



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Anamaria SDROBIȘ (cas. IRIMIA)**
Address(es)
Telephone(s) Mobile: +40752005119
E-mail anamaria.sdrobis@icmpp.ro
Nationality Romanian
Date of birth 23.12.1983
Gender female

Work experience

Dates Since 1 November 2011
Occupation or position held Research Assistant
Main activities and responsibilities Surface modification and characterisation of polymeric materials
Name and address of employer "Petru Poni" Institute of Macromolecular Chemistry Grigore Ghica Voda Alley, no. 41 A, 700487 Iasi, Romania
Type of business or sector Chemistry-Physics of Polymers Department

Education and training

Dates 2007-2009
Title of qualification awarded M. Sc.
Principal subjects/occupational skills covered Chemistry and biochemistry of heterocyclic compounds
Name and type of organisation providing education and training "Al.I.Cuza" University, Faculty of Chemistry
Dates 2003-2007
Title of qualification awarded B. Sc.
Principal subjects/occupational skills covered Chemistry-Physics
Name and type of organisation providing education and training "Al.I.Cuza" University, Faculty of Chemistry
Dates 2007-2012

Title of qualification awarded | Ph.D.
 Principal subjects/occupational skills covered | Characterisation of new polymeric systems responsive to external stimuli
 Name and type of organisation providing education and training | "Petru Poni" Institute of Macromolecular Chemistry Grigore Ghica Voda Alley, no. 41 A, 700487 Iasi, Romania

Personal skills and competences

Mother tongue(s) | **Romanian**

Other language(s)
 Self-assessment
European level ()*

English
Spanish

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

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

Social skills and competences | - Capacity to work alone and in a team
 - Adaptability to different situations
 - Communication skills

Technical skills and competences | Working experience with FTIR Spectrometer, optical microscope, oxygen permeability tester, contact angle measurements

Computer skills and competences | Competent with most Microsoft Office programs: Microsoft Word, Microsoft PowerPoint; Adobe; Origin; Specview, Paint, Internet Explorer

Driving licence

Signature _____

Publications list:

Book Chapters

1. G.Cazacu, **A.Sdrobis**, M.Pintilie, D.Rosu, D.Ciolacu, M.Totolin, C.Vasile, “*Swelling and electrokinetic properties of unbleached/bleached softwood kraft cellulose fibers*”, in P.Ander, W.Bauer, S.Heinemann, P.Kallio, R.Passas, A.Treimanis, Cost Action E54 „Fine Structure of Papermaking Fibers“, Belgium, **2011**.
2. **A. Irimia**, C. Vasile, ”Surface Functionalization of Cellulose Fibers”, in ”Cellulose and Cellulose Derivatives: Synthesis, Modification, Nanostructure and Applications”, Ibrahim H. Mondal Ed., Nova Science Publishers, Inc., New York, USA, Francis-Taylor 2015.

Articles:

1. M.C. Popescu, C.M. Tibirna, M. Totolin, **A. Sdrobiş**, C. Vasile, Grafting of Softwood Kraft Pulps Fibers with Fatty Acids under Cold Plasma Conditions, International Journal of Biological Macromolecules, 48, 326–335, 2011.
2. **A. Sdrobiş**, G. Cazacu, M. Totolin, C. Vasile, Alkaline solution swelling of fatty acids grafted softwood kraft pulps fibers under cold plasma conditions, Cellulose Chemistry and Technology, 45 (5-6), 329-338, 2011.
3. **A. Sdrobiş**, R.N. Darie, M. Totolin, G. Cazacu and C. Vasile, Low density polyethylene composites containing cellulose pulp fibers, Composites Part B: Engineering, 43, 1873–1880, 2012.
4. **A. Sdrobiş**, G.E. Ioanid, T. Stevanovic and C. Vasile, Modification of cellulose/ chitin mix fibers with N-isopropylacrylamide and poly (N-isopropylacrylamide) under cold plasma conditions, Polymer International, 61(12), 1767-1777, 2012.
5. **A. Sdrobiş**, H. Biederman, O. Kylian, C. Vasile, Grafting of cellulose/chitin mix fibers under different cold plasma conditions, Cellulose, 20:509–524, 2013.
6. B. S. Munteanu, E. Pâslaru, L. Fras Zemljic, **A. Sdrobiş**, G. M. Pricope, C. Vasile, Chitosan Coatings Applied to Polyethylene Surface to Obtain Food-Packaging Materials, Cellulose Chemistry and Technology, 48: 565-575, 2014.
7. R. N. Darie, E. Pâslaru, **A. Sdrobiş**, G. M. Pricope, G. E. Hitruc, A. Poiată, A. Baklavaridis, C. Vasile, Effect of Nanoclay Hydrophilicity on the Poly(lactic acid)/Clay Nanocomposites Properties, Industrial and Engineering Chemistry Research, 53: 7877–7890, 2014.
8. C. Vasile, R. N. Darie, **A. Sdrobiş**, E. Pâslaru, G. Pricope, A. Baklavaridis, S. B. Munteanu, I. Zuburtikudis, Effectiveness of Chitosan as Antimicrobial Agent in LDPE/CS Composite Films as Minced Poultry Meat Packaging Materials, Cellulose Chemistry and Technology, 48: 325-336, 2014.
9. **A. Sdrobiş**, G. E. Ioanid, C.-D. Varganici, C. Vasile, Dual Responsive Modified Cellulose/Chitin Mixed Fibers, Cellulose Chemistry and Technology, 49: 281-289, 2015.

10. **A. Irimia**, E. Csiszar, M. Dobromir, F. Doroftei, C. Vasile, Enzyme-assisted modification of cellulose/chitin fibers with NIPAAm, *Turkish Journal of Chemistry*, 39: 1089 – 1101, 2015.
11. **A. Irimia**, E. Csiszar, M. Dobromir, S. Pațachia, G.-M. Pricope, N. Damian, C. Vasile, Modified Cellulosic Materials with Antioxidant and Antimicrobial Properties for Pharmaceutical Applications, *Research and Reviews: Journal of Pharmacy and Pharmaceutical Sciences*, 4: 46-55, 2015.
12. R. N. Darie-Niță, C. Vasile, **A. Irimia**, R. Lipșa, M. Râpă, Evaluation of some eco-friendly plasticizers for PLA films processing, *Journal of Applied Polymer Science*, 133: 43223, 2016.
13. **A. Irimia**, E. Csiszar, A. Coroabă, C.-D. Varganici, C. Vasile, Mercerization Mediated Modification of Cellulosic Fibers with NIPAAm and Some Compounds with Antioxidant Activity, *Fibers and Polymers*, 17: 1569-1578, 2016.
14. E. Stoleru, B. S. Munteanu, R. N. Darie-Niță, G. M. Pricope, M. Lungu, **A. Irimia**, M. Râpă, R. D. Lipșa, C. Vasile, Complex Poly(lactic acid)-Based Biomaterial for Urinary Catheters. Part II. Biocompatibility, Bioinspired, Biomimetic and Nanobiomaterials, 5: 152-166, 2016.
15. **A. Irimia**, G. E. Ioanid, T. Zaharescu, A. Coroabă, F. Doroftei, A. Safrany, C. Vasile, Comparative study on gamma irradiation and cold plasma pretreatment for a cellulosic substrate modification with phenolic compounds, *Radiation Physics and Chemistry*, 130: 52–61, 2017.
16. C. Vasile, M. Sivertsvik, A. C. Miteluț, M. A. Brebu, E. Stoleru, J. T. Rosnes, E. E. Tănase, W. Khan, D. Pamfil, C. P. Cornea, **A. Irimia**, M. E. Popa, Comparative Analysis of the Composition and Active Property Evaluation of Certain Essential Oils to Assess their Potential Applications in Active Food Packaging, *Materials*, 10, 45, 2017.
17. M. Râpă, R. N. Darie – Niță, **A. Irimia**, M. Sivertsvik, J. T. Rosnes, A. R. Trifoi, C. Vasile, E. E. Tănase, T. Gherman, M. E. Popa, A. C. Miteluț, Comparative Analysis of Two Bioplasticizers Used to Modulate the Properties of PLA Biocomposites, *Materiale Plastice*, 54, 4, 2017.

In extenso publications

1. M. Totolin, A. Sdrobiș, M.C. Popescu, C.M. Tibirna, T. Stevanovic, C. Vasile – „Cold Plasma Grafting Of The Unbleached And Bleached Softwood Kraft Pulp Fibres.II. Surface Characterization”, 6-th Intern. Conf. Textile Polym. Technol., Ghent, Belgium, 23-25 Sept. 2009.
2. R.N. Darie, A. Sdrobiș, M.Totolin, G. Cazacu, C.Vasile “Polyethylene/softwood kraft pulp fibers composites”, *Dynamics of Complex Fluids, Proceedings*, Iași, 5-7 Mai 2011; pg 97 – 102
3. C. Vasile, E. Pâslaru, A. Sdrobiș, G. Pricope, G.E. Ioanid, R.N. Darie, “Plasma assisted functionalization of synthetic and natural polymers to obtain new bioactive food packaging materials”, Report of the first RCM on Application of Radiation Technology in Development of Advanced Packaging Materials for Food Products, Vienna, Austria, 22 - 26 April 2013

Conference Presentations:

1. C. Vasile, E. Pâslaru, A. Sdrobiș, G. Pricope, G.E. Ioanid, R.N. Darie, “Plasma assisted functionalization of synthetic and natural polymers to obtain new bioactive food packaging materials”, Report of the first RCM on Application of Radiation Technology in Development of Advanced Packaging Materials for Food Products, Vienna, Austria, 22 - 26 April 2013.
2. Plasma or Gamma assisted active (nano)coatings deposition onto polymeric surfaces to obtain multifunctional materials for food packaging; C. Vasile, E. Stoleru, A. Irimia, B. S. Munteanu, R. P. Dumitriu, T. Zaharescu, G. E Ioanid, D. Pamfil; Technical Meeting on the Use of Radiation Technology in the Development of Active Packaging Materials; Budapest, Hungary, 20-24 May, 2019.

Oral communications:

1. M. Totolin, **A. Sdrobiș**, M.C. Tibarna, M.C. Popescu, C. Vasile – “Dependence of the Physical Activation / Modification of Unbleached and Bleached Kraft Pulp Fibers on their Morphology”, COST Action E54 “Characterisation of the Fine Structure and Properties of Papermaking Fibres using New Technologies” MC and WG meetings and Workshop in Tampere, Finlanda, 4-6 May 2009.
2. C. Vasile, R.N. Darie, **A. Sdrobiș**, M. Totolin, G. Cazacu – “Polyolefins biofibre composites containing unmodified and grafted unbleached, bleached and refined softwood kraft fibres”, Cambridge, 22-24 March, 2011.
3. **A. Sdrobiș**, G.E. Ioanid, O. Kylian, H. Biederman, C.M. Țibirnă, C. Vasile – “Cold plasma grafting of cellulose/chitin mix fibers”, The Xth Romanian International Symposium on Cosmetic and Flavor Products, Iasi, 31 Mai – 3 Iunie 2011
4. **A. Sdrobiș**, G.E. Ioanid, C. Vasile – “Stimuli responsive fibers obtained by cold plasma treatment”, The Xth Romanian International Symposium on Cosmetic and Flavor Products, Iasi, 31 Mai – 3 Iunie 2011
5. R.N. Darie, **A. Sdrobiș**, M. Totolin, G. Cazacu, C. Vasile – “Biocomposites of LDPE/pulp fibers”, The 2nd EPNOE Conference "Polysaccharides as Source of Advanced and Sustainable Materials“, Wageningen, Olanda, 29 august – 2 septembrie 2011
6. **A. Sdrobiș**, G.E. Ioanid, H. Biederman, E. Csiszar, S. Pațachia, C. Vasile – “Unele aspecte ale preparării și caracterizării “textilelor inteligente””, Zilele Academice Iașene, Progrese în știința compușilor organici și macromoleculari, Iași, 29 Septembrie – 1 Octombrie 2011
7. **A. Sdrobiș**, G.E. Ioanid, H. Biederman, E. Csiszar and C. Vasile – “Smart and antimicrobial cellulosic fibers”, Fifth Cristofor I. Simionescu Symposium “Frontiers in Macromolecular and Supramolecular Science”, Bucharest, Romania, June 11-13, 2012

8. **A. Sdrobiș**, L. Hanykova, H. Biederman and C. Vasile “Cold plasma discharge used for cellulose modification to impart special properties”, International Workshop, Action COST FA0904, Prague, Czech Republic, February 7-8, 2013
9. **A. Sdrobiș**, E. Csiszar, C. Vasile “Antioxidant cosmeto textile”, Al XI-lea Simpozion Internațional de Produse Cosmetice și Aromatizante, Iași – Romania, 4 – 7 Iunie 2013
10. R.N. Darie, **A. Sdrobiș**, G. Pricope, A. Baklavaridis, C. Panayiotou, I. Zuburtikudis, L. Fras, D. Pamfil, C. Vasile “Polyethylene/ chitosan-Na⁺-MMT nanocomposites”, 10th International Conference on Nanosciences & Nanotechnologies (NN13), Thessaloniki, Greece, 9-12 July 2013
11. **A. Sdrobiș**, E. Csiszar, M. Dobromir, F. Doroftei, C. Vasile “Activarea cu enzime pentru obținerea de materiale textile inteligente”, Zilele Academice Ieșene, A XXIV-a sesiune de comunicări științifice “Progrese în stiinta compusilor organici si macromoleculari”, Iași, Romania, 3 - 5 octombrie 2013
12. E. Pâslaru, S.B. Munteanu, **A. Sdrobiș**, E.G. Ioanid, A. Coroaba, C. Vasile, Procedures for surface modification of polymers, POLYMAR Conference, Barcelona, Spain, 3-7 November 2013
13. **Anamaria Irimia**, Emilia Csiszar, Ghiocel Emil Ioanid, Traian Zaharescu, Cornelia Vasile, “Fibre celulozice cu proprietati antimicrobiene si antioxidante”, Congresul Internațional din Cadrul Zilelor Universității „Apollonia”, 26 februarie - 1 martie 2015, Iași, România
14. **Anamaria Irimia**, Ghiocel Emil Ioanid, Florica Doroftei, Cornelia Vasile, “Cold plasma assisted modification of the cellulose/chitin fibres for their use as fillers in biocomposites and for food packaging application”, COST Action FP1405: “Status of current developments and challenges in active and intelligent packaging”, 4-5 April 2016, Munich, Germany.
15. Nanofibre electrospinate PCL/Chitosan; A.Irimia, R.P.Dumitriu, E.Stoleru, G.E.Hitruc, A.Baklavaridis, C.Vasile; Progrese in stiinta compusilor organici si macromoleculari - Zilele Academice Iesene, Iasi, Romania, 2-4 Octombrie 2019

Patents

1. **A. Sdrobis**, E.G.Ioanid, C.Vasile, “*Cellulose/chitin mix fibers grafting procedure*”, RO 127205 A2, **2012**;
2. **A. Sdrobis**, E.G.Ioanid, C.Vasile, “*Textile fibers responsive to changes in temperature and pH*”, RO 127204 A2, **2012**.