



Natalia Terenti

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Work Experience

Scientific researcher: 05/2023 – present

National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Street, PO 5 Box 700, 400293 Cluj-Napoca, România

Scientific researcher: 01/2023 – present

Research assistant: 10/2017 – 01/2023

Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, 11 Arany Janos Street, Ro-400028, Cluj-Napoca, Romania

Chemist: 07/2014 – 08/2017

Institute of Chemistry of the Academy of Sciences of Moldova, Laboratory of Bioinorganic Chemistry and Nanocomposites; Academiei Str, 3, Chisinau, Republic of Moldova, MD 2028;

Scientific research trainee: 06/2013 – 06/2017

Institute of Physiology and Sanocreatology of the Academy of Sciences of Moldova, Laboratory of Stress Physiology, Adaptation and General Sanocreatology, Academiei Str, 1, Chisinau, Republic of Moldova, MD 2028;

Education

Doctoral studies: 10/2017 – 07/2022

Doctoral School of Faculty of Chemistry, Babes-Bolyai University, 11 Arany Janos Street, Ro-400028, Cluj-Napoca, Romania; *Supervisor:* Prof. Dr. Ion Grosu

Thesis: Active Materials for Innovative Organic Solar Cells and Smart Heterogeneous Catalysts Based on Porous Aromatic Frameworks

Master Studies: 2015 – 2017

Faculty of Chemistry and Physics, University of the Academy of Sciences of Moldova, Academiei str.3/2, Chişinău, Moldova, Md 2028

Thesis: Homo- and heterometallic compounds of some 3d metals with 2,3-pyridinedicarboxylic acid

Bachelor degree: 2011 – 2015

Faculty of Biology and Chemistry, Tiraspol State University, Iablocikin str. 5, Chisinau, Republic of Moldova, MD 2069

Thesis: Heterometallic pyridinedicarboxylates of cobalt (II) as precursors of metal mixed oxides

Skills and expertise

- Multistep synthesis of organic compounds
- Synthesis and study of homo- and heteronuclear coordination compounds of d, d-s, d-f metals with polyfunctional ligands
- Electrochemistry
- Thermogravimetric analysis
- Covalent Organic Frameworks, Porous Aromatic Frameworks
- Solvothermal synthesis
- Heterogeneous catalysis
- Technical skills: the use of NMR, UV-Vis (solution, thin film and solid) and IR spectrometer, spectrofluorimeter;
- Digital skills: Microsoft Office, MestreNova, Xcalibur, Diamond, Mercury, Chemdraw

Languages

Russian – C1, English – C1, French – A1

Other activities

Member of Executive Organizing Committee

- 5th Central and Eastern European Conference on Thermal Analysis and calorimetry (CEEC-TAC5) and 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2019), Rome, Italy (08/2019)
- 12th European Symposium on Thermal Analysis and Calorimetry (ESTAC12), Brasov, Romania (08/2018)
- 4th Central and Eastern European Conference on Thermal Analysis and calorimetry (CEEC-TAC5), Chisinau, Republic of Moldova, (08/2017)

Scientific coordinator of 8 bachelor theses defended during 2018-2023

Attend the training: "Fabrication and characterization of organic and perovskite photovoltaic cells", Bordeaux, France, (11/2019)

Internship for young specialists and researchers organized by International Innovation Centre for Nanotechnologies, Dubna, Russia (07/2017)