



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Irina Atkinson**
Address(es) Bucharest, Romania

Telephone(s) + 40.21. 3167912, ext. 26 Mobile:
Fax(es) +40 021 3121147
E-mail iatkinson@icf.ro
Nationality Romanian

Gender Female

Dates **2021 – present**

Occupation or position held Head of Oxide Compounds and Material Science Department
Main activities and responsibilities Managed a research team of over 20 members to achieve scientific goals, efficient scientific collaboration, and organizational coordination.

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

Dates **2019 – present**

Occupation or position held Scientific Researcher II
Main activities and responsibilities Research activity in the field of physical chemistry of oxide systems, bio-glasses
Name and address of employer Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy, 202, Splaiul Independentei, 060021 Bucharest, Romania

Dates **2014 – 2019**

Occupation or position held Scientific Researcher III
Main activities and responsibilities Scientific research focused on the physical chemistry of oxide systems, nanomaterials, biomaterials, and materials characterization using X-ray diffraction (XRD) and X-ray fluorescence (XRF).
Name and address of employer Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy, 202, Splaiul Independentei, 060021 Bucharest, Romania

Dates **2010 – 2014**

Occupation or position held Scientific Researcher
Main activities and responsibilities Scientific research focused on the physical chemistry of oxide systems, nanomaterials, biomaterials, and materials characterization using X-ray diffraction (XRD) and X-ray fluorescence (XRF).
Name and address of employer Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy, 202, Splaiul Independentei, 060021 Bucharest, Romania

Dates **2001 - 2010**

Occupation or position held Assistant Researcher
Main activities and responsibilities Scientific research focused on the physical chemistry of oxide systems, glasses, and glass ceramics, and materials characterization using X-ray diffraction (XRD) and X-ray fluorescence (XRF).
Name and address of employer Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy, 202, Splaiul Independentei, 060021 Bucharest, Romania

Education and training

Dates September 2004-September 2005

Title of qualification awarded Marie Curie fellowship

Principal subjects/occupational skills covered "Multinuclear Solid State NMR Investigations of Silicate-Based Ceramic Glazes"

Name and type of organisation providing education and training University of Warwick, UK

Dates **2009**

Title of qualification awarded **Ph.D in Chemical Engineering**

Principal subjects/occupational skills covered Preparation and investigation of ceramic glazes with improved properties

Name and type of organisation providing education and training Politehnica University of Bucharest

Level in national or international classification ISCED 5

Dates **1998**

Title of qualification awarded **Chemical Engineer**

Principal subjects/occupational skills covered Oxide Materials Science and Engineering

Name and type of organisation providing education and training Politehnica University of Bucharest, Faculty of Industrial Chemistry, Bucharest Romania

Other language(s)

Self-assessment

European level (*)

Understanding

Listening

Reading

Speaking

Spoken
interaction

Spoken
production

Writing

	English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
	French	B2	Independent user	B2	Independent user	A2	Basic user	A2	Basic user	A2	Basic user
Organisational skills and competences		Managerial experience									
		<p>-PhD supervisor, IOSUD-SCOSAAR, Chemistry domain (Romanian Academy)-2023</p> <p>-Head of Oxide Compounds and Material Science Department at the Institute of Physical Chemistry of the Romanian Academy since June 2021 (managed a team of more than 20 researchers).</p> <p>- Member of the Scientific Council of the Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy (2021-present)</p> <p>-Coordinator of the Materials Science and Advanced Characterization Methods Research Program (Program 6) within the research plan of the Institute of Physical Chemistry - Ilie Murgulescu, Romanian Academy</p> <p>Project leader: Functionalized mesoporous bioglass-based 3D scaffolds for hard tissue regeneration (BIOSCAFTIS), PN-III-P2-2.1-PED-2019-0598-600000 lei https://www.icf.ro/pr_2019/BIOSCAFTIS/index.html</p> <p>Project leader: Development of a new generation of eco-friendly flame retardant products for the treatment of cellulose-based materials, PN-IV-P7-7.1-PED-2024-0582-budget 750000 lei (152010 co-financing)</p> <p>Project leader of 3 Joint Research Projects between the Romanian Academy and the Hungarian Academy of Sciences, and between the Romanian Academy and the Bulgarian Academy of Sciences</p> <p>Research team member in more than 20 national projects and 2 joint research projects</p> <p>Member of the organizing Committee of the Summer School of the COST Action MP0902-(COINAPO)-2012 and International Conference Romphyschem 15th edition (2013), 16th edition (2016), and 17th edition (2023).</p> <p>Polish National Science Centre (PRELUDIUM 10 call for research projects 2016)</p> <p>Polish National Science Centre (OPUS 24 call for research projects 2024)</p>									
	Expert evaluator										
	Research area and Technical skills	Physical chemistry of silicates; nanomaterials, glass and glass ceramics, mesoporous bioactive glasses; sol-gel route; hydrothermal method. Expertise in the following techniques for materials characterization: X-ray diffraction (XRD), X-ray fluorescence (XRF), IR spectroscopy, and nuclear magnetic resonance (MAS-NMR of ²⁷ Al and ²⁹ Si)									
	Publications	More than 138 scientific papers published in refereed journals and proceedings of conferences; More than 150 presentations at national and international conferences; 3 patent applications; More than 1400 citations, h-index 22 (scopus)									
	Computer skills	Proficient in Microsoft Office, OriginLab									
	Reviewer	Reviewer for ISI journals: J. Therm. Anal. Calorimetry, J. Sol-Gel Sci.Technol., J. Chem. Eng. Mater. Sci. J Alloy Compd., Ceram. Int., Int. J. Biol. Macromol. Acta Biomater.									
	Seminars	Course Coordinator: X-ray Diffraction – Methods of Structural Characterization of Chemical Compounds, as part of the advanced university training program at the School for Advanced Studies of the Romanian Academy (SCOSAAR).									
	Additional Information	<p>"Ilie Murgulescu" Award from the Romanian Academy (2019) for the research "Advanced materials and nanomaterials with tailored design and properties for multiple applications." Member of the Romanian Chemical Society.</p> <p>-Member of the Romanian Chemical Society</p>									

Selected Publications

1. **I. Atkinson***, A.-M. Seciu-Grama, A. Serafim, S. Petrescu, M. Voicescu, E. M. Anghel, C. Marinescu, R. A. Mitran, O. C. Mocioiu, J. Pandele Cusu, D. Lincu, A.-M. Prelipcean, O. Craciunescu, Bioinspired 3D scaffolds with antimicrobial, drug delivery, and osteogenic functions for bone regeneration, *Drug Deliv Transl Res*, **2024**, 14,1028–1047. (Pharmaceutical Science -Q1)
2. **I. Atkinson***, O.C. Mocioiu, E.M. Anghel, A study of zircon crystallization, structure, and chemical resistance relationships in ZrO₂ containing ceramic glazes/Un estudio de cristalización de circon, relaciones de estructura y resistencia química en esmaltes cerámicos que contienen ZrO₂, *Bol. Soc. Esp. Ceram*, **2022**, 61(6), 677-685 (Q1).
3. M. Chelu, J. Calderon Moreno, **I. Atkinson**, J. Pandele Cusu, A. Rusu, V. Bratan, L. Aricov, M. Anastasescu, A.-M. Seciu-Grama, A. M. Musuc, Green synthesis of bioinspired chitosan-ZnO-based polysaccharide gums hydrogels with propolis extract as novel functional natural biomaterials, *Int. J. Biol. Macromol*, **2022**, 211, 410- 424. (Q1)
4. C.D. Ene, P. Cucos, A. Ianculescu, D.C. Culita, E.M. Anghel, A. Cucos, **I. Atkinson**, M.C. Chifiriuc, J.M Calderón-Moreno, O. Carp, Benign by design: porous spherical ZnO alginate family via a dual-template synthesis, *Appl. Surf. Sci.*, **2022**, 580, art. no. 152231. (Q1)
5. Craciun, F., Cordero, F., Cernea, M., Fruth, V., **Atkinson**, I., Stanica, N., Vasile, B.S., Trusca, R., Iuga, A., Galizia, P., Galassi, C. Multiferroic (Nd,Fe)-doped PbTiO₃ ceramics with coexistent ferroelectricity and magnetism at room temperature, *Ceram. Int.*, **2019**, 45 (7), pp. 9390-9396
6. **Atkinson**, I.*, Anghel, E.M., Petrescu, S., Seciu, A.M., Stefan, L.M., Mocioiu, O.C., Predoana, L., Voicescu, M., Somacescu, S., Culita, D., Zaharescu, M. Cerium-containing mesoporous bioactive glasses: Material characterization, in vitro bioactivity, biocompatibility and cytotoxicity evaluation, *Microporous Mesoporous Mater.*, **2019**, 276, pp. 76-88. (Q1)

*corresponding author

Data:
01.09.2025