



Europass Curriculum Vitae

Personal information

Surname(s) / First name(s) **LAZAR MIHAELA DIANA**
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E-mail diana.lazar@itim-cj.ro
Nationality Romanian
Date of birth April 27 1968
Gender Female

Occupational field **Research and Development**

Work experience

Dates Jan 2013 – present Senior Scientific Researcher I
Oct. 2011 – dec 2012 Senior Scientific Researcher II
2002 - oct 2011 Senior Scientific Researcher III

Occupation or position held Senior Scientific Researcher I;
group leader for “E7-Porous materials and carbon nanostructure” research group

Main activities and responsibilities - preparation of supported metal catalysts using various methods: impregnation, coprecipitation, deposition-precipitation, sol-gel technique;
- preparation and characterization of metal nanoparticles - graphene composites;
- catalysts characterization; determination of: total surface area and porosity (BET method) metal surface area and dispersion (chemisorption), particles size (TEM, XRD);
- surface reactions: temperature-programmed desorption (TPD), temperature-programmed reduction (TPR), temperature-programmed oxidation (TPO);
- determination of catalytic parameters (activity, selectivity, deactivation rate, carbon deposition, re-activation) in heterogeneous catalytic processes (hydrogenations, H/D isotopic exchange, steam reforming, water-gas shift, NO_x reduction, etc).

Name and address of employer National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath Street, Cluj-Napoca, Romania, www.itim-cj.ro

Type of business or sector Research

Dates 2005-2006

Occupation or position held Visiting scientist

Main activities and responsibilities Study of isocyanides adsorption and stability on metal surfaces using IR spectroscopic techniques.
Study of the gold catalyzed oxidative reaction of isocyanides with amines.

Name and address of employer Iowa State University, Ames Iowa, United States of America
Type of business or sector Research and Teaching

Dates 1995 - 2002

Occupation or position held Research assistant (1995-1998) and scientific researcher (1998 -2002)
Main activities and responsibilities Use of H/D isotopic exchange for the preparation of totally or partially deuterated large molecules and for the study of metal/support catalysts

Name and address of employer National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath St., Cluj-Napoca, Romania, www.itim-cj.ro

Type of business or sector Research

Education and training

Dates July 2010

Title of qualification awarded PhD

Principal subjects/occupational skills covered Studies of supported metal catalysts by H/D isotopic exchange

Name and type of organisation providing education and training Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11, Arany Janos St., Cluj-Napoca, 400028, Cluj, Romania

Level in national or international classification ISCED 6

Dates July 1994

Title of qualification awarded Bachelor of Science

Principal subjects/occupational skills covered Chemical Science

Name and type of organisation providing education and training Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11, Arany Janos St., Cluj-Napoca, 400028, Cluj, Romania

Level in national or international classification ISCED 5A

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) self-assessment <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1 Proficient user	C2 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user

(*) *Common European Framework of Reference for Languages*

Social skills and competences Team work; good ability to adapt to multicultural environments; experience in working in national and international research teams.

Organisational skills and competences	Good organizer, research and teaching abilities, ability to respect schedules and deadlines, able to manage multiple tasks
Technical skills and competences	Chemistry laboratory works, measurements and control, data processing and statistics applied to chemistry.
Computer skills and competences	Ms Office, Internet,
Other skills and competences	Professional affiliations: vice-president of the Romanian Catalysis Society, member of Romanian Chemistry Society, and Romanian Association for Hydrogen Energy

Additional information **Publications:**
75 scientific articles (55 in ISI journals, 7 in ISI indexed conference proceedings and 13 in BDI journals)
60 papers presented as poster or oral presentations at international conferences
2 book chapters published by international publishers
3 granted patents
3 patent applications

<https://publons.com/researcher/1669144/mihaela-diana-lazar/>

Relevant research projects:

Project coordinator for:

1. PN III "Proiecte de Transfer la Operatorul Economic – PTE" program: "Implementation of the platinum group metals recovery technology from car catalytic converters: AutoCat" – project coordinator for INCDTIM (2020-2022)
2. PN III "Proiecte Experimentale Demonstrative – PED" program: Syngas from biogas using combined steam and dry reforming on Ni based bimodal pore catalysts: SynCat – project coordinator (PI) (2017-2018)
3. PN III "NUCLEU" Program: Hydrogen as energy vector: new methods for hydrogen storage and utilization; – project coordinator (PI) (2016-2017) PN16-30 01 04
4. PN II "Parteneriate" Program: Hydrogen production from hydroxylic compounds resulted as biomass processing wastes – project coordinator (PI) (2012-2016)
5. PN II "NUCLEU" Program: Study of nanostructured catalysts efficient for hydrogen involving reactions: hydrogen production and H/D isotopic exchange - project coordinator (PI) (2009-2013)
6. Romania – Dubna (Russia) agreement; theme: Investigations of Nanosystems and Novel Materials by Neutron Scattering Methods – coordinator for INCDTIM (2009-2011 and 2012-2018);
7. PN II "Parteneriate" Program: Research and Development of a membrane reactor for ultra pure hydrogen production for fuel cells applications – coordinator for INCDTIM (2007-2010);

Cluj Napoca,
28.04.2020

Signature,

