



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 | Ian 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 |
| 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
European level (*)
English

| Understanding | | | | Speaking | | | | Writing | |
|---------------|-----------------|---------|-----------------|--------------------|-----------------|-------------------|-----------------|---------|-----------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| 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.

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| 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 | Affiliation: member in the Romanian Chemistry Society, Romanian Catalysis Society and Romanian Association for Hydrogen Energy |
| Additional information | <p>Publications: 69 scientific articles (49 in ISI journals, 7 in ISI indexed conference proceedings and 13 in BDI journals) 50 papers presented as poster or oral presentations at international conferences 2 book chapters published by international publishers 3 patents 3 patent applications</p> <p>https://publons.com/researcher/1669144/mihaela-diana-lazar/</p> <p>Relevant projects: Project coordinator: 1. 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) 2. PN III "NUCLEU" Program: Hydrogen as energy vector: new methods for hydrogen storage and utilization; – project coordinator (PI) (2016-2017) PN16-30 01 04 3. PN II "Parteneriate" Program: Hydrogen production from hydroxylic compounds resulted as biomass processing wastes – project coordinator (PI) (2012-2016) 4. NUCLEU Program: Study of nanostructured catalysts efficient for hydrogen involving reactions: hydrogen production and H/D isotopic exchange - project coordinator (PI) (2009-2013) 5. Romania – Dubna (Russia) agreement; theme: Investigations of Nanosystems and Novel Materials by Neutron Scattering Methods – coordinator for INCDTIM (2009-2011 and 2012-2018); 6. 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);</p> |