# LISTA LUCRĂRILOR ŞTIINŢIFICE

## I. TEZA DE DOCTORAT

"Copolimeri şi hibrizi ionici reticulaţi. Sinteză şi proprietăţi", Conducător Ştiinţific: CSI Dr. Ecaterina Stela Drăgan, susţinută la data de 24.06.2009 la Institutul de Chimie Macromoleculară „Petru Poni", Iaşi (Diploma Doctor seria C nr. 0000085 aprobată prin Ordinul Ministrului Educației, Cercetării și Inovării nr. 6026/27.11.2009)

## II. CĂRŢI SI CAPITOLE IN CĂRŢI

### II.1. CĂRŢI

**1. Maria Valentina Dinu**, Ecaterina Stela Drăgan, "Sorbenți cu proprietăți de chelatizare a ionilor metalelor grele" Ed. Tehnopress, Iași, 2016.

### II.2. CAPITOLE IN CĂRŢI

**1. Maria Valentina Dinu**, Ecaterina Stela Drăgan, Macroporous hydrogels: preparation, properties and applications, in Hydrogels: Recent Advances, V. K. Thakur, M. K. Thakur (Eds.), Springer Verlag, Singapore, ISBN: 9789811060762, pag. 51-87, 2018.

**2.** Ionel Adrian Dinu, **Maria Valentina Dinu**, Mihai Lomora, Cornelia Palivan, Wolfgang Meier, Engineering smart polymeric materials with complex architectures for biomedical applications, in Smart Materials Integrated Design, Engineering Approaches, and Potential Applications, A. Filimon (Ed.), Apple Academic Press and CRC Press Taylor & Francis, ISBN: 978-1-77188-687-1, pag. 13-87, 2018.

**3**. Ecaterina Stela Drăgan, Ana Irina Cocarță, **Maria Valentina Dinu**, Porous Hydrogels as Carrier for Delivery of Macromolecular Drugs, in Functional Hydrogels in Drug Delivery. Key Features and Future Perspectives, U.G. Spizzirri, G. Cirillo (Eds.), CRC Press Taylor & Francis Group, Boca Raton, FL, ISBN 9781498749015, pag. 156-198, 2017.

**4.** Ecaterina Stela Drăgan, **Maria Valentina Dinu**, "Interpenetrating polymer network composite cryogels with tailored porous morphology and sorption properties" In: Reichelt S. (eds) Affinity Chromatography. Methods in Molecular Biology, vol. 1286. Humana Press, New York, NY. ISBN 978-1-4939-2447-9, pag. 239-252, 2015.

**5. Maria Valentina Dinu**, Ecaterina Stela Drăgan, "Biopolymers-zeolites composites as biosorbents for separation processes" in Advanced Separations by Specialized Sorbents CRC Press Taylor & Francis Group, Boca Raton, FL, ISBN 9780429076091, pag. 145-175, 2014.

**6.** Ecaterina Stela Drăgan, **Maria Valentina Dinu**, "Interpenetrating polymer network composite hydrogels and their applications in separation processes" in Advanced Separations by Specialized Sorbents, CRC Press Taylor & Francis Group, Boca Raton, FL, ISBN 9780429076091, pag. 285-313, 2014.

**7.** Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Marcela Mihai "Separations by multicomponent ionic systems based on natural and synthetic polycations" in Ion Exchange and Solvent Extraction: A Series of Advances CRC Press Taylor & Francis Group, Boca Raton, FL, pag. 233-291, 2010.
**8.** Cristina Doina Vlad, **Maria Valentina Dinu**_"Metode de caracterizare a (co)polimerilor reticulati" in (Co)polimeri Reticulati Obtinuti prin Polimerizare in Suspensie" Editura Pim – Iasi, ISBN 978-606-520-202-3,pag. 43-82, 2008.
**9. Maria Valentina Dinu**, Ecaterina Stela Drăgan, "Synthesis and applications of some organic chelating sorbents" in New Trends in Ionic (Co)polymers and Hybrids, Editura Nova Science Publishers, NY, SUA, pag. 65-89, 2007.

## III. ARTICOLE ŞTIINŢIFICE

### III.1 Articole publicate în extenso în reviste de specialitate de circulaţie internaţională recunoscute (reviste cotate ISI)

| Nr. Crt. | Autor/Articol/Revista | FI (2020) |
|---|---|---|
| 1 | Ecaterina Stela Drăgan, Doina Humelnicu, **Maria Valentina Dinu**, Romeo Olariu, Kinetics, equilibrium modeling, and thermodynamics on removal of Cr(VI) ions from aqueous solution using novel composites with strong base anion exchanger microspheres embedded into chitosan/poly(vinyl amine) cryogels, *Chem. Eng. J.* 330 (2017) 675-691. | **10.652** |
| 2 | Ecaterina Stela Drăgan, Ana Irina Cocartă, **Maria Valentina Dinu**, Facile fabrication of chitosan/poly(vinyl amine) composite beads with enhanced sorption of $Cu^{2+}$. Equilibrium, kinetics, and thermodynamics, *Chem. Eng. J.* 255 (2014) 659-669. | **10.652** |
| 3 | Ecaterina Stela Drăgan, Maria Marinela Lazar, **Maria Valentina Dinu**, Florica Doroftei, Macroporous composite IPN hydrogels based on poly(acrylamide) and chitosan with tuned swelling and sorption of cationic dyes, *Chem. Eng. J.* 204–206 (2012) 198-209. | **10.652** |
| 4 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Evaluation of $Cu^{2+}$, $Co^{2+}$ and $Ni^{2+}$ ions removal from aqueous solution using a novel chitosan/clinoptilolite composite: Kinetics and isotherms, *Chem. Eng. J.* 160 (2010) 157-163. | **10.652** |
| 5 | Doina Humelnicu, Maria Marinela Lazăr, Maria Ignat, Ionel Adrian Dinu, Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Removal of heavy metal ions from multi-component aqueous solutions by low-cost and eco-friendly composite sorbents with anisotropic pores, *J. Hazard. Mater.* 381 (2020) 120980. | **9.038** |
| 6 | Doina Humelnicu, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Adsorption characteristics of $UO_2^{2+}$ and $Th^{4+}$ ions from simulated radioactive solutions onto chitosan/clinoptilolite sorbents, *J. Hazard. Mater.* 185 (2011) 447-455. | **9.038** |
| 7 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Spectacular selectivity in the capture of methyl orange by composite anion exchangers with the organic part hosted by daisogel microspheres, *ACS Appl. Mater. Interfaces* 10 (2018) 20499–20511. | **8.758** |
| 8 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Daniel Timpu, | **7.539** |

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| | Preparation and characterization of novel composites based on chitosan and clinoptilolite with enhanced adsorption properties for $Cu^{2+}$, *Bioresour. Technol.* 101 (2010) 812-817. | |
| 9 | Ecaterina Stela Drăgan, Doina Humelnicu, **Maria Valentina Dinu**, Development of chitosan-poly(ethyleneimine) based double network cryogels and their application as superadsorbents for phosphate, *Carbohydr. Polym.* 210 (2019) 17-25. | **7.182** |
| 10 | Ecaterina Stela Drăgan and **Maria Valentina Dinu**, Polysaccharides constructed hydrogels as vehicles for proteins and peptides. A review, *Carbohydr. Polym.* 225 (2019)115210. | **7.182** |
| 11 | **Maria Valentina Dinu**, Ionel Adrian Dinu, Maria Marinela Lazăr, Ecaterina Stela Dragan, Chitosan-based ion-imprinted cryo-composites with excellent selectivity for copper ions, *Carbohydr. Polym.* 186 (2018) 140-149. | **7.182** |
| 12 | **Maria Valentina Dinu**, Ana Irina Cocartă, Ecaterina Stela Drăgan, Synthesis, characterization and drug release properties of 3D chitosan/clinoptilolite biocomposite cryogels, *Carbohydr. Polym.* 153 (2016) 203-211. | **7.182** |
| 13 | **Maria Valentina Dinu**, Martin Přádný, Ecaterina Stela Drăgan, Jiří Michálek, Ice-templated hydrogels based on chitosan with tailored porous morphology, *Carbohydr. Polym.* 94 (2013) 170-178. | **7.182** |
| 14 | Ecaterina Stela Drăgan, Maria Marinela Perju, **Maria Valentina Dinu**, Preparation and characterization of IPN composite hydrogels based on polyacrylamide and chitosan and their interaction with ionic dyes, *Carbohydr. Polym.* 88 (2012) 270-281. | **7.182** |
| 15 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Andrzej W. Trochimczuk, Sorption of Pb(II), Cd(II) and Zn(II) by iminodiacetate chelating resins in non-competitive and competitive conditions, *Desalination*, 249 (2009) 374-379 | **7.098** |
| 16 | **Maria Valentina Dinu**, Ionel Adrian Dinu, Sina Simone Saxer, Wolfgang Meier, Uwe Pieles, Nico Bruns, Stabilizing enzymes within polymersomes by co-encapsulation of trehalose, Biomacromolecules (2020) https://doi.org/10.1021/acs.biomac.0c00824. | **6.092** |
| 17 | Luminita Marin, Iuliana Stoica, M. Mares, **Maria Valentina Dinu**, Bogdan C. Simionescu, Mihai Bărboiu, Antifungal vanillin–imino-chitosan biodynameric films, *J. Mat. Chem. B* 1 (2013) 3353-3358. | **5.344** |
| 18 | Maria Marinela Lazar, Ionel Adrian Dinu, Mihaela Silion, Ecaterina Stela Dragan, **Maria Valentina Dinu**, Could the porous chitosan-based composite materials have a chance to a "NEW LIFE" after Cu(II) ion binding? *Int. J. Biol. Macromol.* 131 (2019) 134–146. | **5.162** |
| 19 | Irina Elena Raschip, Nicusor Fifere, Cristian Varganici, **Maria Valentina Dinu**, Development of antioxidant and antimicrobial xanthan-based cryogels with tuned porous morphology and controlled swelling features, *Int. J. Biol. Macromol.* 156 (2020) 608-620. | **5.162** |
| 20 | **Maria Valentina Dinu**, Mariana Spulber, Kasper Renggli, Dalin Wu, C. A. Monnier, A. Petri-Fink, Nico Bruns, Filling polymersomes with polymers by peroxidase-catalyzed atom transfer radical polymerization, *Macromol. Rapid Commun.* 36 (2015) 507-514. | **4.886** |

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| 21 | Cristina Doina Vlad, **Maria Valentina Dinu**, Stela Drăgan, Thermogravimetric analysis of some crosslinked acrylamide copolymers and ion exchangers, *Polym. Degrad. Stab.* 79 (2003) 153-159. | **4.032** |
| 22 | **Maria Valentina Dinu**, Murat Mehmet Ozmen, Ecaterina Stela Drăgan, Oguz Okay, Freezing as a path to build macroporous structures: superfast responsive polyacrylamide hydrogels, *Polymer* 48 (2007) 195-204. | **4.231** |
| 23 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Gabriela Lisa, Andrej Trochimczuk, Study on metal complexes of chelating resins bearing iminodiacetate groups, *Eur. Polym. J.* (2009) 45, 2119-2130. | **3.862** |
| 24 | Daniel Timpu, Liviu Sacarescu, Tudor Vasiliu, **Maria Valentina Dinu**, Geta David, Surface cationic functionalized nano-hydroxyapatite – Preparation, characterization, effect of coverage on properties and related applications, *Eur. Polym. J.* 132 (2020) 109759. | **3.862** |
| 25 | Diana Felicia Apopei, **Maria Valentina Dinu**, Andrej Trochimczuk, Ecaterina Stela Drăgan, Sorption isotherms of heavy metal ions onto semi-interpenetrating polymer network cryogels based on polyacrylamide and anionically modified potato starch, *Ind. Eng. Chem. Res.* 51 (2012) 10462-10471. | **3.573** |
| 26 | Iuliana Spiridon, Narcis Anghel, **Maria Valentina Dinu**, Stelian Vlad, Adrian Bele, Bianca Iulia Ciubotariu, Liliana Verestiuc, Daniela Pamfil, Development and performance of bioactive compounds-loaded cellulose/ collagen/ polyurethane materials, *Polymers* 12 (2020) 1191. | **3.426** |
| 27 | Silviu Jipa, Traian Zaharescu, Radu Setnescu, Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Thermal and radiochemical degradation of some PAN copolymers, *Mat. Chem. Phys.* 112 (2008) 612-616. | **3.408** |
| 28 | Ecaterina Stela Dragan and **Maria Valentina Dinu** Advances in porous chitosan-based composite hydrogels: Synthesis and applications, *React. Funct. Polym.* 146 (2020) 104372. | **3.333** |
| 29 | Ecaterina Stela Drăgan, Doina Humelnicu, **Maria Valentina Dinu**, Design of porous strong base anion exchangers bearing N,N-dialkyl 2-hydroxyethyl ammonium groups with enhanced retention of Cr(VI) ions from aqueous solution, *React. Funct. Polym.* 124 (2018) 55-63. | **3.333** |
| 30 | **Maria Valentina Dinu**, Maria Marinela Lazăr, Ecaterina Stela Drăagan, Dual ionic cross-linked alginate/clinoptilolite composite microbeads with improved stability and enhanced sorption properties for methylene blue, *React. Funct. Polym.* 116 (2017) 31-40. | **3.333** |
| 31 | **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, Composite IPN ionic hydrogels based on polyacrylamide and dextran sulfate, *React. Funct. Polym 71 (2011) 881-890.* | **3.333** |
| 32 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Heavy metals adsorption on some iminodiacetate chelating resins as a function of the adsorption parameters, *React. Funct. Polym 68 (2008) 1346-1354.* | **3.333** |
| 33 | Doina Humelnicu, Ecaterina Stela Dragan, **Maria Valentina Dinu**, A comparative study on $Cu^{2+}$, $Zn^{2+}$, $Ni^{2+}$, $Fe^{3+}$, and $Cr^{3+}$ metal ions removal by chitosan-based composite cryogels, *Molecules 25 (2020) 2664.* | **3.267** |
| 34 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Cristina Doina Vlad, Ion-exchange resins. II. Acrylamide crosslinked copolymers as precursors for some ion exchangers, *J. Appl. Polym. Sci.* 89 (2003) 2701-2707. | **2.52** |

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| 35 | Irina Elena Raschip, Oana Maria Paduraru-Mocanu, Loredana Elena Nita, **Maria Valentina Dinu**, Antibacterial porous xanthan-based films containing flavoring agents evaluated by near infrared chemical imaging technique, *J. Appl. Polym. Sci.* 137 (2020) e49111. | **2.52** |
| 36 | Ecaterina Stela Drăgan, Ecaterina Avram, **Maria Valentina Dinu**, Organic ion exchangers as beads. Synthesis, characterization and applications, *Polym. Adv. Technol.* 17 (2006) 571-578. | **2.578** |
| 37 | **Maria Valentina Dinu**, Martin Prádny, Ecaterina Stela Drăgan, J. Michálek, Morphogical and swelling properties of porous hydrogels based on poly(hydroxyethyl methacrylate) and chitosan modulated by ice-templating process and porogen leaching, *J. Polym. Res.* 20 (2013) 285-295. | **2.426** |
| 38 | **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, Porous semi-interpenetrating hydrogel networks based on dextran and polyacrylamide with superfast responsiveness, *Macromol. Chem. Phys.* 212 (2011) 240-251. | **2.335** |
| 39 | Murat Mehmet Ozmen, **Maria Valentina Dinu**, Oguz Okay, Preparation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture at subzero temperatures, *Polym. Bull.* 60 (2008) 169–180. | **2.014** |
| 40 | **Maria Valentina Dinu**, Simona Schwarz, Ionel Adrian Dinu, Ecaterina Stela Drăgan, Comparative rheological study of ionic semi-IPN composite hydrogels based on polyacrylamide and dextran sulphate and of polyacrylamide hydrogels, *Colloid Polym. Sci.* (2012) 290, 1647-1657. | **1.536** |
| 41 | Camelia Hulubei, Cristina Doina Vlad, **Maria Valentina Dinu**, New crosslinked bead-like copolymers based on N-p-carboxyphenyl-Maleimide, *High Perform. Polym.* 18 (2006) 243-253. | **1.568** |
| 42 | **Maria Valentina Dinu,** C. Hulubei, C.D. Vlad, "Poli(N-p-carboxifenil-maleimida-co-trimetilolpropan triacrilat)", *Mater. Plast.* 40 (2003) 186-189. | **1.517** |
| 43 | Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Sorption of Methylene Blue onto ionic composite hydrogels based on polyacrylamide and dextran sulfate: Kinetics, isotherms, and thermodynamics, *Sep. Sci. Technol.* 47 (2012) 1322-1333. | **1.718** |
| 44 | **Maria Valentina Dinu**, E.D. Comanita, Ecaterina Stela Drăgan, Kinetic study on heavy metals adsorption by iminodiacetate chelating resins, *Env. Eng. Manag. J.* 11 (2012) 1587-1594. | **1.186** |
| 45 | Murat Mehmet Ozmen, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Oguz Okay, Preparation of macroporous acrylamide-based hydrogels: Cryogelation under isothermal conditions, *J. Macromol. Sci. A Pure Appl. Chem.* 44 (2007) 1195 – 1202. | **1.349** |
| 46 | Diana Felicia Apopei, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Graft copolymerization of acrylonitrile onto potatoes starch by ceric ion, *Digest J. Nanomat. Biostr.* 7 (2012) 707-716. | **0.785** |

**III.2. Articole publicate în reviste de specialitate (reviste necotate ISI)**

| Nr. Crt. | Autor/Articol/Revista | |
|---|---|---|
| 1 | Irina Elena Raschip, **Maria Valentina Dinu**, Nicusor Fifere, Raluca Darie-Nita, Daniela Pamfil, Andreea Popirda, Cristian Logigan, Thermal, mechanical and water sorption properties of xanthan-based composite cryogels, *Cell. Chem. Technol.* accepted manuscript (2020). | - |
| 2 | Dana Suflet, Irina Pelin, **Maria Valentina Dinu**, Mihaela Lupu, Irina Popescu, Hydrogels based on monobasic curdlan phosphate for biomedical applications, *Cell. Chem. Technol.* 53 (2019) 897-906. | - |
| 3 | **Maria Valentina Dinu**, Ionel Adrian Dinu, Maria Marinela Lazăr, Ecaterina Stela Drăgan, Insights into the mechanism of $Cu^{2+}$ binding onto chitosan-based cryogel composites: equilibrium, kinetic and thermodynamic studies, *Cell. Chem. Technol.* (2018) 52, 181-192. | - |
| 4 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Gargh Shankar, Recent developments in composite biosorbents and their applications for wastewater treatment, Review in *Res. J. Chem. Env.* 19 (2015) 42-58. | - |
| 5 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Polysaccharide based composite sorbents and their past, present and perspective applications, Review in *Curent Green Chem.* 2 (2015) 342-353. | - |
| 6 | **Maria Valentina Dinu**, Maria Cazacu, Ecaterina Stela Drăgan, Mechanical, thermal and surface properties of polyacrylamide/dextran semi-interpenetrating network hydrogels tuned by the synthesis temperature, *Central Eur. J. Chem.* 11 (2013) 248-258. | - |
| 7 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Design, synthesis and interaction with Cu2+ ions of ice templated composite hydrogels, *Res. J. Chem. Env.* 17 (2013) 4-10. | - |
| 8 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Diana Felicia Apopei, Macroporous anionic interpenetrating polymer networks composite hydrogels and their interaction with methylene blue, Review in *Int. J. Chem.* 1 (2012) 554-575. | - |
| 9 | **Maria Valentina Dinu**, Maria Marinela Perju, Maria Cazacu, Ecaterina Stela Drăgan, Polyacrylamide-dextran polymeric networks: Effect of gel preparation temperature on their morphology and swelling properties, *Cell. Chem. Technol.* (2011) 45, 197-203. | - |
| 10 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Removal of copper ions from aqueous solution by adsorption on ionic hybrids based on chitosan and clinoptilolite, *Ion Exchange Letters* 2 (2009)15-18. | - |

**III.3. Articole publicate în extenso în reviste de specialitate din ţară recunoscute de către CNCSIS (B+)**

| Nr. Crt. | Autor/Articol/Revista | |
|---|---|---|
| 1 | **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, Properties of the ionic composite hydrogels obtained below the freezing | - |

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| | point of the reaction solutions, *Bull. Instit. Politehn.* (2011) Tom LVII (LXI), 117-125. | |
| 2 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Heavy metals on ionic composites based on chitosan, *Bull. Instit. Politehn.* (2010) Tomul LVI (LX), 171-178. | - |
| 3 | Cristina Doina Vlad, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, New polyfunctional crosslinked copolymers, *Bull. Instit. Politehn.* (2003) Tomul XLIX(LIII), 342-347. | - |

**III.4. Articole/studii publicate în extenso în volumele unor manifestări ştiinţifice internaţionale recunoscute din ţară şi din străinătate**

| Nr. Crt. | Autor/Articol/ Manifestare ştiinţifică | |
|---|---|---|
| 1 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Maria Marinela Perju, Ionic composite materials and their interactions with ionic species "Proceedings of the 1st International Conference on Methods and Materials for Separation Processes, Kudowa Zdrój, Poland (2011) 21-24. | - |
| 2 | Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Removal of cationic dyes from aqueous solutions with composite hydrogels based on polyacrylamide and dextran sulphate, Proceedings of the 1st International Conference on Methods and Materials for Separation Processes, Kudowa Zdrój, Poland (2011) 48-51. | - |
| 3 | Ecaterina Stela Drăgan, Marcela Mihai, **Maria Valentina Dinu**, Separations with composite materials based on natural and synthetic polycations, Proceedings of the XXIV Ars Separatoria, Kudowa Zdroj, Poland (2009) 41-47. | - |
| 4 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Gabriela Lisa, A. Trochimczuk, Synthesis and characterization of some metal complexes of chelating resins bearing iminodiacetate groups, Proceedings of the XXIV Ars Separatoria, Kudowa Zdroj, Poland (2009) 59-63. | - |
| 5 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, A. Trochimczuk, Removal of heavy metal ions from aqueous solutions using chelating resins with iminodiacetate groups, Proceedings of the XXIII Ars Separatoria, Torun, Poland (2008) 61-64. | - |
| 6 | Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Hybrid materials generated by the complexation of heavy metals on crosslinked organic substrates – precursors for the metal controlled release as a function of the environment, Proceedings of 3rd International Congress of Chemistry and Environment - ICCE Kuwait (2007) 151-156. | - |
| 7 | Ecaterina Stela Drăgan, Ecaterina Avram, **Maria Valentina Dinu**, "Anion exchangers. Less explored synthesis ways"– CD-ROM, 21st Annual Meeting of the Polymer Processing Society, PPS-21, Leipzig, Germania, 2005. | - |
| 8 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Cristina Doina Vlad, Porous ion exchangers with primary amine groups based on crosslinked | - |

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| | copolymers of acrylonitrile, Proceedings of Romanian International Conference on Chemistry and Chemical Engineering - RICCCE XIV, Bucharest, Romania (2005) vol. 4, 168 - 175. | |
| 9 | **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Cristina Doina Vlad, Synthesis and characterization of some ion exchangers containing primary amine groups, Proceedings of Romanian International Conference on Chemistry and Chemical Engineering - RICCCE XIV, Bucharest, Romania (2005) vol. 4, 61 - 68. | - |

## IV. BREVETE DE INVENŢIE NAŢIONALE

**IV. 1.** Ecaterina Stela Drăgan, **Maria Valentina Dinu**,
Titlul inventiei: Hibrizi ionici pentru îndepărtarea metalelor grele.
OSIM nr. A/00321/16.04.2009

## V. PROIECTE DE CERCETARE-DEZVOLTARE-INOVARE PE BAZĂ DE CONTRACT/GRANT ÎN ŢARĂ

1. Proiect de cercetare pentru stimularea tinerelor echipe independente (TE): Engineered eco-friendly biocomposites with selective chelating properties for removal and recovery of heavy metal ions from contaminated waters (https://icmpp.ro/biocomp4metirem/); Funding Agency: Executive Unit for Financing Education Higher, Research Development and Innovation (TE117/2018) Director proiect: **Maria Valentina Dinu**
2. Proiect de mobilitate: Chitosan-based cryogels with high selectivity for copper ions; Funding Agency: Executive Unit for Financing Education Higher, Research Development and Innovation (PN-III-P1-1.1-MC-2018-1398); Director proiect: **Maria Valentina Dinu**
3. Proiect de mobilitate: Chitosan-based composite cryogels: preparation, characterization and potential applications; Funding Agency: Executive Unit for Financing Education Higher, Research Development and Innovation (PN-III-P1-1.1-MC-2019-1725); Director proiect: **Maria Valentina Dinu**
4. Contract cu industria: Platinum preparation and impregnation of 4 hydrophobic catalytic supports of the type of organic copolymers between ICMPP and National Research and Development Institute for Cryogenic and Isotopic Technologies – ICSI Rm. Valcea; 2018-2019. Responsabil ICMPP: **Maria Valentina Dinu** si Maria Cazacu
5. Membru in proiectul de cercetare pentru stimularea tinerelor echipe independente (TE): Innovative eco-friendly food active packaging based on xanthan cryogels with antibacterial and antioxidant properties, TE77/2018, Director proiect: Irina Elena Raschip (https://icmpp.ro/xancryopack/)
6. Membru in proiectul de cercetare: Matrici ionice poroase cu arhitectura si responsivitate predeterminate pentru a gazdui compusi bioactivi, PN-II-ID-PCE-2011-3-0300, Director proiect: Ecaterina Stela Dragan
7. Membru in proiectul de cercetare: (Bio) compozite nanostructurate sensibile la stimuli externi, Proiect de Cercetare Exploratorie, Contract IDEI, nr. 483/2009 Director proiect: Ecaterina Stela Dragan
8. Membru in proiectul de cercetare: Membrane microbiologice si polimeri sintetici biocompatibili cu potentiale aplicatii la indepartarea metalelor grele si radioactive din

mediu (BIOMETAC), Parteneriat in domenii prioritare, Responsabil proiect ICMPP: Ecaterina Stela Dragan

9. Membru in proiectul de cercetare: Materiale hibride obtinute prin grefarea complecsilor metalici pe suporti functionalizati si aplicatiile lor in procese biomimetice - MATBIOMIMOX, proiect CEEX, Responsabil proiect ICMPP: Ecaterina Stela Dragan

10. Membru in proiectul de cercetare: Nanoinginerie aplicată în prepararea unor materiale reactive cu arhitectura controlata, GRANT nr. 242/2006 finantat de Ministerul Educatiei si Cercetarii Director proiect: Ecaterina Stela Dragan

**V. Alte lucrări şi contribuţii ştiinţifice (conferinţe, comunicări, postere prezentate la manifestări ştiinţifice).**

**V.1. CONFERINŢE PREZENTATE LA MANIFESTĂRI ŞTIINŢIFICE**

1. **Maria Valentina Dinu**, Ecaterina Stela Dragan "Macroporous Hydrogels: Preparation, Properties, and Applications" IasiCHEM 2018, Faculty of Chemistry Conference, 25-26 October 2018, Iasi.
2. Nico Bruns, Jonas Pllard, Bernadetta Gajewska, Samuel Raccio, **Maria Valentina Dinu**, Kasper Renggli, Moh Divandari "Exploring the scope of enzymatic ATRP: From controlled radical polymerization of challenging monomers to confined biocatalytic polymerizations in nanoreactors and on surfaces" 254th National Meeting and Exposition of the American-Chemical-Society (ACS) on Chemistry's Impact on the Global Economy, August 20-24, 2017, Washington, DC.
3. **Maria Valentina Dinu,** Ecaterina Stela Dragan "Metal ions sorption by cross-linked arhitectures with chelating properties" IasiCHEM 2016, Faculty of Chemistry Conference, 27-29 October 2016, Iasi.
4. **Maria Valentina Dinu**, Ecaterina Stela Dragan "Cryogels: superporous gels with remarkable features" Frontiers in Macromolecular and Supramolecular Science, the 8th "Cristofor I. Simionescu" Symposium, June 1-2, 2016, Iasi.
5. Ecaterina Stela Dragan, **Maria Valentina Dinu**, Diana Felicia Apopei "Macroporous ionic composite hydrogels with tuned swelling and sorption properties" The Fifth Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, Bucharest, 2012.
6. Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Maria Marinela Perju "Ionic composite materials and their interactions with ionic species" 1st International Conference on Methods And Materials For Separation Processes, Kudowa Zdrój, Poland, 2011.
7. Ecaterina Stela Drăgan, Marcela Mihai, **Maria Valentina Dinu**, "Separations with composite materials based on natural and synthetic polycations" XXIV Ars Separatoria, Kudowa Zdroj, Poland, 2009.
8. Oguz Okay, Murat M. Ozmen, **Maria Valentina Dinu,** Deniz Ceylan, Volcan Can "Strategies toward the synthesis of fast responsive gels with improved mechanical properties" European Polymer Congress, Portoroz, Slovenia, 2007.
9. Ecaterina Stela Drăgan, **Maria Valentina Dinu,** Ecaterina Avram "Organic Ion Exchangers: Syntheses and characterization" XII International Symposium on Physicochemical Methods of Separation, Ars Separatoria, Szklarska Poreba, Poland, 2007.

## V.2. CONFERINŢE PREZENTATE LA INSTITUTE/UNIVERSITĂŢI DE PRESTIGIU DIN STRĂINĂTATE

1. **Maria Valentina Dinu** "Strategies toward the synthesis of stimuli responsive composite gels with improved properties" University of Basel, Switzerland, 2014.
2. **Maria Valentina Dinu** "Ionic composite hydrogels with controlled arhitecture: synthesis, characterization, applications" Institute of Macromolecular Chemistry, Prague, 2012.
3. **Maria Valentina Dinu** "Specialized Sorbents for wastewater remediation" Technical University from Wroclaw, Laboratory of Polymeric Materials, Wroclaw, 03.10.2011.
4. **Maria Valentina Dinu** "Multicomponent materials based on natural and synthetic polymers" Istanbul Technical University, Turkey, 26.11.2010.

## V.3. COMUNICĂRI ORALE LA MANIFESTĂRI ŞTIINŢIFICE INTERNAŢIONALE

1. **Maria Valentina Dinu**, Ana Clara Aprotosoaie, Maria Marinela Lazăr, Ionel Adrian Dinu, Catinca Grădinaru "Chitosan-based composite cryogels: preparation, characterization and potential applications" 6th EPNOE International Polysaccharide Conference, Aveiro, Portugalia, 2019.
2. Maria Marinela Lazăr, Ionel Adrian Dinu, **Maria Valentina Dinu** "Chitosan-based cryo-composites with 3D porous morphology and selective metal ion sorption properties" 6th EPNOE International Polysaccharide Conference, Aveiro, Portugalia, 2019.
3. Maria Marinela Lazăr, Ancuta Dumitrita Tapalagă, Ionel Adrian Dinu, Irina Elena Răschip, Victor Gavriluţă, Luciana Ghiba, **Maria Valentina Dinu** "Ligand-functionalized polysaccharide-based composites as novel sorbents for removal of heavy metal ions" 10th International Conference on Environmental Engineering and Management (ICEEM10), Iaşi, România, 2019.
4. **Maria Valentina Dinu**, Ana Clara Aprotosoaie, Maria Marinela Lazăr, Ionel Adrian Dinu, Irina Elena Răschip "Novel chitosan/dextrin cryogel films embedding Thymus Vulgaris essential oil" 13th Romanian International Symposium on Cosmetic and Flavor Products - (RISCFP), Iaşi, România, 2019.
5. **Maria Valentina Dinu**, Maria Marinela Lazăr, Ecaterina Stela Drăgan, Ionel Adrian Dinu "Waste minimization in water purification processes by reusing the copper(II)-loaded biosorbents as catalysts in degradation of organic pollutants" 11th International Conference on Materials Science and Engineering - (BraMat 2019), Braşov, România, 2019.
6. Irina Elena Raschip, **Maria Valentina Dinu**, Nicusor Fifere "Optimizing the conditions for obtaining xanthan-based biomaterials using the freeze-thawing method", 11th International Conference on Materials Science & Engineering, March 13 – 16, Poiana Brasov, Romania
7. Maria Marinela Lazăr, Ionel Adrian Dinu, **Maria Valentina Dinu** "Removal of heavy metal ions from multi-component aqueous solutions by eco-friendly biocomposites" 11th International Conference on Materials Science and Engineering - (BraMat 2019), Braşov, România, 2019.
8. **Maria Valentina Dinu**, Ionel Adrian Dinu, Maria Marinela Lazăr, Ecaterina Stela Drăgan "Engineered macroporous biomaterials with tuned swelling and chelating

properties" 11th International Conference on Materials Science and Engineering - (BraMat 2019), Braşov, România, 2019.
9. Irina Elena Raschip, **Maria Valentina Dinu**, Nicusor Fifere Novel xantan-based cryogels with potential applications in food industry The 12th International Conference on Physics of Advanced Materials, September 22 – 28, Heraklion, Crete, Greece
10. Ionel Adrian Dinu, Maria Marinela Lazăr, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Macroporous copper(II)-imprinted composites as efficient catalysts for decolourisation of Methyl Orange" World Agriculture Congress - 4th World Research Journals Congress, (WRJC-2018), Timişoara, România, 2018.
11. **Maria Valentina Dinu**, Ionel Adrian Dinu, Maria Marinela Lazăr, Ecaterina Stela Drăgan "Chitosan-based cryogels with high selectivity for copper ions" World Agriculture Congress - 4th World Research Journals Congress, (WRJC-2018), Timişoara, România, 2018.
12. **Maria Valentina Dinu**, Ecaterina Stela Dragan "Removal of metal ions and dyes by polysaccharide-based composite sorbents" World Agriculture Congress, 4th World Research Journals Congress (WRJC-2018), Timisoara, 24 – 26 May 2018
13. **Maria Valentina Dinu**, Irina Elena Raschip, Nicusor Fifere "Synthesis and characterization of novel xantan-based cryogels" World Agriculture Congress 4th World Research Journals Congress (WRJC-2018), Timisoara, Romania
14. **Maria Valentina Dinu**, Irina Elena Raschip, Nicusor Fifere, Ionel Adrian Dinu, "Polysaccharide-based cryogels: preparation, characterization, and potential applications" 4th International Conference on Chemical Engineering, Iași, 31 October – 02 November 2018.
15. Maria Marinela Lazăr, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Ionic biocomposites based on renewable resources: Synthesis, characterization and their sorption properties" Congresul Internaţional al Universităţii, Apollonia, Iaşi, România, 2017.
16. **Maria Valentina Dinu**, Ana Irina Cocarta, Ecaterina Stela Dragan "Formation of porous chitosan/clinoptilolite biocomposites and their potential application as drug carriers" International Symposium of "Apollonia" University, Iasi, March 2017.
17. **Maria Valentina Dinu**, Nico Bruns, Polymer-filled polymersomes by biocatalytic atom transfer radical polymerization, 16th IUPAC International Symposium on MacroMolecular Complexes (MMC-16), Wroclaw, Poland, August 10-14, 2015.
18. Ana Irina Cocârţă, Ecaterina Stela Drăgan, **Maria Valentina Dinu** "Sorption of $Cu^{2+}$ on composite beads based on chitosan and poly(vinyl amine) XIème Colloque Franco-Roumain sur les Polymères, Pitesti, 2014.
19. Ana Irina Cocârţă, **Maria Valentina Dinu**, Magdalena Gierszewska-Druzynska, Ecaterina Stela Drăgan "Synthesis, characterization and sorption properties of composite beads based on chitosan and poly(vinyl amine)" 11th Conference on Colloid and Surface Chemistry, Iasi, 2013.
20. Ecaterina Stela Drăgan, **Maria Valentina Dinu** "Ice templated chitosan based hydrogels with tuned swelling and sorption properties" European Polymer Federation Congress, EPF, Pisa, Italy, 2013.
21. Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Diana Felicia Apopei "Design, synthesis and interaction with ionic species of ice-templated composite hydrogels" 6th International Congress of Chemistry and Environment - ICCE, Antwerp, Belgium, 2013.

22. Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Diana Felicia Apopei "Removal of ionic dyes by interpenetrated network composite cryogels" 6th International Congress of Chemistry and Environment - ICCE, Antwerp, Belgium, 2013.
23. Ecaterina Stela Drăgan, Ana Irina Cocârţă, **Maria Valentina Dinu** "Composite microspheres based on chitosan and their sorption capacity for heavy metal ions" 6th International Congress of Chemistry and Environment - ICCE, Antwerp, Belgium, 2013.
24. **Maria Valentina Dinu**, Martin Přádný, Ecaterina Stela Drăgan, Jiri Michálek "Morphology maps of ice-templated hydrogels based on chitosan" 9th International Conference on Physics of Advanced Materials, Iasi, 2012.
25. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan "Ionic composite hydrogels based on polyacrylamide and dextran sulfate as potential drug delivery systems" 7th International Conference on Nanostructured Polymers and Nanocomposites, Prague, Czech Republic, 2012.
26. Ecaterina Stela Drăgan, **Maria Valentina Dinu**, Diana Felicia Apopei "Macroporous ionic composite hydrogels with tuned swelling and sorption properties" 7th International Conference on Nanostructured Polymers and Nanocomposites, Prague, Czech Republic, 2012.
27. Ecaterina Stela Drăgan, Maria Marinela Lazăr, **Maria Valentina Dinu** "Hydrogels ioniques macroporeaux á base de polyacrylamide et de chitosane et leurs propriétés de sorption" Le Septième Colloque Franco-Roumain de Chimie Appliquée – CoFrRoCa, 2012.
28. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, "Sorption du bleu de méthylène sur hydrogels à base de polyacrylamide et sulfate de dextran" Le Septième Colloque Franco-Roumain De Chimie Appliquée – CoFrRoCa, 2012.
29. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Removal of cationic dyes from aqueous solutions with composite hydrogels based on polyacrylamide and dextran sulphate" The 1st International Conference on Methods and Materials for Separation Processes, Kudowa Zdrój, Poland, 2011.
30. **Maria Valentina Dinu**, Maria Marinela Perju, Diana Felicia Apopei, Ecaterina Stela Drăgan "Ionic composite hydrogels and their interactions with ionic species" Seminar Focus on Functionalized Materials, Institute of Chemical Technology, Prague, Czech Republic, 2011.
31. Luminita Marin, **Maria Valentina Dinu**, Elena Perju, Andrei Zabulica, Bogdan C. Simionescu, Synthèse et activité antimicrobienne des bases Schiff obtenues à partir de chitosane et de vanilline Xème Colloque Franco-Roumain sur les Polymères, Douai, Franţa, 2011.
32. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, "Hydrogels composites à base de polymères naturels et polyacrylamide" Xème Colloque Franco-Roumain sur les Polymères, Douai, Franţa, 2011.
33. Ecaterina Stela Drăgan, Maria Marinela Perju, **Maria Valentina Dinu** "Ionic IPN composite hydrogels based on polyacrylamide and chitosan" 5th Asia-Europe Symposium on Processing and Properties of Reinforced Polymers, Dresden, Germany, 2011.
34. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan "Ionic composite hydrogels based on polyacrylamide and dextran sulfate" 5th Asia-Europe Symposium on Processing and Properties of Reinforced Polymers, Dresden, Germany, 2011.

35. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan "Macroporous composite hydrogels based on synthetic and natural polymers" Bioactive/Biocompatible Polymeric Materials, Spring Training Course, Zabrze, Poland, 2011.
36. **Maria Valentina Dinu**, Maria Marinela Perju, Maria Cazacu, Ecaterina Stela Drăgan "Synthesis and characterization of novel semi-interpenetrating polymer network hydrogels based on polyacrylamide and dextran" The 14th International Symposium on Cellulose Chemistry and Technology, Iasi, 2010.
37. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, „Kinetics, equilibrium and thermodynamic studies on adsorption of $Cu^{2+}$, $Co^{2+}$ and $Ni^{2+}$ by chitosan-based composites" XXV Ars Separatoria – Toruń, Poland 2010.
38. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Gabriela Lisa, Andrej W. Trochimczuk "Synthesis and characterization of some metal complexes of chelating resins bearing iminodiacetate groups" XXIV Ars Separatoria, Kudowa ZdróJ, Poland, 2009.
39. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Gabriela Lisa "Heavy metal complexes of chelating resins bearing IDA ligand" The International Conference on Materials Science and Engineering, BRAMAT, Brasov, 2009.
40. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Andrej Trochimczuk "Removal of heavy metal ions from aqueous solutions using chelating resins with iminodiacetate groups" XXIII Ars Separatoria, Torun, Polonia, 2008.
41. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Reactive primary amine groups attached to crosslinked copolymers as beads and their morphology" Sixth International Conference of the Chemical Societies of the South-Eastern European Countries-ICOSECS-6, Sofia, Bulgaria, 2008.
42. Ecaterina Stela Drăgan, **Maria Valentina Dinu** "Hybrids materials generated by the complexation of heavy metals on crosslinked organic substrates – precursors for the metal controlled release as a function of the environment" 3rd International Congress of Chemistry and Environment - ICCE, Kuwait, 2007.
43. **Maria Valentina Dinu**, Murat Ozmen, Ecaterina Stela Drăgan, O. Okay "Macroporous Ionic hydrogels. Cryogelation under Isothermal Conditions" The 5th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 2007.
44. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Adsorption properties of some chelating ion exchange resins containing iminodiacetate groups" The 5th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 2007.
45. **Maria Valentina Dinu** "Superfast responsive macroporous polyacrylamide hydrogels" Workshop on "Linear and nonlinear functional polymers", Iasi, 2006.
46. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Cristina Doina Vlad "Porous ion exchangers with primary amine groups based on crosslinked copolymers of acrylonitrile" International Conference on Chemistry and Chemical Engineering - RICCCE XIV Bucharest, 2005.

## V.4. COMUNICĂRI ORALE LA MANIFESTĂRI ŞTIINŢIFICE NAŢIONALE

1. Maria Marinela Lazăr, Doina Humelnicu, Ionel Adrian Dinu, **Maria Valentina Dinu** "Efficient heavy metal removal from industrial photo-etching wastewaters by ion-imprinted cryogels" 3rd Edition IasiCHEM, Faculty of Chemistry Conference, Iaşi, România, 2019.

2. Maria Marinela Lazăr, Ancuta Dumitrita Tapalagă, **Maria Valentina Dinu**, Ionel Adrian Dinu, Crio-compozite pe bază de chitosan pentru îndepartarea selectivă a ionilor metalici din soluţii apoase multicomponente, 27th Edition, Progresses in the Science of Organic and Macromolecular Compounds – ZAI, Iaşi, România, 2019.
3. Ionel Adrian Dinu, Maria Marinela Lazăr, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Reusing of copper(II)-loaded macroporous composite materials based on chitosan as catalysts in oxidative degradation of Methyl Orange" "Al. I. Cuza" University Days, Iaşi, România, 2018.
4. Maria Marinela Lazăr, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Efficient removal of cationic dye from aqueous solution using low-cost ionic biocomposite: Sorption and reusability studies" "Al. I. Cuza" University Days, Iaşi, România, 2017.
5. Maria Marinela Lazăr, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Alginate/clinoptilolite composite microspheres with enhanced sorption properties for Methylene Blue", Zilele Universităţii "Alexandru Ioan Cuza", Conferinţa Facultăţii de Chimie, Iaşi, România, 2016.
6. Diana Felicia Apopei, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Criogeluri compozite pe bază de poliacrilamidă şi amidon sau amidon modificat şi capacitatea lor de sorbţie" Zilele Facultatii de Inginerie Chimica si Protectia Mediului, Ed. A VIII-a "Materiale si procese inovative" Iasi, 2011.
7. **Maria Valentina Dinu**, Marinela Perju, Ecaterina Stela Drăgan "Indepartarea albastrului de metilen din solutii apoase prin sorbtia pe hidrogeluri compozite pe baza de poliacrilamida si dextran sulfat" Zilele Facultatii de Inginerie Chimica si Protectia Mediului Editia a VIII-a "Materiale si procese inovative" Iasi, 2011.
8. **Maria Valentina Dinu**, Maria Marinela Perju, Diana Felicia Apopei, Ecaterina Stela Drăgan "Semi-IPN composite hydrogels based on polysaccharides and polyacrylamide" Workshop Tendinţe în sinteza şi caracterizarea materialelor avansate pentru aplicaţii în biologie şi medicină, Timişoara, 2011.
9. **Maria Valentina Dinu**, Doina Humelnicu, Ecaterina Stela Drăgan "Chitosan-based composites as biosorbents for heavy metals removal" Zilele Facultatii De Inginerie Chimica si Protectia Mediului Editia A VII-A "90 de Ani de la Nasterea Academicianului Cristofor Simionescu" Iasi, 2010.
10. Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Design of novel porous hydrogels by a combination of semi-interpenetrating polymer networks and cryogelation techniques" Zilele Facultatii De Inginerie Chimica si Protectia Mediului Editia A VII-A "90 de Ani de la Nasterea Academicianului Cristofor Simionescu" Iasi, 2010.
11. Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Synthesis and characterization of some novel hydrogels based on dextran and polyacrylamide" A XXXI-a Conferinţă Naţională de Chimie, Ramnicu Valcea, 2010.
12. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Adsorbtia metalelor grele pe compozite ionice pe baza de chitosan" Zilele Facultăţii de Inginerie Chimică si Protectia Mediului ediţia a VI-a "Noi frontiere în chimie şi inginerie chimică" Iasi, 2009.
13. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Noi compozite ionice pe baza de chitosan si clinoptilolit", Zilele Universitatii "Al. I. Cuza", Iasi, 2009.
14. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Sinteza si caracterizarea unor noi compozite ionice pe baza de chitosan si zeolit (clinoptilolit)" Zilele Academice Iesene, Iasi, 2009.

15. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Complexarea cationilor metalici pe substraturi organice reticulate" Zilele Academice Iesene, Iasi, 2007.
16. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, C.D. Vlad "Sinteza unor noi rasini chelat cu grupe iminodiacetat" Zilele Academice Iesene, Iasi, 2005.
17. Cristina Doina Vlad, **Maria Valentina Dinu**, Camelia Hulubei "Poli(N(p-carboxifenil)-maleimida-co-trimetilolpropan triacrilat). Sinteza si proprietati" Zilele Academice Iesene, Iasi, 2002.

## V.5. POSTERE

1. Ana Clara Aprotosoaie, **Maria Valentina Dinu**, Maria Marinela Lazăr, Catinca Grădinaru, Ionel Adrian Dinu, Irina Elena Răschip "Polysaccharide-based cryogel sponge-like films embedding essential oils with potential applications in biomedicine" Congresul Internațional Pregătim Viitorul Promovând Excelența, Universitatea „Apollonia", Iași, 2020.
2. Irina Elena Raschip, Nicusor Fifere, **Maria Valentina Dinu** "Innovative xanthan-based biomaterials possessing antimicrobial activity" International Symposium of "Apollonia" University, Iasi, February 2020
3. Doina Humelnicu, Ionel Adrian Dinu, Maria Marinela Lazăr, **Maria Valentina Dinu** "Removal of heavy metal ions by aminopolycarboxylic acid functionalized chitosan-based composite sorbents" 3rd Edition IasiCHEM, Faculty of Chemistry Conference, Iaşi, România, 2019.
4. Maria Marinela Lazăr, Ana Clara Aprotosoaie, **Maria Valentina Dinu**, Irina Elena Răschip "Antioxidant and antimicrobial properties of chitosan-based cryogel films embedding Thymus Vulgaris essential oil" 3rd Edition IasiCHEM, Faculty of Chemistry Conference, Iaşi, România, 2019.
5. **Maria Valentina Dinu**, Nico Bruns, Ionel Adrian Dinu, Wolfgang Meier "Stabilized enzyme-loaded polymersomes as great tools for biocatalytic conversions" 16th IUPAC International Symposium on MacroMolecular Complexes (MMC-16), Wroclaw, Poland, August 10-14, 2015.
6. Ionel Adrian Dinu, Jason T. Duskey, Anya Car, **Maria Valentina Dinu**, Cornelia Palivan, Wolfgang Meier Self-Assembled nanocarriers based on amphiphilic diblock copolymers containing photo-labile moieties FBPS'15 11th International Symposium on Frontiers in Biomedical Polymers Riva del Garda, Italy, July 8-11, 2015
7. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan "Swelling and morphological properties of semi-IPN hydrogels based on polyacrylamide and either dextran or dextran sulfate" 7th International Conference on Nanostructured Polymers and Nanocomposites, Prague, Czech Republic, 2012.
8. Diana Felicia Apopei, **Maria Valentina** Dinu, Ecaterina Stela Drăgan "Semi-IPN a base de l'amidon natif ou modifié et polyacrylamide. préparation et la capacité de sorption d'ions metalliques" Le septième Colloque Franco – Roumain de chimie appliquée, Bacau, Roumanie, 2012.
9. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Study on heavy metals sorption by ionic composites" 1st International Conference on Methods and Materials for Separation Processes, Kudowa Zdrój, Poland, 2011.
10. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Semi-interpenetrated ionic hydrogels based on chitosan and polyacrylamide", The 1st International Conference on Methods and Materials for Separation Processes , Kudowa Zdrój, Poland, 2011.

11. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan, M. Mende, S. Schwarz "The rheological behavior of freeze-thawed hydrogels based on polyacrylamide and dextran sulfate" Dynamics of Complex Fluids, Iassy, Romania, 2011.
12. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Utilizarea hidrogelurilor de tip reţea polimeră semi-interpenetră şi interpenetrată pe bază poliacrilamidă şi chitosan în studii de adsorbţie a unor specii ionice" Progrese în Ştiinţa Compuşilor Organici şi Macromoleculari, Zilele Academice Ieşene, Iaşi, România, 2011.
13. **Maria Valentina Dinu**, Maria Marinela Perju, Ecaterina Stela Drăgan "Rheological properties of the ionic composite hydrogels obtained below the freezing point of the reaction solutions" Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a VIII-a, "Noi frontiere în chimie şi inginerie chimică", 17-18 Noiembrie, Iaşi, România, 2011.
14. Ecaterina Stela Drăgan, **Maria Valentina Dinu** "Novel composites based on chitosan and natural zeolites with enhanced adsorption properties for heavy metal ions" Polymer Networks Group Meeting, Goslar, Germany, 2010.
15. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, A. Trochimczuk "Application of iminodiacetate chelating resins for removal of $Pb^{2+}$, $Cd^{2+}$ and $Zn^{2+}$ in non-competitive and competitive conditions" XXV International Symposium on Physicochemical Methods of Separation, Torun, Poland, 2010.
16. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Adsorption thermodynamic parameters of $Cu^{2+}$, $Co^{2+}$ and $Ni^{2+}$ from aqueous solutions by a novel chitosan-based composite" The14$^{th}$ International Conference of Physical Chemistry, Bucharest, Romania, 2010.
17. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Novel semi-interpenetrated ionic hydrogels based on chitosan and polyacrylamide" A XXXI-a Conferinţă Naţională de Chimie, Râmnicu Vâlcea, România, 2010.
18. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Comportarea la umflare a hidrogelurilor pe bază de poliacrilamidă şi dextran" Sesiunea de comunicări ştiinţifice organizată în cadrul Zilelor Universităţii "Al. I. Cuza", Iaşi, România, 2010.
19. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Influenţa gradului de reticulare asupra proprietăţilor hidrogelurior pe bază de poliacrilamidă şi dextran sulfat" Sesiunea de comunicări ştiinţiifice organizată în cadrul Zilelor Universităţii "Al. I. Cuza", Iaşi, România, 2010.
20. Maria Marinela Perju, **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Hidrogeluri macroporoase pe bază de polimeri naturali şi poliacrilamidă cu viteză de răspuns rapidă" Zilele Facultăţii de Inginerie Chimică şi Protecţia Mediului, Ediţia a VII-a, "90 de Ani de la Naşterea Academicianului Cristofor Simionescu", Iaşi, România, 2010.
21. Ecaterina Stela Drăgan, **Maria Valentina Dinu**, D. Timpu "Ionic composites based on chitosan and clinoptilolite" 8th International Conference on Advanced Polymers via Macromolecular Engineering – APME, Dresden, Germania, 2009.
22. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, "Heavy metals adsorption on some ionic hybrids based on chitosan and zeolite" XXIV Ars Separatoria, Kudowa ZdróJ, Polonia, 2009.
23. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, G. Lisa "Formarea si caracterizarea unor complecsi ai metalelor grele pe baza de rasini chelat" Zilele

Facultăţii de Inginerie Chimică si Protectia Mediului ediţia a VI-a "Noi frontiere în chimie şi inginerie chimică", 2009.

24. **Maria Valentina Dinu**, Murat M. Ozmen, Ecaterina Stela Drăgan, O. Okay "Macroporous hydrogels prepared at subzero temperatures" Sixth International Conference of the Chemical Societies of the South-Eastern European Countries-ICOSECS-6, Sofia, Bulgaria, 2008.

25. **Maria Valentina Dinu**, Ecaterina Stela Drăgan, Andrej Trochimczuk "Heavy metal ion uptake properties of some iminodiacetate chelating resins" Polymer Networks Group Conference, Larnaca, Cipru, 2008.

26. **Maria Valentina Dinu**, Murat Ozmen, Ecaterina Stela Drăgan, Oguz Okay "Superfast responsive macroporous hydrogels with microscale controlled architecture" First Cristofor I. Simionescu Symposium on "Frontiers in Macromolecular Science", Iasi, Romania, 2008.

27. **Maria Valentina Dinu**, Murat M. Ozmen, Ecaterina Stela Drăgan, Oguz Okay "Synthesis of macroporous hydrogels from frozen monomer solutions under various experimental conditions", European Polymer Congress, Slovenia, 2007.

28. **Maria Valentina Dinu**, Ecaterina Stela Drăgan "Synthesis and characterization of some macroporous ion exchangers", Polymeric Materials, Halle/Saale, Germania, 2006.

Data,

06.07.2020

CSII Dr. Maria Valentina Dinu