

INSTITUTUL DE CHIMIE MACROMOLECULARĂ	
" PETRU PONI " - IASI	
INTRARE	Nr. 5450
IESIRE	
Ziua 17	luna 11 anul 2023

ANEXA 6

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII ȘTIINȚIFICE DIN
PROGRAMUL DE STUDII DOCTORALE**

Nume: Croitoriu

Prenume: Alexandra

1. **Lucrări publicate :**

- în reviste cotate ISI

Lucrări pe tema tezei

1. **Alexandra Croitoriu**, Loredana E. Nita, Alina G. Rusu, Florica Doroftei, Liliana Verestiuc, Co-assembled peptides hierarchically oriented for supramolecular gel formation, *Rev. Roum. Chim.*, 2021, 66(5), 449–458. doi: [10.33224/rrch.2021.66.5.08](https://doi.org/10.33224/rrch.2021.66.5.08) (FI 0,5)
2. **Alexandra Croitoriu**, Loredana Elena Niță, Aurica P. Chiriac, Alina Gabriela Rusu, Maria Bercea, New Physical Hydrogels Based on Co-Assembling of Fmoc–Amino Acids. *Gels*. 2021; 7(4):208. doi:[10.3390/gels7040208](https://doi.org/10.3390/gels7040208) (FI 4,6)
3. **Alexandra Croitoriu**, Alina Gabriela Rusu, Alina Ghilan, Maria Bercea, Loredana Elena Nita, Aurica P. Chiriac, New Fmoc-amino acids/peptides-based supramolecular gels obtained through co-assembly process: preparation and characterization, *Polymers*, 2022, 14(16), 3354. doi:[10.3390/polym14163354](https://doi.org/10.3390/polym14163354) (FI 5,0)
4. Loredana Elena Nita, **Alexandra Croitoriu**, Alexandru M. Serban, Maria Bercea, Alina G. Rusu, Alina Ghilan, Maria Butnaru, Liliana Mititelu-Tartau, Aurica P. Chiriac, New Hydrogels Based on Agarose/Phytigel and Peptides, *Macromol Biosci*, 2023, e2200451. doi: [10.1002/mabi.202200451](https://doi.org/10.1002/mabi.202200451) (FI 5,859)
5. Alina Ghilan, **Alexandra Croitoriu**, Aurica P Chiriac, Lorena Elena Niță, Maria Bercea, Alina Gabriela Rusu, Injectable Networks Based on a Hybrid Synthetic/Natural Polymer Gel and Self-Assembling Peptides Functioning as Reinforcing Fillers, *Polymers*, 2023, 15(3):636. <https://doi.org/10.3390/polym15030636> (FI 5,0)

6. **Alexandra Croitoriu**, Aurica P. Chiriac, Alina Gabriela Rusu, Alina Ghilan, Diana Elena Ciolacu, Iuliana Stoica, Loredana Niță, Morphological Evaluation of Supramolecular Soft Materials Obtained through Co-Assembly Processes, *Gels* 9(11):886. DOI: [10.3390/gels9110886](https://doi.org/10.3390/gels9110886) (FI 4,6)

Lucrări conexe tezei de doctorat

1. Alina Gabriela Rusu, Aurica P Chiriac, Loredana Elena Nita, Vera Balan, Alexandru Mihail Serban, **Alexandra Croitoriu**, Synthesis and comparative studies of glucose oxidase immobilized on Fe₃O₄ magnetic nanoparticles using different coupling agents, *Nanomaterials*, 2022, 12(14):2445. doi: [10.3390/nano12142445](https://doi.org/10.3390/nano12142445) (FI 5,719)
2. Ruxandra Mihailovici, **Alexandra Croitoriu**, Florin Nedeff, V. Nedeff, Lacramioara Ochiuz, Decebal Vasincu, Ovidiu Popa, Maricel Agop, Andreea Moraru, Danut Costin, Marcel Costuleanu, Liliana Verestiuc, Drug-Loaded Polymeric Particulated Systems for Ophthalmic Drugs Release, *Molecules*, 2022, 27(14):4512. doi: [10.3390/molecules27144512](https://doi.org/10.3390/molecules27144512) (FI 4,927)
3. Alina Gabriela Rusu, Loredana Elena Niță, Irina Roșca, **Alexandra Croitoriu**, Alina Ghilan, Liliana Mititelu-Tarțău, Aurica Valentin Grigoraș, Bianca-Elena-Beatrice Crețu, Aurica P. Chiriac, Alginate-Based Hydrogels Enriched with Lavender Essential Oil: Evaluation of Physicochemical Properties, Antimicrobial Activity, and In Vivo Biocompatibility, *Pharmaceutics*, 2023, 15(11), 2608. doi: [0.3390/pharmaceutics15112608](https://doi.org/10.3390/pharmaceutics15112608) (FI 5,4)

2. Lucrări publicate în reviste CNCSIS (cu specificarea categoriei CNCSIS)

3. Lucrări publicate în reviste indexate BDI

4. Capitole de carte

5. Brevete

Loredana Elena Niță, Aurica Chiriac, Alina Gabriela Rusu, **Alexandra Croitoriu**, Alexandru Șerban, Iordana Neamțu, Constanța Munteanu, Procedeu de preparare a unui gel autoasamblat pe bază de peptide, RO 137294-A8.

6. Comunicări la conferințe naționale sau internaționale

Comunicări orale la manifestări științifice

1. **Alexandra Croitoriu**, Loredana E. Nita, Alina G. Rusu, Andrei Cimponeriu, Aurica P. Chiriac, Supramolecular Gels Based on Amino Acids, *The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021*, 18-19 November, Iasi, Romania.

2. **Alexandra Croitoriu**, Alina G. Rusu, Alexandra Bargan, Maria Bercea, Liliana Mititelu-Tartau, Loredana E. Nita, Aurica P. Chiriac, Hybrid porous materials peptide-alginate/poly (itaconic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]undecane) based with controllable properties, *3rd International Conference on Aerogels for Biomedical and Environmental Applications*, 5-7 July 2023, Maribor, Slovenia.
3. **Alexandra Croitoriu**, Loredana E. Niță, Onur Yilmaz, Development of interpenetrating network gels based on low molecular weight gelators and synthetic polymer for treating dye-contaminated water, *7th International Congress on Innovative Aspects for Leather Industry – IAFLI 2023*, 23-24 November, Izmir, Turcia.

Prezentare de postere

1. **Alexandra Croitoriu**, Loredana E. Niță, Alexandru Serban, Alina G. Rusu, New gels preparation based on peptide-peptide co-assembly, *31st Conference of the European Society for Biomaterials, ESB 2021 together with 43RD ANNUAL CONGRESS OF IBERIAN SOCIETY OF BIOMECHANICS AND BIOMATERIALS (SIBB)*, 5-9 September, 2021, PORTO, PORTUGAL.
2. **Alexandra Croitoriu**, Loredana E. Nita, Alina G. Rusu, Alina Ghilan, Florica Doroftei, Maria Bercea, Aurica P. Chiriac, HYBRID HYDROGELS BASED ON PEPTIDE, INTERNATIONAL CONFERENCE ON RHEOLOGY- *Understanding the Viscoelastic Behavior of Materials – Progress and Challenges*, 26 May, 2022, Iasi, Romania.
3. **Alexandra Croitoriu**, Alexandru M. Serban, Aurica P. Chiriac, Alina G. Rusu, Alina Ghilan, Loredana E. Nita, Hydrogels based on amino acids and gelling polymers, *Polymers 2022 Conference: New trends in Polymers Science, Health of the Planet, Health of the People*, 25-27 May, 2022, Turin, Italy.
4. **Alexandra Croitoriu**, Loredana E. NITA, Alina G. RUSU, Alina GHILAN, Florica DOROFTEI, Maria BERCEA, Aurica P. CHIRIAC, Investigation of an interpenetrated polymer system containing cellulose nanofibrils and a copolymacrolactone structure, INTERNATIONAL CONFERENCE ON RHEOLOGY- *Understanding the Viscoelastic Behavior of Materials – Progress and Challenges* 26 May, 2022, Iasi, Romania.
5. **Alexandra Croitoriu**, Alexandru Serban, Alexandra Bargan, Maria Bercea, Florica Doroftei, Loredana Elena Nita, Alina Gabriela Rusu, Alina Ghilan, Aurica P. Chiriac, *Structured Aerogels as Advanced Materials Based on Cellulose Nanofibrils and a Copolymacrolactone System*, *2nd International Conference on Aerogels for Biomedical and Environmental Applications – AEROGELS 2022*, 29 June- 01 July, 2022, Athens, Greece.

6. Loredana E. Nita, Aurica P. Chiriac, **Alexandra Croitoriu**, Alina G. Rusu, Alina Ghilan, Alexandru M. Serban, Irina Rosca, Alexandra Bargan, New antibacterial aerogels based on synthetic polymers and CNF, *2nd International Conference on Aerogels for Biomedical and Environmental Applications – AERoGELS 2022*, 29 June- 01 July, 2022, Athens, Greece.
7. Alina Gabriela Rusu, Aurica P. Chiriac, Loredana Elena Nita, Alina Ghilan, **Alexandra Croitoriu**, Bianca Elena Beatrice Cretu, Alexandru Mihail Serban, Alexandra Bargan, Florica Doroftei, Design of agarose based aerogels with potential application as wound dressings, *3rd International Conference on Aerogels for Biomedical and Environmental Applications*, 5-7 July 2023, Maribor, Slovenia.

7. Alte mențiuni

Premii la manifestări științifice

Young Researcher, 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021.

Semnătură,



Aviz,

Conducător de doctorat

Dr. Loredana Elena Nita:

Semnătură,

