

Curriculum vitae

MEDRIHAN MARIA

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Personal information:

Date/place of birth: 1998.09.12/Falticeni, Suceava, Romania

Nationality: Romanian, **Gender/Status:** Female/Unmarried

Occupational field: synthesis of nanoparticles, microparticles, Pickering emulsions for application in water and environment pollution remediation;

Education and training:

2022- Present, *PhD candidate*

PhD title thesis: "*Synthesis of polymer micro- and nanoparticles carrying ligands for the extraction of metal ions*", Romanian Academy, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, PhD Coordinator: Dr. Valeria Harabagiu.

2020-2022 *Master's Degree*

Section "Clinical Chemistry", "Al. I. Cuza" University, Faculty of Chemistry, Iasi, Romania, Title of the thesis: "*Synthesis and functionalization of homogeneous nanoparticles and asymmetric Janus nanoparticles*", Supervisors: Conf. univ. dr. Dănuț Gabriel Cozma and Prof. univ. dr. Aurel Pui.

2017-2020 *Bachelor's Degree*

Section "Chemistry", "Al. I. Cuza" University, Faculty of Chemistry, Iasi, Romania, Title of the thesis: "*Modeling reaction mechanisms using density functional theory*", Supervisor: Lect. dr. Dan Maftai.



Professional experience:

11.2022 – Present: PhD student, Electroactive Polymers and Plasmochemistry Department, “Petru Poni” Institute of Macromolecular Chemistry, Iasi.

Work experience:

2023-2024 - Project team member, No. PCE 62/2022, PN-III-P4-PCE-2021-0306, *Employing “PEmPTech” in the Synthesis of Ion-Imprinted Polymer Architectures for Metal Ion Extraction from Wastewaters and Hydro Mining*

Scientific contribution:

IasiCHEM 5-MIT Conference, “Al. I. Cuza University”, Faculty of Chemistry, **oral presentation** - *“Pickering Emulsion Polymerization Technology (PEmPTech) For Obtaining Nanostructured Polymer Materials”*.

MacroYouth 4th Edition Conference, “Petru Poni” Institute of Macromolecular Chemistry, **oral presentation** - *“Nanostructured polymer materials obtained from Pickering Emulsion Polymerization Technology”*.

Foreign languages: English, French.

Experimental skills: synthesis of ligands, complexes and polymeric materials.

Social/organizational skills and competences:

Communication skills – good;

Personality – creative, perfectionist, adaptable;

Assimilating new knowledge – fast, visual memory;

Organizational skills regarding experimental tasks and fulfilling objectives of projects – good.