

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **ZAHARESCU MARIA MAGDALENA**

Address(es)

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E-mail mzaharescu@icf.ro [REDACTED]

Nationality Romanian

Date of birth [REDACTED]

Gender female

Desired employment / Occupational field

CNATDCU

Work experience

Dates 1990-present

Occupation or position held Senior researcher 2 and 1 degree, Head of Department (1990-2017), PhD supervisor (1990-present)

Main activities and responsibilities Coordination of the research activity of the "Oxide compounds and Materials Science" Department of the Institute of Physical Chemistry and being supervisor of PhD students in the mentioned field
Research activity in the sol-gel field and nanostructured oxide systems

Name and address of employer Ilie Murgulescu Institute of Physical Chemistry of the Romanian Academy, 202, Splaiul Independenței, 060021 Bucharest, Romania

Type of business or sector Research, management and higher education activity

Dates 1971 – 1990

Occupation or position held Senior researcher 3 degree, Head of Department

Main activities and responsibilities Coordination of the research activity of the "Oxide compounds and Materials Science" Department of the Institute of Physical Chemistry. Initiating and developing the sol-gel research field in Romania

Name and address of employer Centre of Physical Chemistry of the Romanian Academy, 25, Dumbrava Roșie Str., 020462 Bucharest, Romania and 202; from 1977 Centre of Physical Chemistry, Splaiul Independenței, 202 060021 Bucharest, Romania

Type of business or sector Research activity and management

Dates 1969-1971

Main activities and responsibilities Researcher

Main activities and responsibilities Phase equilibria studies in oxide systems $BaO-TiO_2-V_2O_5$, $MgO-TiO_2-V_2O_5$, $NiO-TiO_2$

Name and address of employer Centre of Physical Chemistry of the Romanian Academy, 25, Dumbrava Roșie Str., 700000 Bucharest, Romania

Type of business or sector Research activity
 Dates 1964-1969
 Main activities and responsibilities Researcher
 Main activities and responsibilities Zeolite synthesis and characterization. First studies regarding the synthesis of 4A zeolite in the presence of some polar organic substances .
 Name and address of employer Centre of Inorganic Chemistry of the Romanian Academy, 1, Polizu Str. 700000 Bucharest, Romania

Type of business or sector Research activity
 Dates 1959-1964
 Main activities and responsibilities Chemist
 Main activities and responsibilities Industrial research and development activity in the field of oxides abrasives production
 Name and address of employer Carbochim Factory, 3400 Cluj Napoca, Romania

Type of business or sector Research activity

Education and training

Dates 1974 (February – November)
 Title of qualification awarded Postdoctoral fellowship
 Principal subjects/occupational skills covered Studies of phase equilibria of inorganic systems using an original method with stepwise increasing of temperature, developed during the scholarship; investigation of phase formation by high temperature XRD
 Name and type of organisation providing education and training University of Denmark at Lyngby, Denmark
 Level in national or international classification

Dates 1966 - 1971
 Title of qualification awarded Ph.D in Inorganic Chemistry
 Principal subjects/occupational skills covered Establishing the phase equilibria in the SiO₂-TiO₂-V₂O₅ ternary system
 Name and type of organisation providing education and training Institute of Chemistry, Cluj-Napoca, Romania
 Level in national or international classification ISCED 6

Dates 1954 - 1959
 Title of qualification awarded Bachelor of Science in Inorganic and Analytical Chemistry
 Principal subjects/occupational skills covered Thermal stability of the polymeric ion exchangers. Separation of Pb²⁺ and Cu²⁺ ions on the studied polymeric ion exchangers,
 Name and type of organisation providing education and training Faculty of Chemistry at the Babeş Bolyai University Cluj-Napoca, Romania
 Level in national or international classification ISCED 5

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 | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C2 | Proficient user |

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|---------------|----|------------------|----|------------------|----|------------------|----|------------------|----|------------------|
| French | C1 | Proficient user | C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user |
| German | B2 | Independent user | B2 | Independent user | B2 | Independent user | A2 | Elementar user | B2 | Independent user |

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

Social skills and competences - President of the Honorary Counsile of the Romanian Academy (2018 - present) ;
- Member of the Ethical Commission of the Romanian Academy (2010-2018t)

Organisational skills and competences - Director of the Department of Basic Science at the Graduate School of the Romanian Academy with chemistry, physics, mathematics and informatics profile (2011-onwards)
- Member of the Chemistry Commission at CNADTCU (2005-2015)
- Coordinator of the Chemical Science Section of the Romanian Academy (2006-2009)
- Executive Director of the Grants Commission at the Romanian Academy
- Expertise in EU Projects Management (FP5, FP6, COST Actions) and at national level
- Organizing the "Sol-Gel Science and Technology Symposium" since 1995, as part of the International Conference of Physical Chemistry
- Member in the Organizing Committee of several national and international conferences (ICFPAM, CEEC-TAC, Balkan Conferences on Glass Science and Technologie, Colloques Francophone sur les Matériaux, les Procédés et l'Environnement)

Technical skills and competences

Scientific activity

- 429 scientific published papers of which 295 in referred journals and 134 in proceedings of conferences.
- 2 books published by Springer and Ed.Academiei Romane, respectively
- 6 book chapters, published by WHILEY, SPRINGER, NOVA and INTECH
- 4 book chapters, published by Editura Academiei, Romania
- co-editor of 2 books published by Editura Academiei, Romania
- 3 patents
- 3 applied technologies
- 60 national projects before 1990, at 50 being director
- 22 national project after 1990
- 12 international projects

Teaching activity

- PhD supervisor (1990 – present) with 26 graduated students
- Professor at the international post-graduate School al Jozef Stefan Institute, Ljubljana, Slovenia, 2010-2011)
- Member in PhD defence Commission in France (2), South Africa (1)
- President and member in a high number of PhD and Abilitation commissions in Romania

Invited research visits:

- Jozef Stefan Institute, Ljubljana, Slovenia, 2013, 2011, 2010
- Indian Institute of Chemical Technology Hyderabad, India, 2009
- University of York, UKa, 2007
- Rutgers University, USA, 2007
- Universite Claude Bernard Lyon, France, 2004
- Institute of Radio Engineering and Electronics, Academy of Science of, Prague Czech Republic, 2001
- University of California at Davis, USA, 1999

Plenary and invited lectures at international conferences (selected)

- 2nd Journal of Thermal Analysis and Calorimetry Conference(2nd JTACC+V4 2019), Budapest. Hungary, 2019
- 14th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM 2016), Daejeon, Korea, 2016
- 12th International Conference on Colloid and Surface Chemistry, Iasi, Romania, 2016,
- 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, Ljubljana-Slovenia, 2015
- 11th International Conference on Frontiers of Polymers and Advanced Materials, Marrakech, Morocco, 2014, Auckland, New Zealand, 2012, Pretoria, South Africa, 2010, Santiago, Chile, 2009
- Krakow, Poland-2007, Bucharest, Romania- 2003)
- Materials Science and Technology Conference, Columbus, Ohio, USA, 2011
- E-MRS, Warshow, Poland, 2011
- Gordon Research Conferences, Waterville, USA, 2010

Other activities:

- evaluator of international grants (SUA-Israel, Czech Republic-Germany-Germania, Bulgaria, so on
- member in Editorial Board of Journal of Sol-Gel Science and Technology (Springer), Revue Roumaine de Chimie, Revista de Chimie, Optoelectronics and Advanced Materials-RC, Revista Română de Materiale, Analele Universităţii din Bucureşti
- reviewer at more than 30 scientific journals as: Journal of the American Ceramic Society, Journal of Colloidal and Interfacial Science, Journal of the European Ceramic Society, Journal of Materials Science and Engineering, Journal of Physical Chemistry, Journal of Sol-Gel Science and Technology, Journal of Thermal Analysis and Calorimetry, Materials Chemistry, so on
- The scientific profile was included in publications as: Who is Who in Thermal Analysis and Calorimetry, 2015 (Ed. Springer) and Successful Women in Science and Engineering Ceramics and Glass: Inspirational Profiles, 2016 (Ed. Wiley).

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| Computer skills and competences | Medium (Windows 7, 10 and Vista) |
| Artistic skills and competences | - |
| Other skills and competences | <ul style="list-style-type: none"> - The National Order "Star of Romania", in the rank of knight (2017).. - Member of the Romanian Academy (2015) - "Eugen Segal" Medal of Excellency awarded by the American Chemical Society, Romanian Chapter - "Gheorghe Spacu" Honorary Diploma and Medal awarded by the Romanina Chemical Society (2007) - Corresponding Member of the Romanian Academy (2001) - "Scinetific Merit" Order, 3-rd degree (1983) - "Scinetific Merit" Medal (1982) - "Gheorghe Spacu" Award of the Romanian Academy (1971) - 3-rd egree Award granted by the Ministry of Eduction (1967) |
| Driving licence | B category |
| Additional information | |
| Annexes | List of 15 selected papers |

**Bucharest,
November 22-th, 2019**

Dr. ZAHARESCU MARIA MAGDALENA

