 2004.

5. **I. E. Răschip**, R. Dumitriu, G. Cazacu, C. Vasile, *The compatibility of the blends epoxy modified lignin / hydroxypropyl cellulose*, The Interantional Lignin Institute, 7th ILI Forum – Barcelona, 27 – 28 April, 2005.

6. **I. E. Răschip**, C. Vasile, *Thermal and morphological study of hydroxypropyl cellulose (HPC)/epoxy modified lignin (LER) blends*, International Conference on Materials Science and Engineering, Bramat 2005, Brașov, 24-26 February, 2005.

7. **I. E. Răschip**, C. Vasile, *Interpolymeric complexes with applications in medicine, pharmacy and cosmetics*, The 7th Romanian International Symposium on Cosmetic and Flavor Products (RISCFP) - “ROMANIAN COSMETIC INDUSTRY in the CONTEXT of EU ENLARGEMENT PROCESS”, Iași, 31 May -3 June, 2005.

8. **I. E. Răschip**, I. Farhat, J. R. Mitchell, C. Vasile, *Study of the effect of relative humidity on some properties of the xanthan*, First European Summer School on Green Chemistry of Polymers, Iași, 21-27 August, 2005.
9. D. Ciolacu, **I. E. Răschip**, G. Cazacu, C. Vasile, *New performant materials from lignin and/or its derivatives*, Summer School "Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns", "Al. I. Cuza" University of Iași, 2 - 14 July, 2006.
10. **I. E. Răschip**, D. Macocinschi, C. Vasile, *Degradable polyurethanes-HPC blends*, Summer School "Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns", "Al. I. Cuza" University of Iași, 2 - 14 July, 2006.
11. **I. E. Răschip**, C. Vasile, D. Ciolacu, G. Cazacu, *Semiinterpenetrating polymer networks containing polysaccharides. I. Xanthan/lignin networks*, Polycondensation 2006, Koc University, Istanbul, Turkey, 27-30 August, 2006.
12. O. N. Ciocoiu, M.C. Popescu, **I. E. Răschip**, R. P. Dumitriu, B. S. Munteanu, C. Vasile, *Hydrogel synthesis reactions study through UV spectroscopy*, 5th International Conference on Global Research and Education, Iași, 25-28 September 2006.
13. **I. E. Răschip**, I. Yakimets, C. Martin, C. Vasile, J. R. Mitchell, *Phase transition in polysaccharide systems at low water content*, Second EPNOE Workshop of PhD Students, Friedrich Schiller University of Jena, Germany, 2-4 April, 2007.
14. **I. E. Răschip**, D. Ciolacu, C. Vasile, G. Cazacu, *Procedeu și compoziție pentru obținerea de hidrogeluri*, ECOINVENT 2007, Iași, 30 mai-2 iunie 2007.
15. **I. E. Răschip**, C. Vasile, S. Paes, I. Yakimets, J. R. Mitchell, *Thermo-mechanical properties of the cellulose based materials*, European Polymer Congress, Portoroz, Slovenia, 2-6 July, 2007.
16. **I. E. Răschip**, I. Yakimets, C. P. Martin, C. Vasile, J. R. Mitchell, *Effect of water content on the thermomechanical properties of xanthan powder: a comparison between standard and novel techniques*, European Polymer Congress, Portoroz, Slovenia, 2-6 July, 2007.
17. A.-M. Oprea, R. Dumitriu, **I. E. Răschip**, C. Vasile, *Studii privind eliberarea unor principii active din matrici pe bază de N-izopropilacrilamida și filme din xantan/lignină*, Simpozionul Național de Biomateriale "Biomateriale și Aplicații Medico-Chirurgicale", Ediția a-VI-a, Cluj-Napoca, 18-20 Octombrie, 2007.

18. **I. E. Răschip**, I. Yakimets, C. P. Martin, C. Vasile, J. R. Mitchell, *Effect of water content on the thermomechanical properties of xanthan powder*, European Polysaccharide Network of Excellence, Scientific Meeting, Iași, 7-9 November 2007.
19. G. Cazacu, **I. E. Răschip**, D. Ciolacu, C. Vasile, *Characterization of the microcrystalline celluloses powders*", COST Action E41 "Analytical tools with applications for wood and pulping chemistry", Bled, Slovenia, 22-23 November 2007.
20. A.-M. Oprea, R. Dumitriu, **I. E. Răschip**, C. Vasile, *Comparative study on biodegradable polymeric matrices for controlled release of bioactive principles*, "International Conference of Biodegradable Polymers, Production, Characterization and Application", London, UK, 10 December 2007.
21. **I. E. Răschip**, C. Vasile, D. Macocinschi, *New biomaterials containing hydroxypropyl cellulose and polyurethane with possible medical applications*, "6th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology", Barcelona, Spain, 7-10 April 2008.
22. **I. E. Răschip**, C. Vasile, *Characterisation of the fine structure and properties of papermaking fibres using new technologies*, COST Action E54, Graz, Austria, 10-11 April 2008.
23. **I. E. Răschip**, E. G. Hitruc, A. M. Oprea, C. Vasile, *Characterization of xanthan/lignin films and their potential application in food industry*, The 11th International Chemistry Conference and Exhibition in Africa (11 ICCA), Luxor, Egypt, 20-23 November 2010.
24. **I. E. Răschip**, E. G. Hitruc, A. M. Oprea, C. M. Popescu, C. Vasile, *In Vitro evaluation of the mixed xanthan/lignin hydrogels as vanillin carriers*, 2nd International Polysaccharide Conference, "Polysaccharides as source of advanced and sustainable products", Wageningen, Netherland, 27 August - 2 Septembre 2011.
25. **I. E. Răschip**, C. M. Popescu, C. Vasile, *The importance of the crosslinking agent in obtaining new xanthan/lignin hydrogel formulations for food industry applications*, International Conference of Young Chemists, Amman, Iordania, 6-12 April 2012.
26. **I. E. Răschip**, C. Vasile, *Effect of lignin type on xanthan/lignin hydrogels properties and their applicability in food industry*, 14th International Conference on Organized Molecular Films ICOMF 14, Paris, France, 10 - 13 July 2012.

27. A. D. Panainte, D. Pamfil, **I. E. Răschip**, E. Parpariță, C. Vasile, Evaluarea *in vitro* a unor noi sisteme de eliberare controlată a bisoprololului fumarat, Congresul Național de Farmacie din România cu participare internațională, Iași, 24-27 Septembrie 2014.
28. **I. E. Răschip**, C. Vasile, Process for preparing novel superabsorbing hydrogels based on xanthan and lignin from annual plants, with applicability in medicine and food industry, The 7th Edition of EUROINVENT European Exhibition of Creativity and Innovation, Iași, 14-16 May 2015 (**medalia de argint**).
29. **I. E. Răschip**, C. Vasile, Process for preparing novel superabsorbing hydrogels based on xanthan and lignin from annual plants, with applicability in medicine and food industry, The XIX-th INTERNATIONAL EXHIBITION OF INVENTICS, RESEARCH AND TECHNOLOGICAL TRANSFER "INVENTICA 2015", Iași, 16 mai 2015 (**medalia de aur**).
30. **I. E. Raschip**, O. M. Mocanu (Păduraru), C. Vasile, Particular structures based on xanthan gum and lignin with application in food industry, International Workshop "Progress in antimicrobial materials", Iasi, Romania, March 30, 2017.
31. N. Fifere, I. E. Raschip, M. V. Dinu, C. E. Luchian, A. Popirda, Novel films based on xanthan/polyvinyl alcohol impregnated with antioxidant agents for food industry, BRAMAT: 11th International Conference on Materials Science&Engineering, Poiana Brasov, Romania, 13-16 Martie 2019.
32. A. Popirda, C. E. Luchian, I. Raschip, C. E. Scutarasu, L. Vlase, A. M. Toiu, L. C. Colibaba, V. V. Cotea, "THE INFLUENCE OF MACERATION-FERMENTATION TECHNIQUES ON THE CONTENT OF ANTIOXIDANT SUBSTANCES IN THREE EXPERIMENTAL WINES OBTAINED FROM FETEASCĂ NEAGRĂ", 18th International Conference "Life sciences for sustainable development", Cluj-Napoca, Romania, 26 – 28 Septembrie, 2019.
33. A. Ghilan, A. P. Chiriac, L. E. Nita, A. G. Rusu, I. E. Raschip, A. Popirda, "Novel hyaluronic acid based gels as potential drug delivery networks", Zilele Universității „Alexandru Ioan Cuza” din Iași, Faculty of Chemistry Conference IasiCHEM 2019, 3rd Edition, 31 Octombrie – 1 Noiembrie 2019.
34. M. M. Lazar, A. C. Aprotosoai, M. V. Dinu, I. E. Raschip, "Antioxidant and antimicrobial properties of chitosan-based cryogel films embedding Thymus Vulgaris essential oil", Zilele

Universității „Alexandru Ioan Cuza” din Iași, Faculty of Chemistry Conference IasiCHEM 2019, 3rd Edition, 31 Octombrie – 1 Noiembrie 2019.

19. Limbi străine cunoscute: engleza, franceza

20. Alte competențe: Abilități experimentale în Spectrometria UV, FTIR; difracție cu raze X, microscopia electronică de baleiaj (SEM) și microscopia de forță atomică (AFM); evaluarea determinarea proprietăților de umectare (măsurători de unghi de contact), viscozimetrie și reologie; teste de dizolvare și eliberare a principiilor active din diverse materiale.

Calculatoare: Windows; Excel; Word; Origin 7.5; Power Point; Paint.

21. Specializări și calificări:

Cursuri naționale și internaționale

- Postgraduate course “**Structure of organic substances and polymers: Theoretical aspects and investigation methods**”, June-November 2001, Romanian Academy, “Petru Poni” Institute of Macromolecular Chemistry, Iași, România.
- Postgraduate course “**Nanostructured polymeric materials**”, May-June 2006, Romanian Academy, “Petru Poni” Institute of Macromolecular Chemistry, Iași, România.
- **September 2003 – July 2004**, fellowship MARIE - CURRIE, at *Nottingham University, Food Science Division*, UK, Prof. Dr. J. R. Mitchell.
- Course: “**Fundamentals of hydrocolloid technology**”, North East Wales Institute of Higher Education (NEWI), Wrexham, UK, October 27-30, 2003.
- **September 2006 – March 2007**, European Polysaccharide Network of Excellence (EPNOE student), at *Nottingham University, Food Science Division*, UK, Prof. Dr. J. R. Mitchell.
- **Triton Technology User’s Meeting and Seminar**, 24-25 October 2006, Loughborough University, UK.
- A post-experience course of the BioUpdate Foundation and Royal Society of Chemistry Biotechnology Group – “**Understanding Polysaccharide Biotechnology**”, University of Nottingham, Sutton Bonington Campus, UK, 29-30 January 2007.
- Cours: "Tools in Polysaccharide Engineering", Wageningen, The Netherlands, 28-29 August 2011
- **September 2011 – December 2011, October 2012 and May 2013**, Institut Européen des Membranes – Montpellier, France (IEM – ENSCM / UMII / CNRS 5635), Prof. Ass.

Damien Quemener, stages in the frame of *Strengthening the Romanian Research Capacity in Multifunctional Polymeric Materials (STREAM)*.

22. Citări 138 (conform scopus Author ID: 22036188200-18.06.2018)

23. Indice hirsch 8 (conform scopus Author ID: 22036188200-18.06.2018); Research ID B-8767-2011.

24. Stagii în străinătate:

Septembrie 2003 – Iulie 2004, Bursă MARIE – CURRIE la Universitatea Nottingham, Food Science Division, UK, Prof. Dr. J. R. Mitchell.

Septembrie 2011 – Decembrie 2011, Stagiul de cercetare in cadrul proiectului „*Strengthening the Romanian Research Capacity in Multifunctional Polymeric Materials (STREAM)*” la Institut Européen des Membranes – Montpellier, France (IEM – ENSCM / UMII / CNRS 5635), Prof. Ass. Damien Quemener și Prof. Mihail Bărboiu;

Octombrie 2012 - Mai 2013, Stagiul de cercetare in cadrul proiectului „*Strengthening the Romanian Research Capacity in Multifunctional Polymeric Materials (STREAM)*” LA Institut Européen des Membranes – Montpellier, France (IEM – ENSCM / UMII / CNRS 5635), Prof. Ass. Damien Quemener.

25. Experiența acumulată în alte programe naționale/internaționale:

Programul/Proiectul	Funcția	Perioada: de la... până la...
Contract nr. 6182/2000 “Noi materiale performante, complexe, cu morfologii controlabile și cu proprietăți controlabile” – Grant CNCSIS Tema 16 Cod 20	membru	2000
Contract 495/2000; Act adit. 1/27.02.2001 Orizont 2000 “Perfecționarea tehnologiilor de depoluare și controlul poluării generate de deșeurii polimerice prin tratarea sau reducerea cantităților”	membru	2000
Contract 5052GR/99, Act adit., 1/2001, A3 “Polimeri cu morfologii speciale. Relație structură-proprietăți – noi	membru	2001

domenii de utilizare”		
Grant CERES nr. 69/2002, "Polimeri cu arhitecturi speciale. Sinteză, caracterizare, proprietăți, noi domenii de utilizare”	membru	2002
Contract CNCISIS Nr. 32952/2004, Tema 2, Cod 952, „O nouă clasă de materiale din resurse regenerabile”	membru	2004 - 2006
Lucrare de cercetare nr. 37/2004: „Reciclarea deșeurilor solide – Valorificarea lignocelulozelor rezultate ca produse secundare în industria de celuloză și hârtie”	membru	2004
Contract CEE X CALIST nr. 6114/2005 „Realizarea de biopolimeri matriceali naturali multifuncționali pentru biocompatibilizarea polimerilor sintetici destinați utilizării medicale”	membru	2005
Contract CEE X - MATNANTECH nr. C108/2006 " Noi sisteme nanostructurate utilizate pentru eliberarea controlata a agentilor farmacologici" (NANOCOFARM)	membru	2006
Contract CEE X nr. 3777/2005 "Materiale micro si nanostructurate pentru productii noi in constructii, siguranta agroalimentara si bioinginerie"	membru	2005 - 2008
Contract CEE X (VIASAN) 10/2005 – „Arhitecturi inovative degradabile, biocompatibile și bioactive pe bază de polimeri naturali și sintetici”	membru	2005 -2008
Contract PC (NOSITEC) Nr. 41-017/2007 „Noi sisteme	membru	2007

terapeutice donoare de oxid de azot cu eliberare controlată”		
European Polysaccharide Network of Excellence (EPNOE)	membru	2006 – 2007
Contract CNCSIS TD 549 10/2007 – „Studiul termodinamic al unor sisteme polimere cu structuri speciale (polizaharide/polimer sintetic)”	Director de proiect	2007 -2009
Contract CNCSIS PD 463/2010 – „Development of new ecological and biodegradable products for packaging used in food industry”	Director de proiect	2010-2012
COST ACTION FA0904 “Eco-sustainable food packaging based on polymer nanomaterials”	membru	2010 - 2013
Program Capacitati - Contract nr. 525/2012, UEFISCDI „Functionalization of synthetic polymers for development of new antimicrobial packaging (FPSNewPack)”, colaborare bilaterala Romania – Slovenia	membru in echipa romana	2012-2014
Program Capacities - Contract nr. 571/2012, UEFISCDI “Safe, Health-promoting, Green Food Packaging”, Colaborare bilaterala Romania - Grecia	membru in echipa romana	2012-2014
Contract CNCSIS TE 77/2018, „Innovative eco-friendly food active packaging based on xanthan cryogels with antibacterial and antioxidant properties”	Director de proiect	2018 - 2020
Contract CNCSIS TE 117/2018, „Proiectarea de biocompozite nepoluante cu proprietati chelatizante	membru	2018 - 2020

selective pentru indepartarea si recuperarea ionilor metalelor grele din apele contaminate”		
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26. Rezultate din alte activități:

1. COST ACTION FA0904: “Eco-sustainable food packaging based on polymer nanomaterials”, 28-29 June, 2010, Iasi, Romania;

2. COST ACTION FA0904: “Eco-sustainable food packaging based on polymer nanomaterials”, 21-23 November, 2012, Venice, Italy;

3. membru in comitetul de organizare a manifestarii stiintifice internationale: COST Action FP0904, 9-11 Aprilie 2013, Iasi, Romania

05.12.2019

Semnatura