

## TEZA DE DOCTORAT

“Studiul efectului campului magnetic pentru obtinerea unor sisteme polimerice cu potentiale aplicatii biomedicale”, conducator stiintific C.S. I Dr. Cornelia Vasile sustinuta la data de 25.09. 2007 la Institutul de Chimie Macromoleculara „Petru Poni” Iasi. (Diploma de doctor Seria B, nr. 0000030 aprobata prin Ordinul Ministrului Invatamantului nr. 3439 din 12.03.2008)

## ACTIVITATEA STIINTIFICA

### I. CARTI SI CAPITOLE IN CARTI

#### I.1. CARTI:

1. *Polimeri degradabili si biocompatibili*, Editori C. Vasile, Aurica P. Chiriac, **L. E. Nita**, Edit tehnopress, 2006, ISBN 973-702-378-1.
2. *Posibilitati de utilizare ale campului magnetic si efecte induse de camp in procese radicalice si obtinerea de biostructuri*, Autori: **L.E. Nita**, A.P.Chiriac, PIM Publishing House, Iasi 2010. ISBN 978-606-13-0102-7

#### I.2. CAPITOLE IN CARTI:

1. **L. E. Nita**, A. P. Chiriac, C. Vasile, Chapter 6: Styrene polymers/ferrite magnetic composites with potential biomedical applications, *Biochemistry and Chemistry*, Zaikov and Lobo (Eds), Nova Science, 2003, p73.
2. C. Vasile, B.S. Munteanu, M. Pascu, A. Stoleriu, M. Brebu, **L.E. Nita**, A. Tomescu, A. Cojocariu, E Nemes, T. Zaharescu, Radiation processing of polyolefine blends containing compatibiliser, *Focus on Natural Synthetic Polymer Science*, C. Vasile si C.E Zaikov (Eds), Nova Science, New York, 2006, p1-31.
3. **L. E. Nita**, Aurica P. Chiriac, I. Neamtu, Capitol XVII, OBTINERE, CARACTERISTICI SI DOMENII DE APLICABILITATE ALE ACIDULUI POLI(ASPARTIC), p344, *Polimeri degradabili si biocompatibili*, Editori C. Vasile, Aurica P. Chiriac, L. E. Nita, Edit tehnopress, 2006.
4. M.I. Totolin, I. Neamtu, **L. E. Nita**, Acțiunea plasmă reci asupra suprafețelor polimerice; in *Plasma rece in tratamentul materialelor: de la fundamental la aplicatii*; Ed. M.I. Totolin, I. Neamtu, G.E. Ioanid, Editura Performantica Iasi, 4 – 22, 2007.
5. M.I. Totolin, I. Neamtu, A.P. Chiriac, **L. E. Nita**, Depunerea de filme polimerice prin polimerizarea în condițiile plasmă reci, in *Plasma rece in tratamentul materialelor: de la fundamental la aplicatii*; Ed. M.I. Totolin, I. Neamtu, G.E. Ioanid, Editura Performantica Iasi, 22 – 69, 2007.
6. A.P. Chiriac, I. Neamtu, **L. E. Nita**, Posibilități de investigare a filmelor ultrasubțiri prin spectroscopie elipsometrică, in *Plasma rece in tratamentul materialelor: de la fundamental la aplicatii*; Ed. M.I. Totolin, I. Neamtu, G.E. Ioanid, Editura Performantica Iasi, ISBN 978-973-730-394 – 3, p 324 – 337, (2007).
7. A. P. Chiriac, I. Neamtu, **L. E. Nita**, M. T. Nistor, Sol-Gel Based Materials for Biomedical Applications, The Sol-Gel Process: Uniformity, Polymers and Applications; NovaPublisher 2010, Editors: Rachel E. Morris. ISBN: 978-1-61761-621-1. p 1-68.
8. MT Nistor, C Vasile, AP Chiriac, A Rusu, C Zgardan, **LE Nita**, I Neamtu, Hybrid Sensitive Hydrogels for Medical Applications. Chapter 3. in *Polymer materials with smart properties*. (Eds.) M. Bercea; Nova Science Publ. New York. 2013, ISBN 978-1-62808-876-2 p67 – 89.
9. **L.E. Nita**, A.P. Chiriac, I. Neamtu. Sol-Gel Technique Implemented for Biomedical Applications. Chapter 8. In *Polymer materials with smart properties*. (Eds.) M Bercea; Nova Science Publ. New York; 2013, ISBN 978-1-62808-876-2 p.189 – 204.
10. A. Diaconu, A. Chiriac, I. Neamtu, **L. Nita**, Magnetic Polymeric Nanocomposites in *Polymeric Nanomaterials in Nanotherapeutics*, editata de Cornelia Vasile, editura Elsevier, editia I, 359-386 2018.

11. I. Neamtu, A. Chiriac, **L. E. Nita**, A. Diaconu, A. G. Rusu, Nanogels Containing Polysaccharides for Bioapplications in Nanotherapeutics in *Polymeric Nanomaterials in Nanotherapeutics*, editata de Cornelia Vasile, editura Elsevier, editia I, 387-420 (2018).

## II. Brevete:

1. Pat Ro 127513, 2018. „Process for preparation of a gel sensible to extern stimula”. **LE Nita**, AP Chiriac, MT Nistor, I Neamtu.
2. Pat Ro 131478, 2018. „Process for sunthesis of a copolymer matrix for biomedical applications”. AP Chiriac, **LE Nita**, A. Diaconu, I. Neamtu, N. Tudorachi, V Balan.
3. Pat Ro 128903, 2016. „Process for sunthesis of a temperature and pH sensitive hydrogel”. AP Chiriac, **LE Nita**, I Neamtu, MT Nistor.
4. Pat Ro 127868, 2016. „Aqueous dispersion polymeric system sensitive to pH and/or temperature stimuli”. AP Chiriac, **LE Nita**, MT Nistor, I Neamtu.
5. Pat Ro 128483, 2016. „Process for sunthesis of a polymeric structure with temperature sensitivity”. AP Chiriac, **LE Nita**, I Neamtu, MT Nistor.
6. Pat Ro 131027, 2016. „Process for synthesis of a magnetic composite for targeted delivery and controlled release of medicaments”. AP Chiriac, **LE Nita**, I Neamtu, MT Nistor.
7. Pat Ro 130243, 2015. „A magnetic composite synthesis process as temperature- and/or pH-sensitive copolymer micro-particles with combined hydrophilic and hydrophobic”. AP Chiriac, **LE Nita**, I Neamtu, N. Tudorachi, A. Diaconu, V. Balan, C. Munteanu.
8. Pat Ro 126041, 2011. „Process for the synthesis of a magnetic composite”. AP Chiriac, **LE Nita**, I. Neamtu.
9. Pat Ro 125751, 2010. „Process for synthesis of a copolymer applied as matrix for sensor type systems in aqueous dispersion”. AP Chiriac, **LE Nita**, I. Neamtu, N. Tudorachi, A. Diaconu, V Balan.
10. Pat Ro 125752, 2010. „Process for the synthesis of a magnetic composite for use as carrier in therapeutic applications”. AP Chiriac, **LE Nita**, MT Nistor, I Neamtu.

## III. ARTICOLE STIINTIFICE

III.1. Articole publicate in extenso in reviste de specialitate de circulatie internationala recunoscute (cotate ISI)

Nr. crt	Autori/Articol/Revista	F.I. (2017)
1.	A.P. Chiriac, A. Ghilan, <b>L.E. Nita</b> , N. Tudorachi, L.Tartau, A. Creteanu, O.M Dragotin, D. Rusu, G. Popa, The influence of excipients on physical and pharmaceutical properties of oral lyophilisates containing a pregabalin-acetaminophen combination, <i>Expert opinion in drug delivery</i> , 14 (5), 589-599 (2017).	<b>5.553</b>
2.	C. Vasile, <b>L.E. Nita</b> , Novel multi-stimuli responsive sodium alginate-grafted-poly(N-isopropylacrylamide) copolymers: II. Dilute solution properties, <i>Carbohydrate Polymers</i> , 86(1), 77-84 (2011).	<b>5.158</b>
3.	<b>L. E. Nita</b> , A. P. Chiriac, A.G. Rusu, M. Bercea, A. Diaconu, N. Tudorachi, Interpenetrating polymer network systems based on poly (dimethylaminoethyl methacrylate) and a copolymer containing pendant spiroacetal moieties, <i>Materials Sci &amp; Eng C</i> , 87, 22 – 31 (2018)	<b>5.08</b>
4.	A.P. Chiriac, <b>L.E. Nita</b> , N. Tudorachi, I. Neamtu, V. Balan, L.Tartau, 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, <i>Materials Sci &amp; Eng C</i> , 50, 348 – 357 (2015)	<b>5.08</b>
5.	A.P. Chiriac, <b>L.E. Nita</b> , I. Neamtu, Possibilities of quercetin insertion into poly(N, N-	<b>5.08</b>

	dimethylacrylamide-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) network, <i>Materials Sci &amp; Eng C</i> , 47, 17 – 25 (2015).	
6.	V. Balan, M.I. Popa, L. Verestiuc, A.P. Chiriac, I. Neamtu, <b>L.E. Nita</b> , M.T. Nistor, Functionalized magnetic composites based on block copolymers poly(succinimide)-b-poly(ethylene glycol) with potential applications in blood detoxification, <i>Composites Part B: Engineering</i> , 43 (3), 926-932 (2012).	<b>4.92</b>
7.	M.T. Nistor, A.P. Chiriac, <b>L.E. Nita</b> , C. Vasile, L. Verestiuc, Upon the characterization of semi-synthetic hydrogels based on poly (NIPAM) inserted onto collagen sponge, <i>Composites Part B: Engineering</i> , 43 (3), 1508-1515 (2012).	<b>4.92</b>
8.	A.P. Chiriac, I. Neamtu, <b>L.E. Nita</b> , M.T. Nistor, A study on the composites based on poly(succinimide)-b-poly(ethylene glycol) and ferrite and their magnetic response, <i>Composites Part B: Engineering</i> , 42 (6), 1525-1531 (2011).	<b>4.92</b>
9.	<b>L.E. Nita</b> , A.P. Chiriac, M. Bercea, M.T. Nistor, Static and dynamic investigations of poly(aspartic acid) and Pluronic F127 complex prepared by self-assembling in aqueous solution, <i>Appl Surf Sci</i> , 359, 486-495 (2015)	<b>4.439</b>
10.	A.P. Chiriac, <b>L.E. Nita</b> , I. Neamtu, V. Badescu, Upon a magnetic composite preparation based on magnetite and poly(succinimide)-b-poly(ethylene glycol) shell, <i>Appl Surf Sci</i> , 257(3), 997-1001 (2010)	<b>4.439</b>
11.	<b>L. E. Nita</b> , A. P. Chiriac, I. Neamtu, M. Bercea, Study of a binary interpenetrated polymeric complex by correlation of rheological parameters with zeta potential and conductivity, <i>Colloids and surfaces B: Biointerfaces</i> , 76(1), 70-75 (2010).	<b>3.997</b>
12.	<b>L. E. Nita</b> , A. P. Chiriac, M. Bercea, Effect of pH and temperature upon self-assembling process between poly(aspartic acid) and Pluronic F127, <i>Colloids and surfaces B: Biointerface</i> , 119, 47-54 (2014)	<b>3.997</b>
13.	<b>L.E. Nita</b> , 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, <i>Colloids and surfaces B: Biointerfaces</i> , 103, 544-579 (2013).	<b>3.997</b>
14.	M.T. Nistor, A.P. Chiriac, C. Vasile, L. Verestiuc, <b>L. E. Nita</b> , Synthesis of hydrogels based on poly(NIPAM) inserted into collagen sponge, <i>Colloids and surfaces B: Biointerfaces</i> , 87 (2), 382-390 (2010)	<b>3.997</b>
15.	<b>L. E. Nita</b> , A. P. Chiriac, M. Bercea, M. Asandulesa, B.A. Wolf, Self-assembling of poly(aspartic acid) with bovine serum albumin in aqueous solutions, <i>Int J Biol Macromol</i> , 95, 412-420 (2017)	<b>3.909</b>
16.	<b>L. E. Nita</b> , A. P. Chiriac, M. Bercea, A. Ghilan, A.G. Rusu, N. Tudorachi, Multifunctional hybrid 3D network based on hyaluronic acid and a copolymer containing pendant spiroacetal moieties, <i>Int J Biol Macromol</i> , 125, 191-202 (2019)	<b>3.909</b>
17.	A.P. Chiriac, <b>L.E. Nita</b> , A. Diaconu, M. Bercea, N. Tudorachi, D. Pamfil, L. Tartau, Hybrid gels by conjugation of hyaluronic acid with poly(itaconic anhydride-co-3,9-divinyl-1,2,4,8,10-tetraoxaspiro (5.5)undecane) copolymers, <i>Int J Biol Macromol</i> , 98, 407-418 (2017).	<b>3.909</b>
18.	A. Diaconu, <b>L. E. Nita</b> , A. P. Chiriac, M. Butnaru, Investigation of the magnetic field effect upon interpolymeric complexes formation based on bovine serum albumin and poly(aspartic acid), <i>Int J Biol Macromol</i> , 119, 974-981 (2018).	<b>3.909</b>
19.	<b>L.E. Nita</b> , A.P. Chiriac, M.T. Nistor, L. Tartau, Indomethacin uptake into poly(2-hydroxyethyl methacrylate-co-3,9-divinyl-2, 4,8,10-tetraoxaspiro [5.5]-undecane) network: In vitro and in vivo controlled release study, <i>Int. J. of Pharm</i> , 426, 90-99 (2012).	<b>3.862</b>
20.	<b>L.E. Nita</b> , A.P. Chiriac, L. Mititelu-Tartau, E. Stoleru, F. Doroftei, A. Diaconu, Patterning poly(maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) undecane) copolymer bioconjugates for controlled release of drugs, <i>Int. J. of Pharm</i> ,	<b>3.862</b>

	493, 328-340 (2015).	
21.	L. E. Nita, A. P. Chiriac, A. Diaconu, N. Tudorachi, L. Mititelu-Tartau, Multifunctional nanogels with dual temperature and pH responsiveness, <i>Int. J. of Pharm</i> , 515, 165-175 (2016).	3.862
22.	M. T. Nistor, A. P. Chiriac, L.E. Nita, C. Vasile, Characterization of the semi-interpenetrated network based on collagen and poly(N-isopropyl acrylamide-co-diethylene glycol diacrylate), <i>Int. J. of Pharm</i> , 452, 92-101 (2013),	3.862
23.	A.P. Chiriac, L.E. Nita, M.T. Nistor and 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, <i>Int. J. of Pharm</i> , 456, 21-30 (2013)	3.862
24	L.E. Nita, A.P. Chiriac, M.T. Nistor, L. Tartau, 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, <i>J.Biomed. Mat. Res Part B: Applied Biomaterial</i> , 100B, 1121-1133 (2012).	3.373
25.	A. Diaconu, L. E. Nita, M. Bercea, A. P. Chiriac, A.G. Rusu, D. Rusu, Hyaluronic acid gels with tunable properties by conjugating with a synthetic copolymer, <i>BIOCHEMICAL ENGINEERING JOURNAL</i> , 125, 135-143 (2017).	3.226
26.	L.E. Nita, A.P. Chiriac, M. Bercea, I. Neamtu, The Temperature Influence upon the Complexation Process between Poly(aspartic acid) and Poly(ethylene glycol), <i>Ind. Eng. Chem. Res.</i> 50(9), 5369-5375 (2011).	3.141
27.	L.E. Nita, M.T. Nistor, A.P. Chiriac, I. Neamtu, Cross-Linking Structural Effect of Hydrogel Based on 2-Hydroxyethyl Methacrylate, <i>Ind. Eng. Chem. Res.</i> 51 (3), 7769-7776 (2011).	3.141
28.	M. Bercea, R. Darie, L.E. Nita, S. Morariu, Temperature Responsive Gels Based on Pluronic F127 and Poly(vinyl alcohol), <i>Ind. Eng. Chem. Res.</i> 50(7), 4199-4206 (2011).	3.141
29.	I. Neamtu, A. G. Rusu, A. Diaconu, L.E. Nita, A.P. Chiriac, Basic concepts and recent advances in nanogels as carriers for medical applications, <i>DRUG DELIVERY</i> , 24(1), 539-557 (2017)	3.095
30.	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, <i>Journal of Pharmaceutical Sciences</i> , 103(8), 2338-2346 (2014)	3.075
31.	M. Mihai, C. A. Ghiorghita, I. Stoica, L.E. Nita, I. Popescu, Ghe. Fundueanu, New polyelectrolyte complex particles as colloidal dispersions based on weak synthetic and/or natural polyelectrolytes, <i>eXPRESS Polymer Letters</i> , 5(6), 506-515 (2011).	3.064
32.	L. Cianga, A.-D. Bendrea, N. Fifere, L. E. Nita, F. Doroftei, D. Ag, M. Selec, S. Timur, I. Cianga, Fluorescent micellar nanoparticles by self-assembly of amphiphilic, nonionic and water self-dispersible polythiophenes with "hairy rod" architecture, <i>RSC Adv.</i> 4(99), 56385-56405 (2014).	2.936
33.	L.E. Nita, A.P. Chiriac, I. Neamtu, M. Bercea, M. Pintilie, An analysis of the complexation between poly(aspartic acid) and poly (ethylene glycol), <i>Colloids and Surfaces A: Physicochem. Eng. Aspects</i> 348, 254-262 (2009)	2.829
34.	L. E. Nita, A. P. Chiriac, M. T. Nistor, Upon the emulsion polymerization of 2-hydroxyethyl methacrylate with 3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]-undecane, <i>Colloids and Surfaces A: Physicochem. Eng. Aspects</i> 381, 111-117 (2011)	2.829
35.	L. E. Nita, A. P. Chiriac, M. Bercea, I. Neamtu, Aspects concerning the temperature influence on the polymer/polymer interactions between poly(aspartic acid) and poly(ethylene glycol), <i>Colloids and Surfaces A: Physicochem. Eng. Aspects</i> 374, 121-128 (2011).	2.829
36.	A.P.Chiriac, L.E. Nita, I. Neamtu, M. Nistor (Pintilie), Sol Gel Method Performed for Biomedical Products Implementation, <i>Mini-reviews in medicinal chemistry</i> 10(11) 990-	2.645

	1013 (2010).	
37.	I. Neamtu, A. P. Chiriac, A. Diaconu, <b>L. E. Nita</b> , V. Balan, M. T. Nistor, Current Concepts on Cardiovascular Stent Devices, <i>Mini-reviews in medicinal chemistry</i> , 14 (6), 505-536 (2014).	<b>2.645</b>
38.	A. P. Chiriac, <b>L. E. Nita</b> , M. T. Nistor, Copolymerization of 2-Hydroxyethyl Methacrylate with a Comonomer with Spiroacetal Moiety, <i>Journal of Polymer Science Part A</i> , 49 (7), 1543-1551 (2011).	<b>2.588</b>
39.	M. Bercea, <b>L. E. Nita</b> , J. Eckelt, B. A. Wolf, Polyelectrolyte Complexes: Phase Diagram and Intrinsic Viscosities of the System Water/Poly(2-vinylpyridinium-Br)/Poly(styrene sulfonate-Na), <i>Macromolecular Chemistry and Physics</i> , 213 (23), 2504-2513 (2012).	<b>2.492</b>
40.	R.P. Dumitriu, L. Profire, <b>L.E. Nita</b> , O.M. Dragostin, N. Ghetu, D. Pieptu, C. Vasile, Sulfadiazine-Chitosan Conjugates and Their Polyelectrolyte Complexes with Hyaluronate Destined to the Management of Burn Wounds, <i>Material</i> , 8 (1), 317-338 (2015).	<b>2.467</b>
41.	<b>L. E. Nita</b> , A. P Chiriac, M. Nistor, An in vitro release study of indomethacin from nanoparticles based on methyl methacrylate/glycidyl methacrylate copolymers, <i>J Mater Sci: Mater Med</i> 21 (12), (2010).	<b>2.448</b>
42.	<b>L. E. Nita</b> , A. P Chiriac, Effect of emulsion polymerization and magnetic field on the adsorption of albumin on poly(methyl methacrylate)-based biomaterial surfaces, <i>J Mater Sci: Mater Med</i> 21 (8), (2010).	<b>2.448</b>
43.	<b>L.E. Nita</b> , A.P. Chiriac, M.T. Nistor, L. Tartau, Evaluation of the controlled release ability from the poly(2-hydroxyethyl methacrylate-co-3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]undecane) polymer network synthesized in the presence of beta-cyclodextrin, <i>J Mater Sci: Mater Med</i> 23, 1211-1223, (2012)	<b>2.448</b>
44.	<b>L. E. Nita</b> , A. P. Chiriac, M. T. Nistor, L. Tartau, Upon some multi-membrane hydrogels based on poly(N,N-dimethyl-acrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5.5) Undecane): preparation, characterization and in vivo tests, <i>J Mater Sci: Mater Med</i> 25 (7), 1757-1768 (2014)	<b>2.448</b>
45.	<b>L.E. Nita</b> , A. P. Chiriac, S. Cimmino, C. Silvestre, D. Duraccio, C. Vasile, Polymerization in magnetic field: XVIII. Influence of surfactant nature on the synthesis and thermal properties of poly(methyl methacrylate) and poly[(methyl methacrylate)-co-(epoxypropyl methacrylate)], <i>Polymer International</i> , 57 (2), 342-349 (2008).	<b>2.352</b>
46.	A.P. Chiriac, <b>L.E. Nita</b> , I. Neamtu, M. Bercea, Contribution to polymer nanoparticles analysis by laser light scattering, <i>Polymer Testing</i> , 28(8), 886-890 (2009).	<b>2.247</b>
47.	A. P. Chiriac , V. Balan, M. Asandulesa, E. Butnaru, N. Tudorachi, E. Stoleru, <b>L. E. Nita</b> , I. Neamtu, A. Diaconu, Investigation on thermal, rheological, dielectric and spectroscopic properties of a polymer containing pendant spiroacetal moieties, <i>Materials Chemistry and Physics</i> , 180, 291-300 (2016).	<b>2.21</b>
48.	A. P. Chiriac, A.G. Rusu, A. Diaconu, N. Tudorachi, <b>L. E. Nita</b> , I. Neamtu, D. Rusu, Functional and structural analysis of a network containing a polymer structure with spiroacetal moieties and riboflavin as low molecular mass gelator, <i>Materials Chemistry and Physics</i> , 217, 242-253 (2018).	<b>2.21</b>
49.	N. Tudorachi, A. P. Chiriac, <b>L. E. Nita</b> , F. Mustata, A. Diaconu, V. Balan, A.G. Rusu, G. Lisa, Studies on the nanocomposites based on carboxymethyl starch-g-lactic acid-co-glycolic acid copolymer and magnetite, <i>JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY</i> , 131, 1867-1880 (2018).	<b>2.209</b>
50	<b>L. E. Nita</b> , A. P. Chiriac, A combined NIR-Cl, SEM, ESEM and X-ray nondestructive examination for the characterization of composite polymeric surfaces, <i>J Nanopart Res</i> , 14 (4) 795-805 (2012).	<b>2.127</b>
51.	A. P. Chiriac, <b>L.E. Nita</b> , M. T. Nistor, Nano-network with dual temperature and pH responsiveness based on copolymers of 2-hydroxyethyl methacrylate with 3,9-divinyl-	<b>2.127</b>

	2,4,8,10-tetraoxaspiro[5.5]-undecane, <i>J Nanopart Res</i> , 13 (12), 6953-6962 (2011).	
52.	I. Neamtu, A.P. Chiriac, <b>L.E. Nita</b> , N. Tudorachi, A. Diaconu, In situ preparation of a magnetic composite during functionalization of poly[maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane] with erythritol, <i>J Nanopart Res</i> 17, 254-268, (2015).	<b>2.127</b>
53.	<b>L. E. Nita</b> , A. P. Chiriac, M. Bercea I. Neamtu, The magnetic field effect during preparation of an interpenetrated hybrid polymeric composite, <i>Polym Composite</i> 33 (10), 1816-1823 (2012).	<b>1.943</b>
54.	<b>L E Niță</b> , Aurica P. Chiriac, Cornelia Vasile, Possibilities of collagen adsorption on some polymeric matrices based on styrene copolymers, <i>Journal of Applied Polymer Science</i> , 100 (5), 3554-3561 (2006).	<b>1.901</b>
55.	<b>L E Niță</b> , Aurica P. Chiriac, Iordana Neamtu, Cornelia Vasile, Magnetic composites obtainment based on styrene polymers, <i>Journal of Applied Polymer Science</i> , 100 (5), 4133-4141 (2006).	<b>1.901</b>
56.	<b>L. E. Nita</b> , A. P. Chiriac, Polymerization in a magnetic field, part 17: Styrene copolymerization with 2,3-epoxypropyl methacrylate, <i>Journal of Applied Polymer Science</i> , 104 (5), 3029-3035 (2007).	<b>1.901</b>
57.	<b>L E Niță</b> , Aurica P. Chiriac, Maria Bercea, Iordana Neamtu, In situ monitoring the sol-gel transition for polyacrylamide gel, <i>Rheological Acta</i> , 46 (5) 595-600 (2007).	<b>1.833</b>
58.	M. Bercea, S. Morariu, <b>L. E. Nita</b> , R. N. Darie, Investigation of Poly(vinyl alcohol)/Pluronic F127 Physical Gels, <i>Polymer-Plastics Technology and Engineering</i> , 53(13), 1354-1361.	<b>1.655</b>
59.	M.T. Nistor, A. Chiriac, <b>L.E Nita</b> , I. Neamtu, C. Vasile, Semi-interpenetrated Network with Improved Sensitivity Based on Poly(N-Isopropylacrylamide) and Poly(aspartic acid), <i>Polymer Engineering and Science</i> , 53 (11), 2345-2352 (2013).	<b>1.551</b>
60.	M.T. Nistor, A.P. Chiriac, <b>L.E. Nita</b> , C.Vasile, M. Bercea, Semi-interpenetrated polymer networks of hyaluronic acid modified with poly(aspartic acid), <i>Journal of Polymer Research</i> , 20(2), 86 (2013).	<b>1.434</b>
61.	<b>L. E. Nita</b> , A. P. Chiriac, E. Stoleru, A. Diaconu, N. Tudorachi, Tailorable polyelectrolyte protein complex based on poly(aspartic acid) and bovine serum albumin, <i>Designed Monomers and Polymer</i> , 19(7), 596-606 (2016)	<b>1.37</b>
62.	A. Diaconu, A.P. Chiriac, <b>L.E. Nita</b> , N. Tudorachi, I.Neamtu, C. Vasile, M. Pinteala, Design and synthesis of a new polymer network containing pendant spiroacetal moieties, <i>Designed Monomers and Polymers</i> , 18 (8), 780-788 (2015).	<b>1.37</b>
63.	<b>L E Niță</b> , A. P. Chiriac, Studies regarding the release of codeine from metacrylic polymer matrices, <i>Materiale Plastice</i> , 42(2), 146-150 (2005)	<b>1.248</b>
64.	<b>L. E. Nita</b> , A. P. Chiriac, The bioactive composites obtainment based on vinylic compounds and proteins, <i>Materiale Plastice</i> , 41(2), 109-114 (2004)	<b>1.248</b>
65.	<b>L. E. Nita</b> , M. Pintilie, A. P. Chiriac, Tailoring a Biomaterial Structure Based on Poly(aspartic acid) and Poly(ethylene glycol), <i>Materiale Plastice</i> 46(4), 345-349 (2009)	<b>1.248</b>
66.	<b>L. E. Nita</b> , A. P. Chiriac, M. Bercea I. Neamtu, Evaluation of the Complexation Process Between Poly(Aspartic Acid) and Poly(Ethylene Glycol) Through Dynamic Rheology and Electrokinetic Potential, <i>J. Macromol. Sci. Part B: Physics</i> 51(3), 288-297 (2012).	<b>1.005</b>
67.	I. Neamtu, <b>L. E. Nita</b> , M. Bercea, A. P. Chiriac, The rheological behavior of chemically crosslinked hydrogels based on poly(acrylamide), <i>Polymer</i> , 54 (11), 795-800 (2009).	<b>0.713</b>
68.	A. P. Chiriac, <b>L. E. Nita</b> , I. Neamtu, Poly(ethylene glycol) functionalized by polycondensing procedure with poly(succinimide), <i>Polymer</i> , 55(9), 641-645 (2010)	<b>0.713</b>
69.	<b>L E Nita</b> , A. P. Chiriac, Magnetic field effects during styrene copolymerization with 2,3-epoxypropyl methacrylate, <i>Journal of optoelectronics and advanced materials</i> , 8(1), 197-200 (2006).	<b>0.39</b>
70.	I. Neamtu, <b>L E Nita</b> , A. P. Chiriac, Rheological monitoring of in situ poly(acrylamide)	

	gel preparation, <i>Journal of optoelectronics and advanced materials</i> , 8(1), 201-204 (2006).	<b>0.39</b>
71.	<b>L. E. Niță</b> , A. P. Chiriac, C. M. Popescu, I. Neamțu, L. Alecu, Possibilities for poly(aspartic acid) preparation as biodegradable compound, <i>Journal of optoelectronics and advanced materials</i> , 8(2), 663-666 (2006).	<b>0.39</b>
72.	I. Neamtu, A. P. Chiriac, <b>L. E. Nita</b> , M. Bercea, A. Stoleriu, Poly(aspartic acid) in interpolymer complex with biomedical applications, <i>Journal of optoelectronics and advanced materials</i> , 9(11), 3459-3462 (2007).	<b>0.39</b>
73.	I. Neamtu, A. P. Chiriac, <b>L. E. Nita</b> , M. Bercea, A. Stoleriu, Investigation of poly(aspartic acid)/vinyl polymer interpolymer complex, <i>Journal of optoelectronics and advanced materials</i> , 9(4), 981-984 (2007)	<b>0.39</b>
74.	A. Chiriac, <b>L. E. Nita</b> , S. Cimmino, C. Silvestre, D. Duraccio, Magnetic field effect upon albumin immobilization, <i>Journal of optoelectronics and advanced materials</i> , 9(11), 3431-3434 (2007).	<b>0.39</b>
75.	<b>L. E. Nita</b> , A. P. Chiriac, I. Neamtu, Study of magnetic field influence upon a binary interpenetrated polymeric complex formation, <i>Journal of optoelectronics and advanced materials</i> , 10(11), 2902-2907 (2008).	<b>0.39</b>
76.	<b>L.E. Nita</b> , A.P. Chiriac, M. Nistor, I. Stoica, Biomaterials based on 2-hydroxyethyl methacrylate: the Influence of the initiator type, <i>Rev. Roum. Chim.</i> 56(5), 537 (2011)	<b>0.37</b>
77.	<b>L.E. Nita</b> , 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 characterisation, <i>Rev. Roum. Chim.</i> 58(2,3) 137-143 (2013).	<b>0.37</b>
78.	A. P. Chiriac, M. T. Nistor, <b>L. E. Nita</b> , 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, <i>Rev. Roum. Chim.</i> 58(2, 3) 129-136 (2013).	<b>0.37</b>
79.	A. P. Chiriac, M. T. Nistor, <b>L. E. Nita</b> , An investigation on multi-layered hydrogels based on poly(N, N-dimethylacrylamide - co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane), <i>Rev. Roum. Chim.</i> , 59 (11, 12), 1059-1068 (2014)	<b>0.37</b>
80.	A. P. Chiriac, M. T. Nistor, <b>L. E. Nita</b> , I. Neamtu, In-situ gelling system based on Pluronic F127 and poly(vinyl alcohol) for smart biomaterials, <i>Rev. Roum. Chim.</i> 60, 787-795 (2015).	
81.	N. Tudorachi, W. Knauer, A. P. Chiriac, <b>L. E. Nita</b> , I. Neamtu, M.T. Nistor, Upon thermal characterization of a magnetic composite in relation with the poly(succinimide)-b-poly(ethylene glycol) shell properties, <i>Rev. Roum. Chim.</i> 61 (6, 7) 565-573 (2016).	<b>0.37</b>
82.	A. P. Chiriac, <b>L. E. Nita</b> , L. Mititelu-Tartau, I. Neamtu, N. Tudorachi, A. Diaconu, Using an alternating magnetic field for covering a metallic stent with a new magnetic composite, <i>Rev. Roum. Chim.</i> 61, 345-353 (2016).	<b>0.37</b>
83.	V. Balan, M. Asandulesa, E. Butnaru, A.P. Chiriac, N. Tudorachi, <b>L.E. Nita</b> , I. Neamtu, A. Diaconu, 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, <i>Rev. Roum. Chim.</i> 61, 689-698 (2016).	<b>0.37</b>
84.	<b>L. E. Nita</b> , A. P. Chiriac, A. Diaconu, M. Asandulesa, Preparation of protein - polyelectrolyte complex by self-assembling, <i>Rev. Roum. Chim.</i> 62, 2, 99-106 (2017).	<b>0.37</b>
85.	A. Diaconu, A. P. Chiriac, N. Tudorachi, <b>L. E. Nita</b> , I. Neamtu, Investigation concerning the possibilities for the deposition of magnetic nanoparticles onto a metallic stent, <i>Rev. Roum. Chim.</i> 62, 677-685 (2017).	<b>0.37</b>
86.	A.G. Rusu, A. Diaconu, N. Tudorachi, M. Asanulesa, <b>L. E. Nita</b> , M. Cristea, I. Neamtu, A. P. Chiriac, Comparative studies regarding the impact of the synthesis possibilities on	<b>0.37</b>

	the physico-chemical properties of poly(n, n-dimethylaminoethyl methacrylate), <i>Rev. Roum. Chim.</i> 62, 399-412 (2017)	
87.	A. P. Chiriac, A.G. Rusu, N. Tudorachi, L. E. Nita, A. Diaconu, D. Rusu, I. Neamtu, M. Asanulesa, VM Chiriac, Investigation of a self-assembled nanogel structure bearing spiroacetal moieties and cholesterol as low molecular mass gelator, <i>Rev. Roum. Chim.</i> 63, 673(2018)	<b>0.37</b>

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