

PERSONAL INFORMATION



MARIA COROȘ

📍 Donat str., 67-103 Cluj-Napoca, Romania

✉ maria.coros@itim-cj.ro

Sex: Female | Date of birth: 08/11/1978 | Nationality: Romanian

WORK EXPERIENCE

- 01.05.2013- PRESENT Scientific Researcher III at National Institute for Research and Development of Isotopic and Molecular Technology, Cluj-Napoca, Romania
- 01.06.2012- 30.04.2013 Scientific Researcher at National Institute for Research and Development of Isotopic and Molecular Technology, Cluj-Napoca, Romania
- 01.06.2008- 31.05.2012 Research Assistant in Natural Products Laboratory at “Raluca Ripan” Institute for Research in Chemistry, Cluj-Napoca, Romania

EDUCATION AND TRAINING

- 2005-2010 Ph. D- Student, organic chemistry field
PhD - Thesis title: Synthesis of some crown ethers with aromatic pendant arms and of some metal organic frameworks, Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
Master of Science
- 2004-2005 Advanced Organic Chemistry
Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
Bachelor of Science (Chemical engineering field)
- 1999-2004 Organic Chemistry Technologies
Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
- 1993-1997 Baccalaureate Diploma
Mathematics-Physics
Stephan Ludwig Roth High School, Medias, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

English

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	B2	B2	B2	B1

French

A1

A1

A1

A1

A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Other skills

- **Organic ligands synthesis** (heterocyclic compounds)
- Compounds characterization by NMR, -IR/Raman, UV-Vis
- **Carbon nanostructures** (graphene, graphene oxide) **preparation and functionalization**
- Carbon nanostructures characterization
- **Supramolecular chemistry:**
- a) synthesis and structural characterization of peraza-crown ethers and of reaction intermediaries (NMR, single crystal X-ray diffraction)
- b) synthesis and structural characterization of lariat ethers (NMR)
- c) synthesis and structural characterization of metal organic frameworks (powder X-ray diffraction, nitrogen adsorption/desorption at 77K, FTIR, thermogravimetric analysis, hydrogen adsorption/desorption)
- **Natural compounds chemistry:**
- a) Terpene synthesis (limonene, α -pinene, linalool, sabinene, mircene, terpinene, ocimene) by recovering the secondary products, obtained industrially (catalytic isomerizations, rearrangements). Analysis of the synthesized products (gas chromatography)
- b) Optimization of the synthesis of terpenic compounds, technological transfer
- **Didactic activities in the field of chemical engineering:** Strength of materials; Oct. 2005- Ian. 2006; Oct. 2006- Ian. 2007; Oct. 2007- Ian. 2008

Computer skills

Good knowledge of Microsoft Office, IT, Open Office, ChemDraw, MestreC, Gas chromatograph, Nova

ADDITIONAL INFORMATION

Professional Association Affiliation:

Member of Romanian Catalysis Society