



Melinda-Maria BAZARGHIDEANU

PhD Student, Research Assistant

Affiliation: *Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

Email: melinda.bazarghideanu@icmpp.ro

Tel. +40760895917

PhD thesis topic: *Environmentally friendly polymer composites containing polysaccharides or their derivatives*, Coordinator *Dr. Marcela Mihai*

Research topics

Synthesis and characterization of novel micro and nano-particle/fibers based on polysaccharides. Investigation of the potential applications of the micro and nano-particle/fibers in medicine (as drug delivery systems or antimicrobial materials) and in environmental protection. Characterization methods employed in our studies are: scanning electron microscopy (SEM), nuclear magnetic resonance spectroscopy (NMR), UV-measurements, thermogravimetric analysis (TGA), X-ray diffraction (XRD), dynamic light scattering (DLS).

Scientific research

Co-author of 2 ISI articles (2 in Q1 zone), 2 articles in proceedings, 1 poster, 4 oral communications.

Visibility

<https://www.brainmap.ro/melinda-maria-bazarghideanu>

<https://orcid.org/0000-0002-4226-1095>

<https://www.scopus.com/authid/detail.uri?authorId=57412343100>

<https://publons.com/researcher/5132923/melinda-maria-bazarghideanu/>

Relevant publications

1. V. A.-L. Vasiliu, M.-M. Zaharia, M.-M. Bazarghideanu, I. Rosca, D. Peptenariu, M. Mihai, **Hydrophobic Composites Designed by a Nonwoven Cellulose-based Material and Polymer/CaCO₃ Patterns with Biomedical Application**, *Biomacromolecules*, 23(1), 89–99, 2021, Q1 (IF₂₀₂₁ = 6.979). DOI: 10.1021/acs.biomac.1c01036
2. 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(9)2022 549. Q1 (IF₂₀₂₁ = 4.432). DOI: 10.3390/gels8090549