Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**Aurica P. Chiriac**
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Telefon	++40 232 217 454
E-mail	achiriac1@yahoo.com , achiriac@icmpp.ro
Naţionalitate	romana
Data naşterii	17.12.1951
Sex	feminin

Experienţa profesională

Perioada	**2000 - prezent**
Funcţia sau postul ocupat	Cercetator principal I
Activităţi şi responsabilităţi principale	Sinteza si caracterizarea polimerilor, conducator echipe cercetare
Numele şi adresa angajatorului	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Tipul activităţii sau sectorul de activitate	Cercetare
Perioada	**1996 - 2000**
Funcţia sau postul ocupat	Cercetator principal II
Activităţi şi responsabilităţi principale	Sinteza si caracterizarea polimerilor, conducator echipe cercetare
Numele şi adresa angajatorului	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Tipul activităţii sau sectorul de activitate	Cercetare
Perioada	**1990 - 1996**
Funcţia sau postul ocupat	Cercetator principal III
Activităţi şi responsabilităţi principale	Sinteza si caracterizarea polimerilor, conducator echipe cercetare
Numele şi adresa angajatorului	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Tipul activităţii sau sectorul de activitate	Cercetare
Perioada	**1980 - 1990**
Funcţia sau postul ocupat	Cercetator stiintific
Activităţi şi responsabilităţi principale	Sinteza si caracterizarea polimerilor
Numele şi adresa angajatorului	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Tipul activităţii sau sectorul de activitate	Cercetare

Perioada	**1977 - 1980**
Funcţia sau postul ocupat	Chimist
Activităţi şi responsabilităţi principale	Sinteza si caracterizarea polimerilor
Numele şi adresa angajatorului	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Tipul activităţii sau sectorul de activitate	Cercetare

Educaţie şi formare

Perioada	**Mai 2000 – Octombrie 2000**
Calificarea / diploma obţinută	Profesor consultant
Disciplinele principale studiate / competenţe profesionale dobândite	(Co)polimerizare in camp magnetic
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Institutul de cercetare a polimerilor Max Planck - Mainz Germania.
Perioada	**1990 - 1994**
Calificarea / diploma obţinută	Teza doctorat
Disciplinele principale studiate / competenţe profesionale dobândite	Titlu teza : Efectul campului magnetic in procesele de polimerizare
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Institutul de Chimie Macromoleculara "P. Poni" , Iasi
Nivelul în clasificarea naţională sau internaţională	ISCED 6
Perioada	**1969 - 1974**
Calificarea / diploma obţinută	Licentiat in chimie
Disciplinele principale studiate / competenţe profesionale dobândite	Chimie teoretia si practica
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Facultatea de chimie a Universitatii « Al. I. Cuza » Iasi
Nivelul în clasificarea naţională sau internaţională	ISCED 5

Aptitudini şi competenţe personale

Limba(i) maternă(e)	**Romana**

Limba(i) străină(e) cunoscută(e)										
Autoevaluare	**Înţelegere**				**Vorbire**				**Scriere**	
Nivel european (*)	Ascultare		Citire		Participare la conversaţie		Discurs oral		Exprimare scrisă	
Engleza	B2	mediu	C1	avansat	B1	mediu	B1	mediu	B2	mediu
Franceza	B2	mediu	C1	avansat	B1	mediu	B1	mediu	B2	mediu

Competenţe şi abilităţi sociale	Capabila de a percepe si sintetiza informatii, de a stabili relatii de colaborare, abilitate de a comunica cu oamenii, a lucrat in diverse echipe de cercetare, experienta in managementul de proiecte, cu spirit de echipa.

Competenţe şi aptitudini organizatorice	Experienta in diferite activitati de organizare de manifestari in institut (CHIMINVENT 2005, Simpozion laborator acreditat LAMINAST in 2007).
Competenţe şi aptitudini tehnice	Sinteza de polimeri cu structuri si caracteristici speciale, reactii de polimerizare neconventionale in prezenta campului magnetic, nanoparticule cu caracteristici magnetice si aplicatii biomedicale, materiale compozite cu proprietati magnetice, (hidro)geluri, complecsi macromoleculari
Competenţe şi aptitudini de utilizare a calculatorului	Cunostinte avansate Microsoft Office (Word, Excel, PowerPoint), Origin, MathCad, ISIS, internet
Permis(e) de conducere	Categoria B
Informaţii suplimentare	- Membru fondator al Societatea Romana de Reologie - Membru al Societatii de Chimie, Societatii de Biomateriale, Societatii Inventatorilor - Auditor certificat SR EN ISO/CEL 17025: 2005, SR EN ISO 14001: 2005, Auditor Intern pentru sisteme de calitate si mediu conform SREN ISO 9001: 2001 si SR EN ISO 14001: 2005. - Membru in Comitete editoriale la : Recent Patents on Materials Science, The Open Macromolecules Journal, The Open Polymer Science Journal, Current applied polymer science, Journal of Research Updates in Polymer Science

10.09.2018

CS I Dr Aurica P Chiriac

Lista publicatii:

1. Loredana E. Niţă, Aurica P. Chiriac, Alina G. Rusu, Maria Bercea, Alina Diaconu, Niţă Tudorachi, Interpenetrating polymer network systems based on poly(dimethylaminoethyl methacrylate) and a copolymer containing pendant spiroacetal moieties, Materials Science and Engineering: C, In Press, 2018.
2. Alina Diaconu, Alina G. Rusu, Loredana E. Niţă, Aurica P. Chiriac, Iordana Neamţu, Using riboflavin as low molecular mass gelator for the preparation of a new network structure having spiroacetal moieties, Journal of Research Updates in Polymer Science, 6 (4), 134-141, 2018.
3. Niţă Tudorachi, Aurica P. Chiriac, Loredana E. Niţă, Fănică Mustaţă, Alina Diaconu, Vera Bălan, Alina Rusu, Gabriela Lisa, Studies on the nanocomposites based on carboxymethyl starch-g-lactic acid-coglycolic acid copolymer and magnetite, Journal of Thermal Analysis and Calorimetry, 1-14, 2017.
4. Alina Diaconu, Loredana E Niţă, Aurica P. Chiriac, Maria Butnaru, Investigation of the magnetic field effect upon interpolymeric complexes formation based on bovine serum albumin and poly(aspartic acid), International Journal of Biological Macromolecules, 119, 974-981, 2018.
5. Alina G. Rusu, Alina Diaconu, Niţă Tudorachi, Mihai Asăndulesa, Loredana E. Niţă, Mihaela Cristea, Iordana Neamţu, Aurica P. Chiriac, Comparative studies regarding the impact of the synthesis possibilities on the physico-chemical properties of poly(n,n-dimethylaminoethyl methacrylate), Revue Roumaine de Chimie, 62(4-5), 399-412, 2017 (FI=0,21).
6. Loredana Niţă, Aurica Chiriac, Alina Diaconu, Polymeric nanogels with applicability in the biomedical field, Recent Patents on Materials Science, Volume 11(2).
7. Chiriac, Aurica P; Nita, Loredana E; Tudorachi, Nita; et al. Upon synthesis of a polymeric matrix with pH and temperature responsiveness and antioxidant bioactivity based on poly(maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro [5.5] undecane) derivatives. Materials science & engineering. C, Materials for biological applications: 50: 348-57, 2015.
8. Neamtu, Iordana; Rusu, Alina Gabriela; Diaconu, Alina; et al.Basic concepts and recent advances in nanogels as carriers for medical applications. Drug delivery 24 (1) 539-557, 2017.
9. Chiriac, Aurica P; Nita, Loredana Elena; Diaconu, Alina; et al. Hybrid Gels by Conjugation of Hyaluronic Acid with Poly(itaconic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5)undecane) Copolymers. International journal of biological macromolecules, 2017.
10. Chiriac, Aurica P; Diaconu, Alina; Nita, Loredana E; et al.The influence of excipients on physical and pharmaceutical properties of oral lyophilisates containing a pregabalin-acetaminophen combination. Expert opinion on drug delivery, 1-11, 2017. Biodegradation of poly(lactic acid) and some of its based systems with Trichoderma viride. Lipsa, Rodica; Tudorachi, Nita; Darie-Nita, Raluca Nicoleta; et al. International Journal of Biological Macromolecules, 88, 515-526, 2016.
11. Balan, Vera; Asandulesa, Mihai; Butnaru, Elena; et al. Investigation On The Properties Of Poly (2-Hydroxyethyl Methacrylate - Co-3,9-Divinyl-2,4,8,10-Tetraoxaspiro (5.5) Undecane) As A Functional Polymeric System. Revue Roumaine De Chimie, 61, 8-9, 689-698, 2016.
12. Chiriac, Aurica P.; Balan, Vera; Asandulesa, Mihai; et al. Investigation on thermal, rheological, dielectric and spectroscopic properties of a polymer containing pendant spiroacetal moieties. Materials Chemistry and Physics, 180, 291-300, 2016.
13. Nita, Loredana Elena; Chiriac, Aurica P.; Diaconu, Alina; et al.Multifunctional nanogels with dual temperature and pH responsiveness, International Journal of Pharmaceutics, 515, 1-2 , 165-175, 2016.
14. Nita, L E; Chiriac, A P; Bercea, M; et al.Self-assembling of poly(aspartic acid) with bovine serum albumin in aqueous solutions. International journal of biological macromolecules, 95,412-420, 2016.
15. Nita, Loredana E.; Chiriac, Aurica P.; Stoleru, Elena; et al. Tailorable polyelectrolyte protein complex based on poly(aspartic acid) and bovine serum albumin. Designed Monomers and Polymers, 19,7, 596-606, 2016.
16. Chiriac, Aurica P.; Nita, Loredana E.; Neamtu, Iordana, Possibilities of quercetin insertion into poly(N, N-dimethylacrylamide-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) network. Materials Science & Engineering C-Materials For Biological Applications: 47: 17-25, 2015.
17. Tudorachi, Nita; Chiriac, Aurica P.; Mustata, Fanica, New nanocomposite based on poly(lactic-co-glycolic acid) copolymer and magnetite. Synthesis and characterization. Composites Part B-Engineering, 72: 150-159, 2015.
18. L. E. Nita, A. P. Chiriac, M. Bercea, Effect of pH and temperature upon self-assembling process between poly(aspartic acid) and Pluronic F127;; Colloids and Surfaces B: Biointerfaces, 119, 47-54 (2014).
19. L. E. Nita, A. P. Chiriac, M. T. Nistor, L. Tartau; Upon some multimembrane hydrogels based on poly(N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5,5) undecane): preparation, characterization and in vivo tests; Journal of Materials Science: Materials in Medicine, 25, 1757-1768 (2014).
20. A. P. Chiriac, L. E. Nita, L. Tartau, I. Neamtu, M. T. Nistor, Semi-imprinting quercetin into poly[N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5,5) undecane] network: Evaluation of the antioxidant character;; Journal of Pharmaceutical Sciences, 103, 2338-2346 (2014).
21. I. Neamtu, A. P. Chiriac, A. Diaconu, L. E. Nita, V. Balan, M. T. Nistor, Current concepts on cardiovascular stent devices; Mini-Reviews in Medicinal Chemistry, 14, 505-536 (2014).

22. A. P. Chiriac, L.E. Nita, M. T. Nistor, L. Tartau, Multilayered structure based on poly(N,N-dimethyl-acrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) undecane) prepared in a multiphase gelation process; International Journal of Pharmaceutics 456, 21– 30 (2013).
23. A. P. Chiriac, L. E. Nita, M. Nistor, On 2 - Hydroxyethyl Methacrylate copolymerization with a comonomer with spiroacetal moiety, Journal of polymer science, 2011 Volume 49(7): 1543–1551
24. N. Tudorachi, A. Chiriac, Obtaining of new magnetic nanocomposites based on modified polysaccharide; Carbohydrate Polymers, 98, 451– 459 (2013).
25. L.E. Nita, A.P. Chiriac, M. Bercea, B.A. Wolf, Synergistic behavior of poly(aspartic acid) and Pluronic F127 in aqueous solution as studied by viscometry and dynamic light scattering, Colloids and Surfaces B: Biointerfaces 103, 544– 549, (2013).
26. M. T. Nistor, A. P. Chiriac, L.E. Nita, C. Vasile, Characterization of the semi-interpenetrated network based oncollagen and poly(N-isopropyl acrylamide-co-diethylene glycoldiacrylate); International Journal of Pharmaceutics, 452, 92– 101 (2013).
27. M.T. Nistor, C. Vasile, A. P. Chiriac, L. Tartau, Biocompatibility, biodegradability, and drug carrier ability of hybrid collagen-based hydrogel nanocomposites; Journal of Bioactive and Compatible Polymers, 28(6), 540–556 (2013).
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29. R. Lipsa, N. Tudorachi, C. Vasile, A. Chiriac, A. Grigoras Novel Environmentally Friendly Copolymers Carboxymethyl Starch Grafted Poly(Lactic Acid); J of Polym and Environ, 21, 461–471 (2013).
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31. M. T. Nistor, A. P. Chiriac, L. E. Nita, I. Neamtu, C. Vasile, Semi-interpenetrated Network with Improved Sensitivity Based on Poly(N-Isopropyl-acrylamide) and Poly(aspartic acid); Polymer Engineering and Science, 53(11), 2345–2352 (2013).
32. A. P. Chiriac, M. T. Nistor, L. E. Nita, I. Neamtu,Poly(N, N-dimethylacrylamide-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) synthesis as matrix ensuring intramolecular strategies for further coupling applications; Rev. Roum. Chim. 58(2-3), 129-136, (2013).
33. L.E. Nita, A.P. Chiriac, M.T. Nistor, I. Neamtu, Hydrogel based on poly(n, n-dimethylacrylamide-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) with dual sensitive behavior. Synthesis and characterization; Rev. Roum. Chim., 58(2-3), 137-143, (2013)
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35. Synthesis and thermal analysis of a magnetic composite by thermogravimetry coupled to fourier transform infrared spectroscopy and mass spectrometry; N. Tudorachi, A.P. Chiriac, I. Neamtu, M.T. Nistor, G. Lisa; *Industrial & Engineering Chemistry Research* 51: 335–344 (2012). (IF= 2.237)
36. L. E. Nita, A. P. Chiriac, M. Bercea I. Neamtu; The magnetic field effect during preparation of an interpenetrated hybrid polymeric composite; Polymer Composites, 33 (10), 1816 – 1823. (IF= 1.231)
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40. M.T. Nistor, A. P. Chiriac, C. Vasile, L. Verestiuc, L. E. Nita Synthesis of hydrogels based on poly(NIPAM) inserted into collagen sponge; Colloids and Surfaces B: Biointerfaces 87: 382– 390 (2011).
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42. L.E. Nita, A.P. Chiriac, M.T. Nistor, L. Tartau. Indomethacin uptake into poly(2-hydroxyethyl methacrylate-co-3,9-divinyl-2,4,8,10-tetraoxa-spiro [5.5]-undecane) network: In vitro and in vivo controlled release study. Int. J. Pharm., 426, 90-99 (2012).
43. Loredana E. Nita, Aurica P.Chiriac1, Manuela T. Nistor, Liliana Tartau. Evaluation of the Controlled Release Ability from Poly(2 - Hydroxyethyl Methacrylate – co – 3, 9 – Divinyl - 2, 4, 8,10-Tetraoxaspiro [5.5]-Undecane) Polymer Network Synthesized in the Presence of Cyclodextrin; Journal of Materials Science: Materials in Medicine, DOI 10.1007/s10856-012-4601-y
44. Nita LE, Chiriac AP, Nistor MT, Tartau L. 2012. Indomethacin-loaded polymer nanocarriers based on poly(2-hydroxyethyl methacrylate-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) undecane): Preparation, in vitro and in vivo evaluation. J Biomed Mater Res Part B 2012:100B:1121–1133.
45. N. Tudorachi, A. P. Chiriac Poly(vinyl alcohol-co-lactic acid)/Hydroxyapatite Composites: Synthesis and Characterization; J Polym Environ 19: 546–558 (2011)
46. N. Tudorachi, A.P. Chiriac TGA/FTIR/MS study on thermal decomposition of poly(succinimide) and sodium poly(aspartate); Polymer Testing 30: 397–407 (2011).
47. A. P. Chiriac, L.E. Nita, M. T. Nistor Nano-network with dual temperature and pH responsiveness based on copolymers of 2-hydroxyethyl methacrylate with 3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]-undecane; J Nanopart Res 13: 6953–6962 (2011).

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