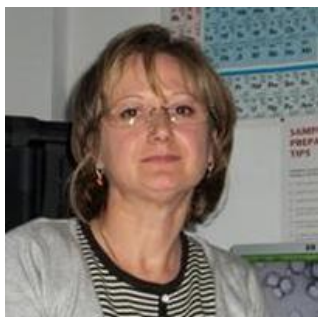


Curriculum Vitae



Marcela Mihai

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Deputy Director

Head of Laboratory of Functional Polymers

"Petru Poni" Institute of Macromolecular Chemistry

Education and training

- 1986–1991 – Chemical engineer, Polytechnic Institute of Iasi, Faculty of Chemical Engineering, Section Technology of Pulp, Paper and Artificial Fibers
- 2003–2009 – Doctor in chemistry, "Petru Poni" Institute of Macromolecular Chemistry (PPIMC) of Romanian Academy, thesis "*Specific interactions in multicomponent systems based on natural or synthetic cationic polyelectrolytes*", scientific coordination Dr. E. S. Dragan
- 2010–2013 – Postdoctoral scholar, Project *European Social Fund - Postdoctoral Program Cristofor I. Simionescu*, research field - biomaterials, scientific subfield - nanostructured nano and biomaterials, funded individual project "*New nanostructured architecture of the polymers obtained by self-assembly of synthetic and/or natural, with biomedical applications*"

Habilitation

- 2016 – Romanian Academy, thesis "*Bioinspired crystal growth through polymeric additives and templates. From basic research to application*", OM 4832/11.08.2016
- September 2016 - Member on the „School for advanced studies of the Romanian Academy” (SCOSAAR), as PhD thesis supervisor in PPIMC

Work experience

- PPIMC: 2001–2002, Research assistant trainee; 2002–2008, Research assistant; 2008–2010, Scientific researcher; 2010–2015, Senior researcher III; 2016 - present - Senior researcher II
- *Head of Laboratory of Functional Polymers* (from January 2018)
- *Member of the Scientific Council* of PPIMC (from March 2015)
- *Head of the Commission* for promoting the image and increasing the visibility of the institute (from March 2015)
- *Director of PPIMC research project* "*Nanostructured composite materials based on linear and crosslinked ionic polymers*", subprogram "*Synthetic and Natural Ionic Polymers*"

Research stages in European institutes

- *Leibniz Institute of Polymer Research*, Dresden, Germany (2003, 2006, 2011, 2012, 2013, 2015, 2016)

- *Institute of Polymers of Bulgarian Academy, Sofia, Bulgaria (2007)*
- *Institute of Theoretical and Physical Chemistry of the National Hellenic Research Foundation, Athens, Greece (2012, 2016).*

Scientific activity

- **Field of research:** Complex multicomponent systems based on natural and synthetic polyions
- **Publications:** co-author of **a book, 6 book chapters, 48 scientific papers (43 in ISI ranked journals, total impact factor ~130), 12 in scientific volumes, two patents**
- Hirsch Index - 11
- **Scientific meeting:** more than **120 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*" published in 2012
- Researcher ID: <http://www.researcherid.com/rid/B-9763-2012>

Projects

- *Research team member in **eleven national grants/projects***
- *Technical Expert in the management team - Competitiveness Operational Programme 2014-2020, Priority Axis 1, Contract 142/10.10.2016, ID P_36_570*
- **POSDRU individual project**, *New nanostructured architectures obtained by self-assembling of synthetic and/or natural polyelectrolytes, with biomedical applications*, 2010-2013
- **Project leader**, *Hollow microcapsules based on calcium carbonate and pH-sensitive polymers as advanced drug delivery systems (MicroCapHs)*, PN-II-RU-TE-2014-4-1433, 2015-2017
- **Project leader**, *Integrated and sustainable processes for environmental clean-up, wastewater reuse and waste valorization (SUSTENVPRO)*, contract 26PCCDI/1.03.2018, 2018-2020
- **Partner project leader**, *Lego-style approach for problematic water streams treatment (WaterLego)*, 224-ERA.Net RUS Plus, 2018-2020
- **Tutor in Postdoctoral Project:** *Design of novel beads chitosan/amidoximated starch for wastewater purification applications*, PN-III-P1-1.1-PD-2016-1313, 2018-2020

Member of professional groups

- Member of *Romanian Chemical Society* (since 2004)
- Member of *International Union of Crystallography* (since 2011)

Specializations and qualifications

- **Theoretical training:** *Macromolecular chemistry at the border between classic and modern. Polymeric biomaterials* (prof. G. David), *Cell biology: structure –function correlation* (Dr. D. Popov), *Farmacology - Biocompatibility* (Prof. Dr. X. Patras), *Natural polymers with*

- biomedical applications* (Prof. V. Popa), *Biodegradable materials* (Prof M. Kowalczuk), *Supramolecular chemistry. Selfassembly and applications in biomedical field* (Prof. G. David).
- **Summer schools:** *Bioactive/biocompatible polymeric materials* (Zabrze, Poland), *Tendences in synthesis and characterization of advanced materials for applications in biology and medicine* (Timisoara, Romania), *Biomaterials* (ESAO Educational School, Krems, Austria), *Green Chemistry* (Georg-August University, Gottingen, Germany).

Other activities

- **Training tutor for students in PPIMC:** theoretical and practical training on macromolecular chemistry – materials synthesis, purification and characterization, activity coordination, periodic and final evaluation.
- **Member of the scientific/organizing committee of scientific meetings:** 11th Conference on Colloid and Surface Chemistry, 2013; XI^{ème} Colloque Franco-Roumain sur les Polymères”, 2014; 6th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BiomMedD’2014; 12th Conference on Colloid and Surface Chemistry, 2016; 3rd International Conference Analytical Chemistry, ROICAC’2016; 4th International Conference Analytical Chemistry, ROICAC’2018.

May, 2019