

## PERSONAL INFORMATION **Maria MARINESCU**

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Sex F | Date of birth 02/10/1970 – optional | Nationality Romanian

## WORK EXPERIENCE

- 2023-present**      **Lecturer**  
 University of Bucharest, Panduri Street, No. 90-92, Bucharest, [www.unibuc.ro](http://www.unibuc.ro)  
 Teaching and research  
 Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis
- 1998-2023**      **Teaching Assistant**  
 University of Bucharest, Panduri Street, No. 90-92, Bucharest, [www.unibuc.ro](http://www.unibuc.ro)  
 Teaching and research  
 Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis
- 1995-1998**      **Preparator**  
 University of Bucharest, Panduri Street, No. 90-92, Bucharest, [www.unibuc.ro](http://www.unibuc.ro)  
 Teaching and research  
 Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis

## EDUCATION AND TRAINING

<p><b>2003-2010</b></p> <p>Name and type of organisation Principal subjects skills covered</p>	<p><b>PhD in Chemistry</b></p> <p>University of Bucharest, Faculty of Chemistry Thesis Title: Chemistry and properties of 1,2,3,4,5,6,7,8-octahydroacridine compounds</p>	<p>EQF Level 8</p>
<p><b>1994-1995</b></p> <p>Name and type of organisation Principal subjects skills covered</p>	<p><b>Master of Science</b></p> <p>University of Bucharest, Faculty of Chemistry Thesis Title: Synthesis and properties of some <i>sym</i>-octahydroacridine complexes</p>	<p>EQF Level 7</p>
<p><b>1989-1994</b></p> <p>Name and type of organisation Principal subjects skills covered</p>	<p><b>Bachelor of Science</b></p> <p>University of Bucharest, Faculty of Chemistry Organic chemistry</p>	<p>EQF Level 6</p>

## PERSONAL SKILLS

Mother tongue(s)      Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	<b>C1</b>	<b>C1</b>	<b>C1</b>	<b>C1</b>	<b>C1</b>

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

### EXPERTISE FIELD

- Organic Chemistry
- Biochemistry
- Cultural Heritage Analysis

### EXTRACURRICULAR ACTIVITIES

Activities for improving the faculty visibility (Chimia prieten sau dușman, Noaptea cercetătorilor, Student pentru o zi), member of licensing committees.

### MENTOR OF STUDENTS

- Bachelor- 7 students (last 5 years)
- Master of Science - 5 students (last 5 years)

### ISI PUBLICATIONS

1. Marinescu, M., Zalaru, C. (2025). "Benzimidazole–Pyrimidine Hybrids: Synthesis and Medicinal Properties". *Pharmaceuticals*, 18(8), 1225. DOI: 10.3390/ph18081225
2. Zalaru, C., Dumitrascu, F., Draghici, C., Ferbinteanu, M., Tarcomnicu, I., Marinescu, M., Moldovan, Z., Nitulescu, G.M., Tatia, R., Popa, M. (2024). "Synthesis, Spectroscopic Characterization, Structural Analysis, and Evaluation of Anti-Tumor, Antimicrobial, and Antibiofilm Activities of Halogenoaminopyrazoles Derivatives". *Antibiotics*, 13(12), 1119. DOI: 10.3390/antibiotics13121119.
3. Duliu, O.G., Emami, A., Marinescu, M., Cinteza, O., Stanculescu, I., Ionescu, L., Filimon, D. (2024). "Assessing the Degradation Status of the Imperial Doors of the Ascension Church, Grindu Commune, Romania". *Applied Sciences*, 14(16), 7565. DOI: 10.3390/app14177565.
4. Marinescu, M., Popa, C.V., Tănase, M.A., Soare, A.C., Tablet, C., Bala, D., Cinteza, L.O., Dițu, L.M., Gifu, I.C., Petcu, C. (2022). "Synthesis, Characterization, DFT Study and Antifungal Activities of Some Novel 2-(Phenyldiazenyl)phenol Based Azo Dyes". *Materials*, 15 (22), 8162. DOI: 10.3390/ma15228162.
5. Zalaru, C., Dumitrascu, F., Draghici, C., Tarcomnicu, I., Marinescu, M., Nitulescu, G.M., Tatia, R., Moldovan, L., Popa, M., Chifiriuc, M.C. (2022). "New Pyrazolo-Benzimidazole Mannich Bases with Antimicrobial and Antibiofilm Activities". *Antibiotics*, 11(8). DOI: 1094. 10.3390/antibiotics11081094.
6. Marinescu, M., Popa, C.V. (2022). "Pyridine Compounds with Antimicrobial and Antiviral Activities". *International Journal of Molecular Sciences*, 23(10), 5659. DOI: 10.3390/ijms23105659.
7. Tănase, M.A., Marinescu, M., Oancea, P., Răducan, A.; Mihaescu, C.I., Alexandrescu, E., Nistor, C.L., Jinga, L.-I., Dițu, L.M., Petcu, C., Cinteza, L.O. (2021). "Antibacterial and Photocatalytic Properties of ZnO Nanoparticles Obtained from Chemical versus Saponaria officinalis Extract-Mediated Synthesis". *Molecules*, 26(7), 2072. DOI: 10.3390/molecules26072072.
8. Marinescu, M., Cinteza, L.O., Marton, G.I., Chifiriuc, M.C., Popa, M., Stănculescu, I., Zălaru, C.M., Stavarache, C.M. (2020). "Synthesis, density functional theory study and in vitro antimicrobial evaluation of new benzimidazole Mannich bases". *BMC Chemistry*, 14(1), 45. DOI: 10.1186/s13065-020-00697-z.
9. Marinescu, M., Potmischil, F., Florea, M., Constantinescu, C. (2018). "Thermal behavior of several 1,2,3,4,5,6,7,8-octahydroacridines and of their N(10)-oxides". *Journal of Thermal Analysis and Calorimetry*, 131(1), 117-125. DOI: 10.1007/s10973-016-5862-3.
10. Zalaru, C., Dumitrascu, F., Draghici, C., Tarcomnicu, I., Tatia, R., Moldovan, L., Chifiriuc, M.C., Lazar, V., Marinescu, M., Nitulescu, M.G., Ferbinteanu, M. (2018). "Synthesis, spectroscopic characterization, DFT study and antimicrobial activity of novel alkylaminopyrazole derivatives". *Journal of Molecular Structure*, 1156(1), 12-21. DOI: 10.1016/j.molstruc.2017.11.073.
11. Marinescu, M., Cinteza, L.O., Marton, G., Măruțescu, L., Chifiriuc, M.C., Constantinescu, C. (2017). "Density functional theory molecular modeling and antimicrobial behaviour of selected 1,2,3,4,5,6,7,8-octahydroacridine-N(10)-oxides". *Journal of Molecular Structure*, 1144(1), 14(23). DOI: 10.1016/j.molstruc.2017.05.003.
12. Marinescu, M., Tudorache, D. G., Marton, G., Zalaru, C. M., Popa, M., Chifiriuc, M.C., Stavarache, C., Constantinescu, C. (2017). "Density functional theory molecular modeling, chemical synthesis, and antimicrobial behaviour of selected benzimidazole derivatives". *Journal of Molecular Structure*, 1130(1), 463-471. DOI: org/10.1016/j.molstruc.2016.10.066.

### CHAPTER OF BOOKS

1. Marinescu, M (2023): Chromophores with Nonlinear Optical Properties and Their Applications. p. 1-143. Nova Science Publishers, New York,. DOI: 10.52305/RSQV5377
2. Marinescu, M (2021): Chapter 4: Nitrogen-Containing Heterocycles as Corrosion Inhibitors, p. 158-208. in "Corrosion Inhibitors: An Overview", Editor Raymond Wilkerson, Series: Chemistry Research and Applications, Nova Science Publishers, New York, 2021, DOI: 10.52305/PYBG4044. ISBN: 978-1-68507-012-0
3. Marinescu, M.; Zalaru, C.-M. (2021): Chapter 3: Synthesis, Antibacterial and Anti-Tumor Activity of Pyrazole Derivatives, Vol. 2, p. 18-27, in *Recent trends in Biochemistry*, Ed. MedDocs eBooks
4. Marinescu, M. (2020): Chapter 3: Chiral Benzimidazoles in Medicinal Chemistry: Syntheses and Applications in Benzimidazole: Preparation and Applications, pag. 87-113, Editor Aksel A. Vestergaard, Publisher: Nova Science, New York, ISBN 978-1-53616-986-7. BISAC: SCI013040
5. Zălaru, C.M., Marinescu, M. (2020): Chapter 7: Benzimidazole Compounds with Anti-Tumor and Antibacterial Activities, pag. 221-251, în Benzimidazole: Preparation and Applications, Editor Aksel A. Vestergaard, Publisher: Nova Science, New York, 2020, ISBN 978-1-53616-986-7. BISAC: SCI013040.
6. Marinescu, M. (2019): Chapter 1: Synthesis and nonlinear optical studies on organic compounds in laser deposited thin films' in Applied Surface Science, Editor G. Injeti, Publisher: IntechOpen, ISBN 978-1-78984-098-8. doi: 10.5772/intechopen.83234
7. Marinescu, M. (2019): Introductory Chapter: "Short insight in synthesis and applications of benzimidazole and its derivatives" in Chemistry and applications of benzimidazole and its derivatives, Editor Maria Marinescu, Publisher IntechOpen, (ISBN: 978-1-78984-553-2), DOI: 10.5772/intechopen.87174.
8. Cintează, L.O., Marinescu, M. (2018): Chapter 1: Synthesis and Nonlinear Studies on Selected Organic Compounds in Nanostructured Thin Films', in "Advanced Surface Engineering Research," 978-1-78984-340-8, p. 1-23, Editor M.A. Chowdhury, Publisher: London IntechOpen, DOI: 10.5772/intechopen.

### RESEARCH PROJECTS (LAST 10 YEARS)

- 1 projects as coordinator
- 5 projects as team member
- 1 UB project