Dr. Diana Felicia LOGHIN

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Research topics

Synthesis/characterization and applications of starch graft copolymers, semi-interpenetrating hydrogels/cryogels and microspheres by ionic gelation; Evaluation of the applications of polymeric materials such as: drug delivery systems, sorption of heavy metal ions and dyes from wastewater. Characterization methods of the polymeric materials were carried out by: FT-IR spectroscopy, scanning electron microscopy (SEM), X-ray diffraction, thermogravimetric analysis (TGA), nuclear magnetic resonance spectroscopy (NMR), UV-measurements and AAS spectroscopy.

Scientific research

Author and co-author of 13 ISI articles (7 in Q1 zone and 2 in Q2 zone), 2 articles in international proceeding, 1 keynote, 2 conference, 25 oral presentations and 19 posters at national/international scientific meetings, member in 5 national research projects and **DIRECTOR** for 1 national grant (*Design of novel beads chitosan/amidoximated starch for wastewater purification applications – BEADCsAmOxS: PN-III-P1-1.1-PD-2016-1313,* https://beadcsamoxs.wordpress.com/), 625 citations (HI = 9).

Visibility

https://www.brainmap.ro/diana-felicia-loghin
https://www.scopus.com/authid/detail.uri?authorId=57204036148
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Relevant publications

1. **D. F. Apopei Loghin**, G. Biliuță, S. Coșeri, E. S. Drăgan, **Preparation and characterization of oxidized starch/poly(N,N-dimethylaminoethyl methacrylate) semi-IPN cryogels and in vitro controlled release evaluation of indomethacin**, *Internat. J. Biol. Macromol.* 96 (2017) 589–599. **Q1** (**IF_{2021} = 8,025**). DOI: 10.1016/j.ijbiomac.2018.10.007
2. E. S. Drăgan, **D. F. Apopei Loghin**, **Fabrication and characterization of composite cryobeads based on chitosan and starches-g-PAN as efficient and reusable biosorbents for removal of Cu^{2+}, Ni^{2+}, and Co^{2+} ions,** *Int. J. Biol. Macromol.* 120 (2018) 1872–1883. **Q1** (**IF_{2021} = 8,025**) DOI: 10.1016/j.ijbiomac.2016.12.071
3. S. Racovita, M.-A. Trofin, **D. F. Loghin**, M.-M Zaharia, F. Bucatariu, M. Mihai, S. Vasiliu, **Polybetaines in biomedical applications**, *Int. J. Mol. Sci.* 22 (2021), **Q1** (**IF_{2021} = 6.208**) DOI: 10.3390/ijms22179321
4. **D. F. Loghin**, M.M. Bazarghideanu, S. Vasiliu, S. Racovita, M.M. Zaharia, T. Vasiliu, M. Mihai, **Hydrogel beads of amidoximated starch and chitosan as efficient sorbents for inorganic and Organic Compounds**, *Gels* 8, (2022), 549, **Q1** (**IF_{2021} = 4.432**) DOI: 10.3390/gels8090549