

PERSONAL INFORMATION

Sorin Marius Avramescu



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<https://avramescusorin.webnode.ro/>

Sex Male | Date of birth 31.10.1967 | Nationality Romanian

| Work experience | |
|--------------------------------------|---|
| Dates | 2025-present |
| Occupation or position held | Associate Professor |
| Main activities and responsibilities | Teaching activity: undergraduate and master's courses; dissertation theses coordinator; laboratory work Inorganic and analytical chemistry, Physical and colloidal chemistry, Organic chemistry, Bioinorganic in forensic expertise Research: wastewater treatment by advanced oxidation processes and adsorptive techniques, biological wastewater treatment, purification of gaseous effluents, extraction methods and characterization of natural plant compounds. Multiple use of plant extracts in various fields: phytotherapy, anticorrosive agents, catalytic systems for AOP processes |
| Name and address of employer | University of Agriculture and Veterinary Medicine, Bucharest, Romania |
| Dates | 2005-2025 |
| Occupation or position held | Lecturer |
| Main activities and responsibilities | Teaching activity: undergraduate and master's courses; dissertation theses coordinator; laboratory works Basics of Organic Chemistry, Pharmacology and Toxicology, Natural Compounds with Phytotherapeutic Activity. Research: wastewater treatment by advanced oxidation processes and adsorptive techniques, biological wastewater treatment, purification of gaseous effluents, extraction methods and characterization of natural plant compounds. Multiple use of plant extracts in various fields: phytotherapy, anticorrosive agents, catalytic systems for AOP processes |
| Name and address of employer | University of Bucharest, Faculty of Chemistry, Romania |

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|--|--|
| Dates | 1995-2005 |
| Occupation or position held | Assistant Professor Teaching activity: laboratory work |
| Main activities and responsibilities | Research: wastewater treatment through advanced oxidation processes and adsorptive techniques, biological wastewater treatment, gaseous effluent purification. |
| Name and address of employer | University of Bucharest, Faculty of Chemistry, Romania |
| Education and training | |
| Dates | |
| Title of qualification awarded | License degree |
| Principal subjects/occupational skills covered | Title of the dissertation: "Preparation and testing of hydrogenation catalysts using active components from spent catalysts". Activities involved: active compound recovery from spent catalysts, catalysts preparation and characterisation, catalytic tests in the selective hydrogenation of organic compounds; analysis of the reaction products by gas chromatography, correlation catalytic properties - catalytic performances. |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Chemistry, Romania |
| Level in national or international classification | First category |
| Dates | 1999-2006 |
| Title of qualification awarded | PhD degree |
| Principal subjects/occupational skills covered | Title of the thesis: "Catalytic purification of wastewaters contaminated with inorganic compounds" Activities involved: catalysts preparation, catalytic tests in water environment, assessment of advanced oxidation processes, oxidation of complex mixture of pollutants, physicochemical characterization of the solid: X ray diffraction, FTIR and DRIFT Spectroscopy, BET, Electron Microscopy, TG/DTA, hydrogen chemisorption. |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Chemistry, Romania |
| Level in national or international classification | First category |

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

 Self-assessment
European level ()*
Language
Language

| Understanding | | | | Speaking | | | | Writing | |
|---------------|---------|---------|---------|--------------------|---------|-------------------|---------|---------|---------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C1 | english | C1 | english | C1 | english | C1 | english | C1 | english |
| C1 | french | C1 | french | C1 | french | C2 | french | C2 | french |

 (*) [Common European Framework of Reference for Languages](#)

Social skills and competences

- Versatile and efficient either as a team member or on independent assignments
- Desire to learn more
- Good communication skills
- Good adaptability

Computer skills

Microsoft Excel

Microsoft Access

Microsoft PowerPoint

These skills were acquired during professional training.

Organisational skills and competences

2001-present Member of the Romanian Chemical Society

2000-present Member of the Romanian Catalysis Society

Driving license

Category B since 2003

Technical skills and competences

a) Teaching using multimedia tools

b) Other practical skills in fields like: computers, mechanical equipment, thermo-mechanical processes, materials, science:

- Preparation of inorganic nanomaterials and composite nanomaterials
- Heterogeneous catalysis
- Oxidation and photooxidation reactions in water and gas phase
- Removal of pollutants from water using adsorption processes
- Analytical methods: HPLC, GC, GC-MS etc.
- Determination of surface and bulk properties: BET, XRD, FTIR
- Natural compounds extraction from vegetal matrix using different methods (microwave, ultrasound etc.).

Other skills and competences

Majors achievements

Projects:

- 5 national projects - as principal investigator
- 25 national projects – as team member

Publications:

- 6 national patent
- 7 book chapters
- 1 book author
- 1 book editor
- 70 ISI papers

Communications:

- Over 60 international conferences as oral presentations and posters

Reviewer for scientific publications:

- Catalysis Communications
- Microporous & Mesoporous Materials
- Chemical Engineering Journal
- Applied Nanoscience
- Instrumentation Science & Technology
- Clean Technologies and Environmental Policy.
- Antioxidants (MDPI)
- Molecules (MDPI)
- Coatings (MDPI)
- Plants (MDPI)
- Materials (MDPI)
- Sustainability (MDPI)

Member of the Romanian Chemical Society since 2007

Member of Eurachem Romania

Contributions to the accreditation of two laboratories according to SR EN ISO 17025/2005 by RENAR:

“Environmental quality monitoring and control (accreditation certificate no. 442-L/2007)

“Analysis and tests for food product control (accreditation certificate no. 442-L/2007)

h-index (WOS) – 18; h-index (GS) - 19, h-index Scopus -19

Annexes | List of publication