



Maria Caterina Afloarei

Date of birth: 06/10/1995 | **Nationality:** Romanian | **Gender:** Female | **Email address:**

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● ABOUT ME

Section Managing Editor at MDPI Romania.

PhD student in organometallic chemistry, passionate about research and acquiring new knowledge in all fields of science.

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Web of Science ResearcherID: ABA-5330-2022

● WORK EXPERIENCE

SECTION MANAGING EDITOR – MDPI ROMANIA – 05/2025 – Current – CLUJ-NAPOCA, ROMANIA

ASSISTANT EDITOR – MDPI ROMANIA – 07/2024 – Current – CLUJ-NAPOCA, ROMANIA

SCIENTIFIC RESEARCH ASSISTANT – BABEȘ-BOLYAI UNIVERSITY – 03/2021 – 12/2023 – CLUJ-NAPOCA, ROMANIA

Address: Arany Janos Str. no 11, 400028, Cluj-Napoca, Romania

Project PN-III-P4-ID-PCE-2020-2651

Synthesis and characterization of organopnictogen(III) compounds

● EDUCATION AND TRAINING

01/10/2019 – CURRENT Cluj-Napoca, Romania

PHD STUDENT Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

Address Arany Janos Str. no. 11, 400028, Cluj-Napoca, Romania | **Website** <http://www.chem.ubbcluj.ro/en/> |

Field of study Organometallic Chemistry | **Thesis** Chemistry of group 14 elements

10/2017 – 06/2019 Cluj-Napoca, Romania

MASTER'S DEGREE IN ADVANCED CHEMISTRY Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

Address Arany Janos Str. no. 11, 400028, Cluj-Napoca, Romania | **Website** <http://www.chem.ubbcluj.ro/en/> |

Field of study Advanced Chemistry | **Thesis** Binuclear organotin(IV) derivatives

10/2014 – 06/2017 Iași, Romania

BACHELOR'S DEGREE IN CHEMISTRY Alexandru Ioan Cuza University of Iași, Faculty of Chemistry

Address Carol I Blvd. no. 11, 700506, Iași, Romania | **Website** <https://www.chem.uaic.ro/en/> | **Field of study** Chemistry |

Thesis Synthesis and characterization of iron-containing perovskites

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A1	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Outlook | Google Docs | MestReNova | ChemDraw | Diamond | CCDC Software | Google Drive | SciFinder | Reaxys | Web of Science

CONFERENCES AND SEMINARS

01/06/2023 – 03/06/2023 Debrecen, Hungary

4th Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCE IV)

Oral presentation - Synthesis, structural characterization and reactivity of novel organoantimony(III) aryloxides

Link <https://yricce2023.mke.org.hu/>

04/10/2022 – 07/10/2022 Căciulata, Romania

National Chemistry Conference 2022 Edition XXXVI

Oral presentation - Novel organoantimony(III) aryloxides. Synthesis and reactivity.

Link <https://chimcomplex.com/en/national-chemistry-conference-2022/>

31/10/2018 – 02/11/2018 Iași, Romania

4th International Conference on Chemical Engineering, Innovative Materials and Processes for a Sustainable Development, ICCE 2018

Poster - Structural characterization, magnetic and transport properties in Co-substituted $\text{La}_{0.67}\text{Sm}_{0.33}\text{Fe}_{1-x}\text{Co}_x\text{O}_3$ perovskites

PUBLICATIONS

2022

Supramolecular architectures in novel diphenyl(aryl)tin(IV) chlorides

C. Afloarei, I. Barbul, A.-A. Someșan, C. Silvestru, R. A. Varga, Polyhedron 222 (2022) 115894

TECHNICAL SKILLS AND COMPETENCES

05/2025 – CURRENT

Section Managing Editor

Special Issue management

07/2024 – CURRENT

Assistant Editor

Manuscript processing

Researcher

- Literature review
- Synthetic chemist in organometallic chemistry

● RESEARCH STAYS AND TRAINING

01/03/2022 – 30/07/2022

Erasmus+ Study Mobility at Technische Universität Chemnitz, Faculty of Natural Sciences, Institute of Chemistry, Coordination Chemistry

Contributions to the chemistry of organopnictogen (Sb, Bi) compounds. Synthesis and structural characterization, potential applications.

03/2016 – 04/2016

Erasmus+ Traineeship at École Nationale Supérieure de Chimie de Lille, Unité de Catalyse et Chimie du Solide (UCCS)

New oxide ion and electronic conductors for Solid Oxide Fuel Cells (SOFC)

● OTHER COURSES

07/09/2023 – 11/09/2023

XIV International School of Organometallic Chemistry - ISOC 2023, Camerino, Italy

"The ISOC series is the most important school on organometallic chemistry at the European level, organized by Camerino University under the auspices of the Interdivisional Group of Organometallic chemistry of the Italian Chemical Society. The aim is to encourage the presence of young researchers and Ph.D students both from University and Industry, including those not directly involved in organometallic research projects, in order to bring together young researchers and distinguished European scientists as a contribution to the important goal of increasing the transfer of knowledge at a high level between different European countries and different generation of scientists."

Poster - Comparative synthesis methods for novel, air-sensitive, antimony(III) aryloxides

Link <https://isoc.unicam.it/home>

13/07/2017 – 03/08/2017

A+ Summer School - Antibiotice Iași

Summer school in the fields of research, development and pharmaceutical formulation, quality assurance and control, production, medical and pharmacovigilance

● COMMUNICATION AND INTERPERSONAL SKILLS

Teamwork and multitasking

- Good teamwork skills as a result of collaborative work in the lab
- Working well under pressure, multitasking, stress management
- Good communication skills; planning and coordinating with others to ensure optimum usage of resources
- Good management skills of overall laboratory activities as the most experienced researcher in the absence of a supervisor
- Attention to detail