

PERSONAL INFORMATION



Oana Grad

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Sex Female | Date of birth 08/02/1985 | Nationality Romanian

WORK EXPERIENCE

March 2019 – Present
November 2016 – February 2019

Senior researcher III Research assistant

National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat St. PO 5 Box 700 400293 Cluj-Napoca Romania www.itim-cj.ro/

Main activities and responsibilities

- Preparation of porous materials and their composites with applications in gas storage (H₂, CO₂, CH₄ etc.), catalysis and water and soil depollution; Pre- and post-synthetic functionalization, optimisation of new methods of synthesis.
- Textural, structural and morphological characterization of synthesized porous materials and their hybrids by powder X-ray diffraction, NMR, FTI-R and RAMAN spectroscopy, nitrogen and hydrogen adsorption/desorption at 77K and 298K, thermogravimetric analysis, SEM, TEM.
- Heterogeneous catalysis in liquid phase. Determination of catalytic parameters: conversion, selectivity, deactivation – regeneration mechanism of catalysts for liquid-phase oxidation, reduction and hydrogenation reactions, formic acid decomposition, etc.

Business or sector Research and Development

March 2012 - March 2015

Research assistant

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., 400028, Cluj-Napoca Romania, chem.ubbcluj.ro/

Main activities and responsibilities

- Iterative synthesis and structural analysis of novel dendritic melamines incorporating serinolic units.
- *Practical works and seminars* BSc. Level. Supervised and directed the practical part of several students for diploma theses and some MSC students.

Business or sector Scientific research activities

EDUCATION AND TRAINING

October 2009 – November 2012

PhD in Chemistry

EQF (8) level

“Ingénierie de systèmes conjugués A-π-D diaziniques et évaluation de leurs propriétés opto-électroniques. Mélanges spirodendritiques à partir des amino-1,3-dioxanes sérinologiques énantiopures. Design, synthèse et analyse structurale”

Joint degree program between University Babeş-Bolyai, Romania and University of Rouen, France

- Stereosynthesis of highly functionalised π-deficient systems with (masked) serinolic motifs. Iterative synthesis and stereochemistry of novel dendritic melamines. Structural organic analysis (NMR, IR, UV, MS).

October 2004 – July 2009

Bachelor's degree in Chemistry

EQF (6) level

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., 400028, Cluj-Napoca Romania

- Organic Chemical Technology

September 2000 – Jun 2004

Bacalaureat

EQF (6) level

Lucian-Blaga High School, 29-31 Vanatorilor St., 545300, Reghin Romania

- Theoretical disciplines

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
French	B2	C1	C1	C1	C1

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

Communication skills

Team spirit, *communication* skills. Very good relationship with co-workers.

Job-related skills

Good knowledge of Nuclear Magnetic Resonance Instruments (RMN), Infrared spectroscopy, basic knowledge of polarimetry, atomic force microscopy

Digital skills

Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™), Chem-Win, Chem-Draw, MestRe-C, WIN-NMR, Topspin, Scifinder, Reaxys, OriginPro

SCIENTIFIC ACTIVITY

Publications

- 18 scientific articles
- 1 patent application
- 22 papers presented as poster or oral presentations at international conferences

Profiles

- Scopus ID: 39863929000
- Researcher ID: J-9316-2012. Profile URL: <http://www.researcherid.com/rid/J-9316-2012>
- ORCID ID: 0000-0002-0325-970X. Profile URL: <http://orcid.org/0000-0002-0325-970X>
- ResearchGate Profile: https://www.researchgate.net/profile/Oana_Moldovan7

Projects

- Project Leader (Research Project: Grants for *Young Researchers* GTC - 34053/2013), Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
- Member in the research teams of 4 national and international research programs

Memberships

- Member of the Romanian Chemistry Society
- Member of the Romanian Catalysis Society

Awards/Scholarships

- The patent application A01027 from 5.12.2017 *Synthetic method of MIL-101(Cr) metal-organic framework* received Diploma of excellence at the 17th session of PRO INVENT – the International Fair of Research, Innovation and Inventions, 20-21 March 2019
- *Babes-Bolyai University of Romania*: Ph.D. Scholarship funded by European project: POSDRU/88/1.5/S/60185
- *French Ministry of Foreign and European Affairs*: Scholarship Program of Excellence EIFFEL (bourses d'Excellence Doctorale EIFFEL) – 2011-2012 (six months).

Research stages

- Polytechnic University of Valencia (UPV), Spain Jun 2019
- University of Rouen, I.R.C.O.F. (*Institut de Recherche en Chimie Organique Fine*) France, January 2011- March 2012

Cluj Napoca, 10.03.2021

Dr. Ing. Oana Grad