

First name: **Ecaterina Stela**

Family name: **DRAGAN**

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Experience : **senior scientist, 51 years** “Petru Poni” Institute of Macromolecular Chemistry of Iasi

Present Position: CSI, **Head of the “M. Dima” Functional Polymers Department**

Competences /Expertise: **Polymer Chemistry**

Research domains: **Synthesis and characterization of ionic polymers; Porous ionic nano- and microstructured materials; Separations by ion exchangers and composites; Smart composite hydrogels (cryogels).**

Articles (scientific papers –187 ISI articles, 14 book chapters ; 4 Edited books (Taylor and Francis ; Nova Science Publishers); more than 170 International/National Oral Communication); 37 Romanian patents; Individual impact factor: > 120; Hirsh index, h = 31

1. **Dragan, E.S., Humelnicu, D.; Dinu M.V. 2019.** Development of chitosan and poly(ethylene imine) based double network cryogels and their application as superadsorbents for phosphates, *Carbohydr. Polym.* **210**, 17-25, **2019, IF = 6.044**; ISSN: 0144-8617
2. **Dragan, E.S., Dinu, M.V.** 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**, 20499–20511, **2018, IF = 8.456**, ISSN: 1944-8244
3. **Dragan, E.S., Humelnicu, D., Dinu, M.V. 2018.** 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**, 55-63, **IF = 3.074**; ISSN: 1381-5148
4. **Dragan, E.S., Apopei Loghin, D.F. 2018.** Novel composite biosorbents based on starch of different botanical origins grafted with PAN immobilized in chitosan cryobeads efficient in the removal of Cu²⁺, Ni²⁺, and Co²⁺ ions, *Int. J. Biolog. Macromol.* **120**, 1872-1883, **IF = 4.784**, 0141-8130
5. **Dragan, E.S., Humelnicu, D., Dinu, M.V., Olariu, R.I. 2017.** 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) cryogel, *Chem. Eng. J.* **330**, 675-691, **IF = 8.355**; ISSN 1385-8947
6. **Dragan E.S., Loghin Apopei D.F., Cocarta A.I. 2014.** Efficient sorption of Cu²⁺ by composite chelating sorbents based on potato starch-graft-polyamidoxime embedded in chitosan beads, *ACS Appl. Mater. & Interfaces* **6**: 16577–16592, **IF = 8.456**, ISSN: 1944-8244.
7. **Dragan E.S., Cocarta, A.I., Dinu, M.V. 2014.** Facile fabrication of chitosan/poly(vinyl amine) composite beads with enhanced sorption of Cu²⁺. Equilibrium, kinetics, and thermodynamics, *Chem. Eng. J.* **255**, 659-669, **IF = 8.355**; ISSN 1385-8947.
8. **Dragan, E.S., Apopei-Loghin, D.F. 2013.** Enhanced removal of Methylene Blue from aqueous solutions by semi-IPN composite cryogels with anionically modified potato starch entrapped in PAAm matrix. *Chem. Eng. J.*, **234**: 211-222, **IF = 8.355**, ISSN 1385-8947.
9. **Dragan, E.S., Dinu, M.V.,** Advances in porous chitosan-based composite hydrogels: Synthesis and applications, *React. Funct. Polym.*, **IF = 3.074**; ISSN: 1381-5148, **accepted 25.09.2019**
10. **Dragan, E.S., Dinu, M.V., Timpu, D. 2010.** Preparation and characterization of novel composites based on chitosan and clinoptilolite with enhanced adsorption properties for Cu²⁺, *Bioresour. Technol.* **101**, 812-817, **IF = 6.669**, ISSN 0960-8524.

Research Grants selected from 10 research grants as Grant Director or Partner Director:

1. **Exploratory Research Projects, IDEAS: “Porous Ionic Matrices with Tailored Architectures and Responsiveness to Host Bioactive Compounds”, 2012-2015; <http://dragan300.weebly.com>, Director.**
2. **Exploratory Research Projects, IDEAS, 2008-2011, “Nanostructured biocomposites responsive at external stimuli”, Proiect de Cercetare Exploratorie, Director**
3. **Partnership PNII Project, 2008-2011, “Microbiological membranes and biocompatible synthetic polymers with potential applications to releasing heavy and radioactive metals from the environment”, Partner Director.**