



Dr. Marcela MIHAI

Scientific researcher degree II

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

Group leader - Nanostructured composite materials based on linear and cross-linked ionic polymers

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Scientific director of ICMPP (since 2019); Head of Laboratory of Functional Polymers (since 2018)

Member of the Scientific Council of ICMPP (since 2015)

Member of Romanian Chemical Society (since 2004)

General Secretary of Romanian Chemical Society (since 2021)

Research topics

Complex multicomponent systems based on natural and synthetic polyions (synthetic pathway, characterization, application). Highly specialized in synthesis and characterization of micro and nanoparticles and microcapsules obtained from synthetic and natural polymers and organic/inorganic composites. Applications of synthesized smart materials (pH and/or ionic strength sensitive) as controlled drug delivery cargoes or as specialized sorbents (selective, reusable) for organic (drugs, dyes) or inorganic (heavy metal ions) compounds.

Coordinate the scientific activity of ICMPP by implementing the RESEARCH PROGRAM "MACROMOLECULAR COMPOUNDS AND ADVANCED POLYMER MATERIALS", 2021–2027

Scientific research

Author and co-author of 4 edited books, co-author of a book, 6 book chapters, about 100 articles published in international journals (out of which over 60 in ISI ranked and international peer-reviewed journals), two patents. Member in 17 research national/international grants, coordinator for 3 national and 3 international projects, over 500 citations (HI = 15). More than 140 presentations (lectures by invitation in visited institutes, invited/plenary/keynote lectures, oral and posters) at national/international scientific meetings. Costin D. Nenitescu Prize of the Romanian Academy for the papers in the field *Composite materials based on calcium carbonate and pH-sensitive polyelectrolytes*.

Visibility

<https://www.brainmap.ro/marcela-mihai>; <http://www.researcherid.com/rid/B-9763-2012>;

- Teaching activities: Ethics and academic integrity, PhD students of Iasi Branch of Romanian Academy (from 2019)
- Training tutor for students and master in PPIMC
- Organizer of scientific meetings: 11th Conference on Colloid and Surface Chemistry; XIème Colloque Franco-Roumain sur les Polymères; 12th Conference on Colloid and Surface Chemistry; 3rd International Conference Analytical Chemistry; 4th International Conference Analytical Chemistry, 28th Progress in Organic and Macromolecular Compounds Conference, 2nd Icmpp - Open Door to the Future. Scientific Communications of Young Researchers.
- Peer-review activity for national (UEFISCDI) and international (H2020, NSC-Poland, OTCA-Hungary) programs/projects and journals (~20 revised/year)