

LISTA LUCRĂRILOR ȘTIINȚIFICE

1. Teza de doctorat

Titlul: *Polielectroliți cationici obținuți prin reacții de polimerizare condensativă*
Instituția: Academia Română, Institutul de Chimie Macromoleculară "Petru Poni", Iași
Conducător Științific: C.S.I Dr. Florin Popescu

2. Cărți publicate

2.1. Titlul: *Polielectroliți în soluție: Aplicații ca floculanți*

Autor: **Luminita Ghimici**

Ed. Tehnopress, Iasi 2010, ISBN 978-973-702-726-9

2.2. Titlul: *Polielectroliți în soluție: Proprietăți de transport*

Autor: **Luminita Ghimici**

Ed. StudIS Iași 2017, ISBN 978-606-775-645-6

3. Capitole în cărți

3.1. Stela Dragan, **Luminita Ghimici**, Fl. Popescu

"Counterion Binding on Cationic Polyelectrolytes with Cationic Groups in the Main Chain" in Progress in Ion Exchange - Advances and Application, Edited by A. Dyer, M. J. Hudson, P. A. Williams, Spec. Publ. - Royal Soc. Chem. 1997, 196, p. 62-68

3.2. Stela Dragan, Mariana Cristea, Demetra Dragan, A. Airinei, **Luminita Ghimici**

"New Aspects on the Interaction between Polycation/Dye Complexes and Polyanions" in Advances in Ion Exchange for Industry and Research, Edited by P. A. Williams and A. Dyer, Spec. Publ. - Royal Soc. Chem. 1999, 39, p. 120-127

3.3. Ecaterina Stela Dragan, **Luminita Ghimici**

"Nitrogen Based Synthetic Polycations. Syntheses and Applications" in Focus on Ionic Polymers, E.S. Dragan (Ed.) Research Signpost, Trivandrum, India, 2005, ISBN 81-7736-285-2, Chapter 1, p. 1- 48

3.4. **Luminita Ghimici**, Ecaterina Stela Dragan

"Transport Properties of Soluble Polyelectrolytes" in Focus on Ionic Polymers, E.S. Dragan (Ed.), Research Signpost, Trivandrum, India 2005, ISBN 81-7736-285-2, Chapter 2, p. 49-92

3.5. **Luminita Ghimici**, Adrian Dinu, Ecaterina Stela Dragan,

"Application of polyelectrolytes in phase separation processes" in New Trends in Ionic (Co) Polymers and Hybrids, E. S. Dragan (Ed.) Nova Science Publishers, US, 2007, ISBN 160021-611-0, Chapter 2, p. 31-64

3.6. Simona Morariu, Cristina Eliza Brunchi, **Luminita Ghimici**, Maria Bercea

"Viscometric behavior of polymer solutions" in Functional Polymeric Materials Designed for Hi-Tech Applications, M. Nechifor (Ed.) Transworld Research Network, Trivandrum, India, 2010, ISBN 978-81-7895-448-6, Chapter 5, p. 85-107

3.7. Cristina Eliza Brunchi, **Luminita Ghimici**

"Xanthan: Physicochemical properties and application in separation processes" in Polymer materials with smart properties, M. Bercea (Ed.), Nova Science Publishers, Inc., New York, 2013, ISBN 978-1-62808-876-2, Chapter 7, p.151- 187

4. Articole publicate în extenso în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

4.1. Stela Dragan, **Luminita Ghimici**, Adrian Carpov, Elena Chirica, Maria Maftai
Polielectroliti cationici X. Contributii la sinteza coagulantilor macromoleculari prin polimerizarea condensativa a epichlorhidrinei cu dimetilamina si o amina polifunctionala
Materiale Plastice 27 (1990) 72-78 (FI: 1.248)

4.2. Stela Dragan, **Luminita Ghimici**, Gheorghe Stoica, Virgil Barboiu,
Reactive Ionic Oligomers. I. Precursors for Water Soluble Cationic Polymers Obtained by Reaction of Dimethylamine and Epichlorohydrin
J. Macromol. Sci. Chem. A28 (1991) 283-296 (FI: 1.057)

4.3. Stela Dragan, **Luminita Ghimici**
Cationic Polyelectrolytes XI. Polymers with Quaternary N-atoms in the Main Chain Obtained by Condensation Polymerization of Epichlorohydrin with Amines
Macromol. Mater. Eng. (Angew. Macromol. Chem.) 192 (1991) 199-211 (FI: 2.69)

4.4. Stela Dragan, **Luminita Ghimici**, Virgil Barboiu
Reactive Ionic Oligomers. II. Oligomers of Ammonium Quaternary Salts Obtained from the Reaction of Diethylamine with Epichlorohydrin
J. Macromol. Sci.-Pure Appl. Chem. A30 (1993) 35-40 (FI: 1.057)

4.5. Tudor Lupascu, Ion Dranca, Maria Sandu, Stela Dragan, **Luminita Ghimici**
Study of Some Flocculating Processes with Cationic Polyelectrolytes
Macromol. Mater. Eng. (Angew. Makromol. Chem.) 220 (1994) 11-19 (FI: 2.69)

4.6. Stela Dragan, **Luminita Ghimici**
Cationic Polyelectrolytes XII. PEG-Precursors for Water Soluble Cationic Polymers with Tertiary N-atoms in the Main Chain
Macromol. Mater. Eng. (Angew. Makromol. Chem.) 215 (1994) 107- 119 (FI: 2.69)

4.7. **Luminita Ghimici**, Stela Dragan, Florin Popescu
Interactions of the Low Molecular Weight Salts with Cationic Polyelectrolytes
J. Polym. Sci., Polym. Phys. Ed. 35 (1997) 2571-2581 (FI: 2.499)

4.8. Stela Dragan, Ioan Dranca, **Luminita Ghimici**, Mariana Cristea, Gheorghe Fundueanu, Tudor Lupascu
Thermal Behaviour of Some Cationic Polyelectrolytes and Polyelectrolyte Complexes
Eur. Polym. J. 34 (1998) 733-737 (FI: 3.741)

4.9. **Luminita Ghimici**, Florin Popescu
Determination of Intrinsic Viscosity for some Cationic Polyelectrolytes by Fedors Method
Eur. Polym. J. 34 (1998) 13-17 (FI: 3.741)

- 4.10.** Stela Dragan, Demetra Dragan, Mariana Cristea, A. Airinei, **Luminita Ghimici**
Polyelectrolyte Complexes. II. Specific Aspects of the Formation of Polycation /Dye/Polyanions Complexes
J. Polym. Sci. Part A: Polym. Chem. 37 (1999) 409-418 (FI: 2.588)
- 4.11.** Stela Dragan, **Luminita Ghimici**, Mariana Cristea, A. Airinei
Polyelectrolyte Complexes III. Binding characteristics of some polydentate anionic azo dyes to polycations with N, N-dimethyl-2-hydroxypropylene ammonium chloride units in the main chain
Macromol. Chem. Phys. (Acta Polym.) 50 (1999) 260-266 (FI: 2.5)
- 4.12.** Stela Dragan, **Luminita Ghimici**
Viscometric Behaviour of of Some Hydrophobically Modified Cationic Polyelectrolytes
Polymer 42 (2001) 2887-2891 (FI: 3.483)
- 4.13.** **Luminita Ghimici**, I. Dranca, Stela Dragan, T. Lupascu, A. Maftuleac
Hydrophobically Modified Cationic Polyelectrolytes
Eur. Polym. J. 37 (2001) 227-231 (FI: 3.741)
- 4.14.** **Luminita Ghimici**, Stela Dragan
Transport and Flocculation Properties of some cationic polyelectrolytes
Environ. Eng. Manag. J. 1 (2002) 333-340 (FI: 1.334)
- 4.15.** **Luminita Ghimici**, Stela Dragan,
Behaviour of Cationic Polyelectrolytes upon Binding of Electrolytes: Effects of Polycation Structure, Counterions and Solvent Nature
Colloid Polym. Sci. 280 (2002) 130-134 (FI: 1.967)
- 4.16.** Stela Dragan, A. Maftuleac, Ioan Dranca, **Luminita Ghimici**, Tudor Lupascu
Flocculation of Montmorillonite by some Hydrophobically Modified Polycations Containing Quaternary Ammonium Salt Groups in the Backbone
J. Appl. Polym. Sci. 84 (2002) 871-876 (FI: 1.901)
- 4.17.** Stela Dragan, Marcela Mihai, **Luminita Ghimici**
Viscometric study of poly(sodium 2-acrylamido-2-methylpropanesulfonate) and two random copolymers
Eur. Polym. J. 39 (2003) 1847-1854 (FI: 3.741)
- 4.18.** **Luminita Ghimici**, Ecaterina Avram
Viscometric study of quaternized polysulfones
J. Appl. Polym. Sci. 90 (2003) 465-469 (FI: 1.901)
- 4.19.** Stela Dragan, **Luminita Ghimici**, Christine Wandrey
Charge Density, Solvent Polarity and Counterion Nature Effects on the Solution Properties of Some Polycations
Macromol. Symp. 211 (2004) 107-119 (FI: 0.47)
- 4.20.** Maria Cazacu, **Luminita Ghimici**, Stela Dragan
Ionic Organic/Inorganic Materials. II. New Linear and Crosslinked Poly(ethylene oxide)-Based Ionomers by Quaternization with Chloroalkyl-Functionalized Siloxanes
J. Polym. Sci. Part A: Polym. Chem. 42 (2004) 3720 -3728 (FI: 2.588)

- 4.21. Luminita Ghimici**, Marieta Nichifor, Ecaterina Stela Dragan
Electrical conductivity of Some Polymers with Quaternary Ammonium Salts in the Chain. Effects of Charge Density and Concentration
E-polymers conferences, IUPAC MACRO 2004, Paris, www.e-polymers.org/paris, L2780
(FI: 0.949)
- 4.22.** Ecaterina Stela Dragan, Marcela Mihai, J. Schauer, **Luminita Ghimici**
PAN Composite Membrane with Different Solvent Affinities Controlled by Surface Modification Methods
J. Polym. Sci.: Polym. Chem. 43 (2005) 4161-4171 (FI: 2.588)
- 4.23. Luminita Ghimici**, Marieta Nichifor
Electrical Conductivity of Some cationic Polysaccharides. I. Effects of Polyelectrolyte Concentration, Charge Density, Substituent at the Ionic Group, and Solvent Polarity
J. Polym. Sci. Part B: Polym. Phys. 43 (2005) 3584-3590 (FI: 2.499)
- 4.24.** Ecaterina Stela Dragan, **Luminita Ghimici**, Marcela Mihai
Pollutants Removal with Synthetic Polycations and Their complexes
Environ. Eng. Manag. J. ICEEM/01 5 (4) (2006) 625-634 (FI: 1.334)
- 4.25. Luminita Ghimici**, Marieta Nichifor
Transport Properties of Some Cationic Polysaccharides 2. Charge density effect
J. Colloid. Interf. Sci. 302 (2006) 589-596 (FI: 5.091)
- 4.26.** Marcela Mihai, **Luminita Ghimici**, Ecaterina Stela Dragan
Application of polycations in separation processes
Environ. Eng. Manag. J. 6(5) (2007) 419-423 (FI: 1.334)
- 4.27. Luminita Ghimici**, Marieta Nichifor
Flocculation properties of some cationic polysaccharides
J. Macro. Sci., Part B 48(1) (2009) 106-113 (FI: 1.005)
- 4.28. Luminita Ghimici**, Marieta Nichifor
Transport Properties of Some Cationic Amphiphilic Polysaccharides. Effects of Side Chain Length and Solvent Polarity
J. Appl. Polym. Sci. 111(6) (2009) 3031-3038 (FI: 1.901)
- 4.29. Luminita Ghimici**, Maria Bercea, Ecaterina Stela Dragan
Rheological Properties of Some Cationic Polyelectrolytes
J. Macro. Sci., Part B 48(5) (2009) 1011-1024 (FI: 1.005)
- 4.30. Luminita Ghimici**
Viscosity of some cationic polyelectrolyte and its potential use as flocculant in solid/liquid separation process
J. Macro. Sci., Part B 48(6) (2009) 1252-1262 (FI: 1.005)
- 4.31. Luminita Ghimici**, Simona Morariu, Marieta Nichifor
Separation of clay suspension by ionic dextran derivatives
Sep. Purif. Technol. 68 (2009) 165-171 (FI: 3.927)

- 4.32. Luminita Ghimici**, Marieta Nichifor, Bernhard Wolf
Ionic Polymers Based on Dextran: Hydrodynamic Properties in Aqueous Solution and Solvent Mixtures
J. Phys. Chem B 113 (2009) 8020-8025 (FI: 3.146)
- 4.33. Luminita Ghimici**, Maria Bercea, Ecaterina Stela Dragan
Solution Properties of Some Cationic Polyelectrolytes
Materiale Plastice 46 (1) (2009) 26-31 (FI: 1.248)
- 4.34. Luminita Ghimici**, Marieta Constantin, Gheorghe Fundueanu
Novel biodegradable flocculating agents based on pullulan
J. Hazard. Mater. 181 (2010) 351-358 (FI: 6.434)
- 4.35. Luminita Ghimici**, Marieta Nichifor
Novel biodegradable flocculating agents based on cationic amphiphilic polysaccharides
Biores. Technol. 101 (2010) 8549-8554 (FI: 5.807)
- 4.36.** Marieta Nichifor, Magdalena Cristina Stanciu, **Luminita Ghimici**, Bogdan.C. Simionescu
Hydrodynamic properties of some cationic amphiphilic polysaccharides in dilute and semi-dilute aqueous solutions
Carbohydr. Polym. 83 (2011) 1887-1894 (FI: 5.158)
- 4.37. Luminita Ghimici**, Marieta Constantin,
Novel thermosensitive flocculating agent based on pullulan
J. Hazard. Mater. 192 (2011) 1009-1016 (FI: 6.434)
- 4.38. Luminita Ghimici**, Marieta Nichifor, Andreas Eich, Bernhard A. Wolf
Intrinsic viscosities of polyelectrolytes in the absence and in the presence of extrasalt: Consequences of the stepwise conversion of dextran into a polycation
Carbohydr. Polym. 87 (2012) 405- 410 (FI: 5.158)
- 4.39. Luminita Ghimici**, Marieta Nichifor
Flocculation by cationic amphiphilic polyelectrolyte: Relating efficiency with the association of polyelectrolyte in the initial solution
Colloids Surf. A: Physicochem. Eng. Aspects 415 (2012) 142- 147 (FI: 2.829)
- 4.40.** Marieta Constantin, Ionela Asmarandei, Valeria Harabagiua, **Luminita Ghimici**, P. Ascenzi, Ghe. Fundueanu
Removal of anionic dyes from aqueous solutions by an ion-exchanger based on pullulan microspheres
Carbohydr. Polym. 91 (2013) 74- 84 (FI: 5.158)
- 4.41. Luminita Ghimici**, Cristina-Eliza Brunchi
Titanium dioxide separation from water by PEG and Pluronic type polymers
Sep. Purif. Technol. 103 (2013) 306-312 (FI: 3.927)
- 4.42. Luminita Ghimici**, Marieta Nichifor
Separation of TiO₂ particles from water and water/methanol mixtures by cationic dextran derivatives
Carbohydr. Polym. 98 (2013) 1637- 1643 (FI: 5.158)

- 4.43.** Cristina-Eliza Brunchi, **Luminita Ghimici**
PEG in Aqueous Salt Solutions. Viscosity and Separation Ability in a TiO₂ Suspension
Rev. Roum. Chim. 58 (2-3) (2013) 183-188 (FI: 0.37)
- 4.44.** **Luminita Ghimici**, Marieta Nichifor
Flocculation performance of different cationic amphiphilic dextran derivatives in zirconium silicate suspension
Sep. Purif. Technol. 133 (2014) 254–259 (FI: 3.927)
- 4.45.** **Luminita Ghimici**., Dana Mihaela Suflet
Phosphorylated polysaccharide derivatives as efficient separation agents for zinc and ferric oxides particles from water
Sep. Purif. Technol. 144 (2015) 31–36 (FI: 3.927)
- 4.46.** **Luminita Ghimici**, Marieta Nichifor,
Ionic dextran derivatives for removal of Fastac 10 EC from its aqueous emulsions
Carbohydr. Polym. 134 (2015) 46–51 (FI: 5.158)
- 4.47.** **Luminita Ghimici**, Marieta Constantin
The separation of the pyrethroid insecticide Fastac 10 EC by cationic pullulan derivatives,
React. Funct. Polym. 95 (2015) 12–18 (FI: 2.975)
- 4.48.** **Luminita Ghimici**
Cationic polyelectrolyte induced separation of some inorganic contaminants and their mixture (zirconium silicate, kaolin, K- feldspar, zinc oxide) as well as of the paraffin oil from water
J. Environ. Manag. 169 (2016) 1-7 (FI: 4.005)
- 4.49.** **Luminita Ghimici** . Cristina- Eliza Brunchi , Alina Diaconu
Removal of some commercial pesticides containing α -Cypermethrin, Deltamethrin and Mancozeb as active ingredients by chitosan solution
Cellulose 23 (2016) 3837-3846 (FI: 3.809)
- 4.50.** **Luminita Ghimici**, M. Nichifor
Flocculation characteristics of a biodegradable polymer based on dextran,
Sep. Purif. Technol. 194 (2018) 48-55 (FI: 3.927)
- 4.51.** **Luminita Ghimici**, M. Nichifor
Dextran derivatives application as flocculants
Carbohydr. Polym. 190 (2018) 162–174 (FI: 5.158)
- 4.52.** **Luminita Ghimici**, M. Constantin
Removal of the commercial pesticides Novadim Progress, Bordeaux mixture and Karate Zeon by pullulan derivatives based flocculants
J. Environ. Manag. 218 (2018) 31-38 (FI: 4.005)
- 4.53.** **Luminita Ghimici**, I.A., Dinu
Removal of some commercial pesticides from aqueous dispersions using as flocculant a thymine-containing chitosan derivative.
Sep. Purif. Technol. 209 (2019) 698-706 (FI: 3.927)

6. Articole publicate în extenso în reviste de specialitate din țară recunoscute de către CNCSIS (B+)

6.1. Stela Dragan, Luminita Ghimici, Aurelia Grigoriu, Diana Coman

Binding Characteristics of Acid Violet 90 and Direct Red 80 to Polycations with Quaternary Ammonium Salt Group in the Main Chain

Bul. I. P. Iasi, Tom XLIV(XLVIII) fasc. 1-2 (1998) 89-96

6.2. Stela Dragan, Luminita Ghimici

Combined Chemical Cold Plasma Treatment For Optimizing Nonwoven Textile Filter Materials Applied on Gaseous And Aqueous Effluents IV. Cationic Polymers With Antistatic Properties

Bul. I. P. Iasi, Tom XLIV(XLVIII) fasc 3-4, (1998) 109-114

6.3. Aurelia Grigoriu, Diana Coman, Stela Dragan, Luminita Ghimici

Stabilization of anionic dyes through the utilization of polycations I. Improvement of the resistance of dyeings with direct dyes on proteic fibers

Bul. I. P. Iasi, Tom XLV(IL) fasc 3-4 (1999) 57- 60

6.4. Aurelia Grigoriu, Diana Coman, Stela Dragan, Luminita Ghimici

“Stabilization of anionic dyes through the utilization of polycations.II Resistence improvement of dyeings with acid dyes on proteic fibers”

Bul. I. P. Iasi, Tom XLVI(L) fasc 1-2 (2000) 85- 90

6.5. Luminita Ghimici, Stela Dragan

Polyelectrolytes in Salt Solutions. Viscosity and Electrical Conductivity

Ann. West Univ. Tim. Ser. Chim. 10 (2001) 645-652

6.6. Stela Dragan, Simona Schwarz, Luminita Ghimici

Polycation/Azo Dye Multilayers Builtup in the Presence of Neutral Salts

Ann. West Univ. Tim. Ser. Chim. 10 (2001) 627-636

6.7. Stela Dragan, Marcela Mihai, Luminita Ghimici

Viscometric study of poly(sodium 2-acrylamido-2-methylpropanesulfonate)

Bul. I. P. Iasi, Tom XLIX (LIII) fasc 5, (2003) 379 -384

6.8. Luminita Ghimici, Stela Dragan

Polyelectrolyte Solutions. Electrolytic Conductivity and Activity

Ann. of West Univ. Tim. Ser. Chem. 12 (3) (2003) 893-900

6.9. Marcela Mihai, Luminita Ghimici, Stela Dragan

Composite membranes prepared by layer-by-layer self-assembly technique

Ann. of West Univ. Tim. Ser. Chem. 12 (3) (2003) 927-934

7. Articole publicate în alte reviste de specialitate din țară

7.1. Stela Dragan, Cornelia Luca, Luminita Ghimici, Virgil Barboiu

Cationic Oligomers and Polymers

Synthetic Polymers J. 1 (1994) 353-381

7.2. Luminita Ghimici, Stela Dragan, Florin Popescu
Soluble Polyelectrolytes I. Thermodynamic Properties
Roum. Chem. Quart. Rev. 3 (1995) 173-186

7.3. Luminita Ghimici, Stela Dragan, Florin Popescu
Soluble Polyelectrolytes II. Viscosity and Unperturbed Dimensions
Roum. Chem. Quart. Rev. 3 (1995) 291-302

8. Articole/studii publicate în extenso în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate

8.1. Stela Dragan, **Luminita Ghimici**, A. Airinei, Mariana Cristea, Aurelia Grigoriu
Relation Between Polycation Structure and the Stability of Polycation/Dye Complexes
Polymerwerkstoffe'98 - Merßeburg, Germany, 1998, pg. 599 -607

8.2. Stela Dragan, Mariana Cristea, **Luminita Ghimici**
Complecsi ai poli(clorurii de N,N-dimetil-2-hidroxiopropilenamoniu)cu compusi mic- si macromoleculari
Conferinta Internationala de stiinta si Ingineria Materialelor "BRAMAT 99", Brasov, 1999, **Buletin stiintific**, vol. IV. p. 254-259

8.3. Stela Dragan, **Luminita Ghimici**
Influenta structurii policationului asupra legarii contraionilor
Conferinta Internationala de stiinta si Ingineria Materialelor "BRAMAT 99", Brasov, 1999, **Buletin stiintific**, vol. IV, pg. 260- 265

8.4. Stela Dragan, Simona Schwarz, **Luminita Ghimici**
Polycation/Azo Dye Self- Assembled Multilayers
12th Romanian International Conference on Chemistry and Chemical Engineering, Bucuresti, 2001, vol. **Macro**, pg. 8-14

8.5. Ecaterina Stela Dragan, Maria Cazacu, **Luminita Ghimici**
Ionic Organic/Inorganic Materials
CD-ROM- 21st Annual Meeting of the Polymer Processing Society, PPS-21, Leipzig, Germania, 2005, ISBN 3-86010-784-4, 7 pg.

8.6. Luminita Ghimici, Marieta Nichifor, Ecaterina Stela Dragan
Dilute solution properties of some hydrophobically modified cationic polyelectrolytes
Al VIII-lea Simpozion de Chimia Coloizilor si Suprafetelor, Galati, 2005, **Volum de lucrari** ISBN 973-8316-84-7, pg. 61-64

8.7 Marcela Mihai, Ecaterina Stela Dragan, M. Bezdadea, D. Axinte Zavastin, **Luminita Ghimici**
Surface modification of membrane properties by alternate of oppositely charged polyelectrolytes adsorption
Al VIII-lea Simpozion de Chimia Coloizilor si Suprafetelor, Galati, 2005, **Volum de lucrari** ISBN 937-8316-84-7, pg. 79-82

8.8 Luminita Ghimici, Ecaterina Stela Dragan
Polyelectrolyte solutions. Counterion dissociation as a function of the medium properties
Proceedings of 3rd ICCE, Kuwait,, 2007, 8 pg.

8.9. Ecaterina Stela Dragan, Adrian Ionel Dinu, Luminita Ghimici

Specific interactions between strong polycations and azo dyes as a function of polycation and dye structure

Proceedings of 3rd ICCE, Kuwait, 2007, 7 pg.

8.10. Luminita Ghimici

Hydrodynamic Properties of Some cationic Polyelectrolytes

Proceedings UEFISCU Exploratory Workshop New trends in Complex Fluids Modeling –CFM, Bran, Romania, 2009, p. 78-80

8.11. M. Badiger, M. Bercea, J. Eckelt, A. Eich, Y. Guo, N.R. Gupta, A. Knopf, Luminita Ghimici, M. Nichifor, F. Samadi, A.D. Schuler, B.A. Wolf, A.Zhang

Intrinsic viscosities of polyelectrolytes in the absence and in the presence of salt

Conference Dynamic of Complex Fluids, Iasi. 2011, p. 17-20

9. Articole/studii publicate în extenso în volumele unor manifestări științifice naționale**9.1. Stela Dragan, Mariana Cristea, A. Airinei, Luminita Ghimici**

Legarea coloranților de tip Ponceau în complecși polielectrolitici

A XXII-a Sesiune de comunicări științifice, 1996, Olanesti, Vâlcea, Vol. II, p. 807-812

9.2. Stela Dragan, Luminita Ghimici

Polielectroliti cationici cu catene laterale nepolare

A XXIV-a Sesiune de comunicări științifice, 1998, Caciulata-Vâlcea, Vol. II, p. 621-626

10. Brevete de invenție**10.1. Stela Dragan, Luminita Ghimici, Gh. Stoica**

Procedeu pentru obținerea clorurilor de N,N-dialchil bis(3-cloro-2-hidroxipropil) amoniu

Brevet RO Nr. 99433, 1990

10.2. Stela Dragan, Luminita Ghimici

Procedeu de obținere a polimerilor cationici cu grupe de sare cuaternara de amoniu

Brevet RO Nr. 99636, 1990

10.3. Stela Dragan, Luminita Ghimici

Polielectroliti cationici cu proprietati floculante si procedeu de obținere a acestora

Brevet RO Nr. 104256, 1994

10.4. Stela Dragan, Mariana Cristea, Luminita Ghimici

Procedeu de îndepărtare a coloranților din apă

RO: Nr. 96-02371, 1996

10.5. Ghe. Roman, Stela Dragan, Luminita Ghimici

Procedeu de îndepărtare a impuritatilor din apele uzate

Brevet RO Nr. 115949, 27 iul 2000

10.6 Diana Coman, Aurelia Grigoriu, Stela Dragan, Luminita Ghimici

Procedeu de retratare a materialelor textile vopsite cu coloranți direcți

Ro Nr. 118314, 28.11.2003

10.7. Diana Coman, Aurelia Grigoriu, Ecaterina Stela Dragan, Luminita Ghimici

Procedeu de retratare vopsirilor cu coloranți direcți pe fibre celulozice

Ro Nr. 118809, 30.11.2004

11. Proiecte de cercetare-dezvoltare-inovare pe bază de contract/grant

11.1. Granturi/contracte cu finanțare din străinătate

11.1.1. Tema generala: *“Sinteza unor substante antistatice, hidrofobe si ignifuge destinate aplicarii pe materiale filtrante netesute activate prin tratamente in plasma”*
subtema: *“Sinteze de polimeri cationici pentru tratamente polifunctionale”*

Contract de Cercetare stiintifica nr. S 14 din 27-ian 1998, colaborare cu Universitatea Tehnica “Gh. Asachi”, Iasi in cadrul programului INCO-COPERNICUS ERBIC 15-CT 960723

colectiv: Stela Dragan-responsabil, **Luminita Ghimici**

Valoarea: incasata **17000 EUR**

11.2. Granturi și contracte în țară

11.2.1. *Polimeri sintetici solubili in apa*

Contract de grant nr. 3040/1997 (M.C.T)

Colectiv: Stela Dragan - responsabil de grant, **Luminita Ghimici**, Mariana Cristea

Durata: 1997-1998; Beneficiar: ICMPP; Valoarea incasata: **2700 RON**

1.2.2. *Nanoarhitecturi autoasamblate electrostatic*

Contract de grant nr. 5052/17.11.1999

Colectiv : Stela Dragan - director de grant, Mariana Cristea, **Luminita Ghimici**, Daniel Timpu

Durata: 1999-2001; Beneficiar: ICMPP; Valoarea incasata: **5750 RON**

11.2.3. *Nanoinginerie aplicata la obtinerea unor materiale reactive cu arhitectura controlata*

Contract de grant nr. 32953/22.06.2004, cod CNCSIS. 242 finantat de Ministerul Educatiei si Cercetarii

Colectivul: Stela Dragan-director grant, **Luminita Ghimici**, Mariana Cristea, Marcela Mihai, Maria Valentina. Dinu, Florin Bucatariu, Ionel Adrian Dinu

Beneficiar: ICMPP; Durata: 2004-2006; Valoarea: **39400 RON**

11.2.4. *Tehnologii de epurare avansata pentru recircularea efluentilor industriali - RIWA-TECH*

Subcontract de finantare Nr. 2883P/03.10.2005/CEEX

Colectiv: Ecaterina Stela Dragan-director grant, **Luminita Ghimici**, Marcela Mihai

Durata: 2005-2008; Valoare incasata: **78958 RON**

11.2.5 *Retea stiintifica integrata pentru dezvoltarea materialelor polimere multifunctionale bazate pe cunoastere*

Contract nr. 40(510) /03.10. 2005/CEEX

ICMPP - coordonator

Colectiv : V. Harabagiu, responsabil + 37 membri

Durata 2005-2007; Valoare incasata: **460670 RON**

11.2.6. *Auto-asamblari sau asamblari mixte la scara nanometrica ale sistemelor care contin polielectroliti amfifili in solutii diluate, concentrate sau in geluri.*

Contract de grant nr. 55/27.04.2006; Cod CNCSIS 303.

Colectiv: M. Nichifor- director grant, G. Mocanu, **Luminita Ghimici**, Ghe. Fundueanu-Constantin, M. Fundueanu-Constantin, M. Cristea, D. Mihai, G. Morariu, G. Nistor, I.M. Cojocareanu

Durata: 2006-2008; Valoare incasata: **111000 RON**

11.2.7. Tehnologii si nanomateriale de functionalizare bioactiva tip bariera a suprafetelor textile
Proiect PNII, contract nr. 72-148 Coordonator ICECHIM, Bucuresti:

Colectiv: M. Nichifor- responsabil partener ICMPP, G. Mocanu, M. Constantin, Ghe. Fundueanu, **Luminita Ghimici**, C. Stanciu

Durata: 2008-2011; Valoare incasata: **121026 RON**

11.2.8. Materiale polimere cu proprietati inteligente

Proiect de cercetare exploratorie, Planul National de Cercetare, Dezvoltare si Inovare, Proiect IDEI nr. PN-II-ID-PCE-2011-3-0199, contract nr. 300/05.11.2011

Colectiv: M. Bercea (director), S. Morariu, A. Chiriac, **Luminita Ghimici**, C.-E. Brunchi, L.M. Gradinaru

Durata: 2011-2016; Valoare incasata: **1500000 RON**

11.2.9. Micele si vezicule nanostructurate din copolimeri bloc amfifili cu polizaharide drept blocuri hidrofille. O directie versatila pentru obtinerea de noi biomateriale

Proiect PN-II-ID-PCE-2011-3-0622, contract 299/5.10.2011

Colectiv: M. Nichifor –director proiect; G. Mocanu, **Luminita Ghimici**, M.C. Stanciu, M. Cotofana

Durata: 2011-2016; Valoare incasata: **1500.000 lei**

11.2.10. Impactul acumularii metalelor grele asupra mediului si productivitatii ecosistemelor forestiere: tehnologii non-conventionale de remediere a padurilor contaminate (METAFORE)

Parteneriat, PN-II-PT-PCCA-2013-4-1149, contract 107/2014

Colectiv: Manuela Murariu- Responsabil partener ICMPP, I. Bunia, M. Mihai, **Luminita Ghimici**, D.M. Suflet

Durata: 2014-2017; Valoare incasata Institutul de Chimie Macromolecular „P.Poni”: **540000 lei**

11.2.11. Noi oligomeri cationici amfifili ca alternative sintetice pentru peptide antimicrobiene si/sau ca biocizi de uz extern

Proiect PN-III-P4-ID-PCE-2016-0519

Colectiv: M.Nichifor (director proiect), G. Mocanu, **Luminita Ghimici**, M. C. Stanciu, C. G. Tuchilus, A. C. Humelnicu, R. Zonda, M. Cotofana

Durata: 2017-2019; Valoare incasata 2017: **291.596 RON**

12. Conferinte

12.1. Stela Dragan, Cornelia Luca, **Luminita Ghimici**, Virgil Barboiu

Cationic Oligomers and Polymers

Premiere Seminaire Franco-Roumain sur les Polymeres, Iasi , Romania, septembrie 1993

12.2. Stela Dragan, **Luminita Ghimici**, A. Airinei, Mariana Cristea, Aurelia Grigoriu

Relation Between Polycation Structure and the Stability of Polycation/Dye Complexes

Polymerwerkstoffe'98 - Merßeburg, Germany, September. 1998

12.3 Stela Dragan, Simona Schwarz, **Luminita Ghimici**

Polycation/Azo Dye Self-Assembled Multilayers

12th Romanian International Conference on Chemistry and Chemical Engineering,

,Bucuresti, Romania, September, 2001

12. 4. Stela Dragan, Simona Schwarz, Luminita Ghimici*Polycation/Azo Dye Multilayers Buildup in the Presence of Neutral Salts***Academic Days of Timisoara**, Timisoara, Romania, May 23 - 25, 2001**12. 5. Stela Dragan, Luminita Ghimici, Christine Wandrey***Charge density, counterion nature and solvent polarity effects on the solution properties of some polycations***9th Dresden Polymer Discussion: Polyelectrolytes**, Meissen, Germany, March, 2003**12. 6. Ecaterina Stela Dragan, Maria Cazacu, Luminita Ghimici***Ionic Organic/Inorganic Materials***21st Annual Meeting of the Polymer Processing Society, PPS-21**, Leipzig, Germany, June 19-23, 2005**12. 7. M. Badiger, M. Bercea, J. Eckelt, A. Eich, Y. Guo, N.R. Gupta, A. Knopf, Luminita****Ghimici, M. Nichifor, F. Samadi, A.D. Schuler, B.A. Wolf, A. Zhang***Intrinsic viscosities of polyelectrolytes in the absence and in the presence of salt***Conference Dynamic of Complex Fluids**, Iasi, Romania, May 5-7, 2011**12. 8. Luminita Ghimici***Interactions of cationic polysaccharides with oppositely charged particles: application to flocculation of clay suspensions***Frontiers in Macromolecular and Supramolecular Science Fourth Cristofor I. Simionescu Symposium**, Iasi, Romania, June 2011**12.9. Mariana Cristea, Stela Dragan, Demetra Dragan, Luminita Ghimici, B. C. Simionescu***Complecsi interpolielectrolitici sintetici***Zilele Academice Iesiene**, 9 - 12 octombrie 1997**12.10. Stela Dragan, Luminita Ghimici, Mariana Cristea, Demetra Dragan, A. Airinei***Aspecte specifice ale interactiunii policationilor continând unitati de clorura de N,N - Dimetil - 2- hidroxipropilenamoniu in catena macromoleculara cu coloranti anionici***Simpozionul " Polielectroliti liniari neliniari"**, Iasi, septembrie 1999**12.11. Luminita Ghimici** Ecaterina Stela Dragan, Marieta Nichifor*Studiul conductometric al unor polielectroliti cationici in solutie apoasa***A XXVIII-a Conferinta Nationala de Chimie**, Calimanesti-Caciulata, Valcea, 6-8 octombrie 2004**12.12. Luminita Ghimici**, Marieta Nichifor, Ecaterina Stela Dragan*Solutii diluate de polielectroliti: comportare conductometrica***Zilele Academice Iesene**, 26-29 septembrie 2007**13. Comunicari****13.1. Stela Dragan, Luminita Ghimici***Contribution to the Synthesis of Cationic Polyelectrolytes with the Nitrogen Atom in the Main Chain***Al XVIII-lea Congres al Academiei Româno-Americane de Stiinte si Arte**, Chisinau, Republica Moldova, 1993

13.2. A. Grigoriu, V. Blancu, D. Macocinschi, O. Marinca, V. Barboiu, S. Dragan, Luminita Ghimici, G. Ioanid, E. C`du, M. Nichifor, C. Sirghie

Combined chemical/plasma treatments of nonwoven filter materials applied on gaseous effluents. II Antistatic Finishes

Conferinta stiintifice cu participare Internationale EMF'98 ("Eficienta energetica in inactul asupra mediului"), Sozopol, Bulgaria, 17-20 septembrie 1998

13.3. Stela Dragan, Luminita Ghimici

Influenta structurii policationului asupra legarii contraionilor

Conferinta Internationala de stiinta si Ingineria Materialelor "BRAMAT 99", Brasov, Romania, 3-5 Februarie, 1999

13.4. Stela Dragan, Mariana Cristea, Luminita Ghimici

Complecsi ai poli(clorurii de N,N-dimetil-2-hidroxipropilenamoniu) cu compusi mic- si macromoleculari

Conferinta Internationala de stiinta in Ingineria Materialelor "BRAMAT 99", Brasov, Romania, 3-5 Februarie, 1999

13.5. Luminita Ghimici, Stela Dragan

Transport and Flocculation Properties of some cationic polyelectrolytes

The First International Conference on Environmental Engineering and Management, ICEEM/ 01, Iasi, Romania, September 26-28, 2002

13.6. Stela Dragan, Luminita Ghimici

Interpolyelectrolyte Complexes as Colloidal Dispersion

11th Physical Chemistry Conference with International Participation, Timisoara, Romania, September, 2003

13.7. Luminita Ghimici, Marieta Nichifor, Ecaterina Stela Dragan

Dilute solution properties of some hydrophobically modified cationic polyelectrolytes

Al VIII-lea Simpozion de Chimia Coloizilor si Suprafetelor, Galati, 2-4 iunie, 2005

13.8. Marcela Mihai, Ecaterina Stela Dragan, M. Bezdadea, D. Axinte Zavastin, Luminita Ghimici

Surface modification of membrane properties by alternate adsorption of oppositely charged polyelectrolytes

Al VIII-lea Simpozion de Chimia Coloizilor si Suprafetelor, Galati, 2-4 iunie, 2005.

13.9. Luminita Ghimici, Stela Dragan

Polyelectrolyte Solutions. Electrolytic Conductivity and Activity

11th Physical Chemistry Conference with International Participation, Timisoara, Romania, September, 2003

13.10. Ecaterina Stela Dragan, Luminita Ghimici, Marcela Mihai

Pollutants Removal with Synthetic Polycations and Their complexes

3rd International Conference Environmental Engineering and Management ICEEM 03, Iasi, Romania, September 21-24, 2006

13.11. Marcela Mihai, Luminita Ghimici, Ecaterina Stela Dragan

Application of polycations in separation processes

4th International Conference on Environmental Engineering and Management ICEEM/04, Iasi, Romania, September, 2007.

- 13.12. Luminita Ghimici, Bercea Maria, Ecaterina Stela Dragan**
Solution properties of some cationic polyelectrolytes
15th Edition of the Romanian International Conference on Chemistry and Chemical Engineering (RICCCE XV), Sinaia, Romania, September 2007
- 13.13. Marcela Mihai, Luminita Ghimici, Ecaterina Stela Dragan**
Nonstoichiometric complex nanoparticles based on chitosan as flocculants for kaolin
15th Edition of the Romanian International Conference on Chemistry and chemical Engineering (RICCCE XV), Sinaia, Romania, September 2007
- 13.14. Luminita Ghimici, Ecaterina Stela Dragan**
Polyelectrolyte solutions. Counterion dissociation as a function of the medium properties
3rd Conference for the International Congress of Chemistry and Environment, Kuwait, November 18 - 20, 2007
- 13.15. Marcela Mihai, Ecaterina Stela Dragan, Luminita Ghimici**
Chitosan and its positive nonstoichiometric polyelectrolyte complexes as flocculants for fine suspensions
3rd Conference for the International Congress of Chemistry and Environment, Kuwait, November 18 - 20, 2007
- 13.16. Ecaterina Stela Draga, A.I. Dinu, Luminita Ghimici**
Specific interactions between strong polycations and azo dyes as a function of polycation and dye structure
3rd Conference for the International Congress of Chemistry and Environment, Kuwait, November 18 - 20, 2007
- 13.17 Ecaterina Stela Dragan, Luminita Ghimici, Maria Cazacu**
Synthesis of novel hydrophilic organic/inorganic hybrids and their characterization
3rd Conference for the International Congress of Chemistry and Environment, Kuwait, November 18 - 20, 2007
- 13.18. Magdalena Cristina Stanciu, Marieta Nichifor, Luminita Ghimici, B.C. Simionescu**
Viscosity and Fluorescence Studies Of Some Cationic Amphiphilic Polysaccharides
European Student Conference, Almeria, Spain, July 15-18, 2009,
- 13.19. Magdalena Cristina Stanciu, Marieta Nichifor, Luminita Ghimici**
Hydrodynamic properties of some cationic amphiphilic polysaccharides in dilute and semi-dilute aqueous solutions
Dynamics of Complex Fluids, Iasi, Romania, May 5-7, 2011
- 13.20 Luminita Ghimici, Marieta Nichifor**
Interaction of clay suspension with cationic polyelectrolytes based on dextran
The 5th International Conference "Ecological Chemistry – 2012", Chisinau, March 2- 3, 2012
- 13.21. Stela Dragan, Luminita Ghimici, A.Carpov**
Contributii la sinteza polielectrolitilor cationici cu activitate floculanta prin reactia de polimerizare condensantiva a epiclorigidrinei cu alchilamine polifunctionale
A II-a Sesiune de Comunicari Stiintifice, Calimanesti, octombrie 1989

13.22. Stela Dragan, Virgil Barboi, **Luminita Ghimici**, Gh. Stoica
Oligomeri reactivi ionici din reactia dietilaminei cu epichlorhidrina
Zilele Academice Iesene, 1990

13.23. Stela Dragan, Mariana Cristea, Ignat Poinescu, **Luminita Ghimici**, Anton Airinei,
Cornelia Luca
Relatii intre structura chimica si morfologia copolimerilor macroporosi cu grupe nitril si
proprietati schimatoare de ioni obtinute din acestia
Zilele Academice Iesene, noiembrie 1992

13.24. Tudor Lupascu, Ion Dranca, Maria Sandu, Stela Dragan, **Luminita Ghimici**
Studiul proceselor de floclare cu ajutorul polielectrolitilor cationici
Zilele Academice Iesene, noiembrie 1992

Data
29.10.2018

Semnatura



