

Cosmina Maria Florina Bohan

Babeş Bolyai University

Faculty of Chemistry and Chemical Engineering

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Chemistry Department

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<https://www.chem.ubbcluj.ro/~ccsoom/organometallic/group.html>



EDUCATION

PhD student in Chemistry

Faculty of Chemistry and Chemical Engineering of Babeş-Bolyai University

Organometallic Chemistry research group, Supramolecular Organic and Organometallic Chemistry Centre

11 Arany Janos, 400028, Cluj-Napoca, Romania

September 2024 – *present*

Supervisor: Prof. Dr. Eng. Anca Daniela Silvestru

MSc in Advanced Chemistry

Faculty of Chemistry and Chemical Engineering of Babeş-Bolyai University

Organometallic Chemistry research group, Supramolecular Organic and Organometallic Chemistry Centre

11 Arany Janos, 400028, Cluj-Napoca, Romania

October 2022 – July 2024

Supervisor: Lect. Dr. Alexandra Mihaela Pop

BSc in Chemistry

Faculty of Chemistry and Chemical Engineering of Babeş-Bolyai University

Organometallic Chemistry research group, Supramolecular Organic and Organometallic Chemistry Centre

11 Arany Janos, 400028, Cluj-Napoca, Romania

October 2019 – July 2022

Supervisor: Lect. Dr. Alexandra Mihaela Pop

RESEARCH INTERESTS

Synthesis, chemical reactivity, and applications of organochalcogen (Se, Te) compounds

RESEARCH PROJECT

Scientific researcher

PN-IV-P2-2.1-TE-2023-0141

PN-IV-P1-PCE-2023-0966

2025 – present

RESEARCH INTERNSHIPS

Erasmus+ Scholarship

Instituto de Síntesis Química y Catálisis Homogénea, Facultad de Ciencias, Universidad de Zaragoza

12 Calle Pedro Cerbuna, 50009 Zaragoza, Spain

January – June 2025

Supervisor: Dr. Esteban P. Urriolabeitia

TEACHING EXPERIENCE

Faculty of Chemistry and Chemical Engineering of Babeş-Bolyai University

Chemistry Department

11 Arany Janos, 400028, Cluj-Napoca, Romania

September 2024 – present

Methods and laboratory techniques in General Chemistry for the students in the bachelor's program.

TECHNICAL SKILLS AND COMPETENCE

- Expertise in the synthesis and characterisation of organometallic and coordination compounds.
- Synthesis and handling of air-sensitive compounds (*Schlenk* and *Glove-box techniques*).
- Experience in operating Bruker 300, 400 and 500 MHz NMR spectrometers and IR spectrometer.
- Good command of chemistry data processing and analysis software (*ChemDraw*, *MNova*, *Diamond*, *Xcalibur* and *Spectragryph*), also skills for using Microsoft Office packages.
- Member of the Romanian Chemical Society.

SCIENTIFIC CONTRIBUTIONS

Scientific papers:

- J. Moradell, C. Bohan, A. Pop, E. P. Urriolabeitia, *ChemCatChem* **2025**, 0, e00664
- C. Bohan, N. Chiorean, E. Gal, A. Pop, *Rev. Roum. Chim.* **2025**, 70(5-6), 337.
- R. A. Butuza, D. Dumitraş, C. Bohan, A. Pop, *New J. Chem.* **2023**, 47, 2202.

Conferences:

- *Design, synthesis and investigation of organoselenium compounds containing oxazolones*, C. Bohan, A. Pop, 12th Workshop on Selenium Sulfur Redox and Catalysis, 24-25th August 2025, Jena, Germany, poster.
- *Silver(I) complexes of diorganosulfur ligands based on oxazol-5(4H)-one moiety*, C. Bohan, A.

Pop, 37th National Chemistry Conference, Târgoviște, Romania, 25-27th September 2024, oral presentation.

- *Design, synthesis and structural characterization of diorganosulfur(II) compounds containing oxazol-5(4H)-one moiety*, C. Bohan, A. Pop, 11th Workshop of Selenium and Sulfur Redox and Catalysis Network, Torun, Poland, 25-26th July 2024, poster.
- *Design, synthesis and investigation of organochalcogen compounds*, C. Bohan, A. Pop, 20th International Conference “Students for Students”, Cluj-Napoca, Romania, 17-21th April 2024, oral presentation.
- *Synthesis, structural characterization and reactivity of organoselenium ligands*, C. Bohan, A. Pop, 18th Student Scientific Communications Session, Bucharest, Romania, 26-27th May 2023, oral presentation.
- *Organoselenium compounds – synthesis and structural characterization*, C. Bohan, A. Pop, 19th International Conference “Students for Students”, Cluj-Napoca, Romania, 26-30th April 2023, oral presentation.
- *Synthesis and structural characterization of new diorganochalcogen(II) compounds*, C. Bohan, A. Pop, 18th International Conference “Students for Students”, Cluj-Napoca, Romania, 6-10th April 2022, oral presentation.
- *New diorganochalcogen(II) compounds. Synthesis and structural characterization*, C. Bohan, A. Pop, 16th Student Scientific Communications Session, Bucharest, Romania, 28-29th May 2021, oral presentation.
- *Synthesis and structural characterization of new heteroleptic diorganochalcogen(II) compounds*, C. Bohan, A. Pop, 17th International Conference “Students for Students”, Cluj- Napoca, Romania, 21-24th April 2021, oral presentation.

Scholarships:

- Special Scholarship for Scientific Activity awarded by Babeş-Bolyai University, *via* Institute of Advanced Studies in Science and Technology (STAR-UBB), 2023-2024.
- World Federation of Scientists (WFS) National Scholarship, 2022-2023.

VOLUNTEERING

ChemEperience

April 2020 – July 2023

<https://www.instagram.com/chem.xperience/>

Chemistry Students’ Organization

Member of Media and PR department

October 2019 – July 2022

<https://osccluj.ro/>

LANGUAGES

Mother tongue: Romanian
English (**B2**) and French (**B2**)

HOBBIES

Photography, cycling and travelling.