

PERSONAL INFORMATION

Ianculescu Adelina-Carmen



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WORK EXPERIENCE

2000–2016 **University teacher: assistant professor (2000 - 2004), associate professor (2004 - 2008), professor (2008 - present), professor PhD coordinator - Habilitation (2011 - present)**

"POLITEHNICA" University of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh. Polizu, district 1, 011061, <http://www.chimie.upb.ro/>, Bucharest (Romania).

Teaching and research activity

2002–2003 **CNRS - Associated Senior Scientist**

Inter-University Research and Engineering Centre on Materials – C.I.R.I.M.A.T. - UMR 5085, 118 Route de Narbonne 31062, Paul Sabatier – Toulouse III University, Toulouse, France.

Research activity, activity for mentoring MD and PhD students, member of the evaluation committee of dissertation theses for MD.

2001–2002 **CNRS - Associated Senior Scientist**

Laboratory of Electrical Engineering (current name: Laboratory of Plasma and Energy Conversion) - UMR 5213, 118 Route de Narbonne 31062, Paul Sabatier University – Toulouse III, Toulouse, France.

Research activity

1990–2000 **Scientific researcher (CS - 1990 - 1995), Senior Scientist - third degree (CSIII - 1995 - 2000)**

Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy (Laboratory of Oxide Compounds and Materials Science), 202 Splaiul Independenței, District 6, 77208, <http://www.icf.ro/>, Bucharest (Romania).

Research activity

1987–1990 **Engineer in Chemistry**

Special Steels Factory – Targoviste (Laboratory of Raw Materials Control), 9 – 11 Sos. Gaesti, <http://www.cos-tgv.ro/>, Targoviste (Romania).

Technical quality control, research activity

EDUCATION AND TRAINING

Feb. 1989 – Nov. 1996

PhD / PhD diploma (Area of expertise: Chemistry (Technology of Silicates and Oxide Compounds))

POLITEHNICA University of Bucharest, Bucharest (Romania)

Technology of Ceramics and Refractory Materials / Electroceramics; Solid State Physical Chemistry / Phase Equilibria in Oxide Systems

Sep. 1982 – July 1987 **Engineer / MD diploma (Specialization: Chemistry / Technology of Silicates and Oxide Compounds)**
 "POLITEHNICA" University of Bucharest, Bucharest (Romania)
 Technology of Ceramics and Refractory Materials / Electroceramics; Solid State Physical Chemistry / Phase Equilibria in Oxide Systems, Physical Chemistry of Non-crystalline Systems; Binders Technology, Operations and Equipments in Silicates and Oxide Compounds Industry

Sep. 1978 – July 1982 **High School Diploma**
 High School no. 18 of Bucharest, Bucharest (Romania)
 Mathematical Analysis, Algebra, Geometry, Physics (Thermodynamics, Mechanics, Electricity and Magnetism, Optics, Molecular and Nuclear Physics), Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Computer Sciences.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C2
German	C1	C2	C2	C1	C1
English	C1	C1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Good communication skills gained through:

- attendance at courses in pedagogy (certificate no. 917 / 10,076 / 11.06.2003) at the "Politehnica" University of Bucharest;
- own experience gained through: (a) supporting teaching with pronounced interactive character; (b) directing students in projects / dissertation projects and (c) coordination graduates and doctors involved in post-doctoral studies.

Organisational / managerial skills

- Coordinator / partner team leader (UPB) of 14 national projects and 5 international projects, involving management activities and responsibility of teams of more than 10 people;
- Member of the National Council for Attesting University Diplomas, Degrees and Certificates, Engineering Sciences Panel, Commission no. 8. Chemical engineering, medical engineering, materials science and nanomaterials (2016 - present);
- Chair of Analysis Committee for appeals against decisions of the National Council for Attesting University Titles, Diplomas and Certificates (C.N.A.D.T.C.U.) - Field: chemical engineering, medical engineering, materials science and nanomaterials (2012 - present);
- Member of the National Council for Attesting University Diplomas, Degrees and Certificates, Engineering Sciences Panel, Commission of Materials Engineering & Nanotechnology (2011 – 2012);;
- Member of the Board of the Doctoral School of the Faculty of Applied Chemistry and Materials Science from "Politehnica" University of Bucharest (2012 - present);
- Board Member of the Faculty of Applied Chemistry and Materials Science (2008 - 2016);
- **Member of the Council of the European Ceramics (<http://ecers.org/en/about-us/council-members.html>)**
- Member of the Management Committee of the European Program COST MP0904;

- Coordinator of scientific research within 3MN Technology Platform (Micro and Nanostructured Multifunctional Materials);
- Member of the Board of the Department of Materials Science and Engineering of Oxide Materials and nanomaterials (2008 - 2012);
- Member of the Organizing Committee of some international conferences: "Seventh International Conference on Frontiers of Polymers and Advanced Materials" ICFPAM, Bucharest June 10 - 15, 2003, several editions of the Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), International Conference of Physical Chemistry - ROMPHYSICHEM and European Symposium on Thermal Analysis and Calorimetry - ESTAC.

Job-related skills

- Synthesis by wet chemical methods of oxide nanopowders (sol-gel techniques, Pechini procedure, hydrothermal method, co-precipitation) and 1D nanostructures: wires, nanotubes and nanoshell tubes (template-mediated colloidal chemistry);
- Elaboration of oxide thin and thick films (chemical solution deposition, rf-magnetron sputtering, Pulsed Laser Deposition and tape casting);
- Skills acquired in handling and operation with a high performance spark plasma sintering (SPS) equipment in order to obtain nanostructured ceramics and composites;
- In the laboratories afferent to the Technology Platform 3MN (Micro and Nanostructured Multifunctional Materials) I acquired knowledge in using the following experimental techniques: electron microscopy (FE-SEM, TEM / HRTEM / SAED), AFM / PFM / MFM, FT-IR and Raman spectroscopy, X-ray diffraction, thermal analysis methods.

Digital competence

- A good knowledge of Microsoft Office™ tools (Word, Excel, PowerPoint, Publisher, Access);
- A good knowledge of computer graphics (Adobe PhotoShop) and Origin 9.0.
- Operating with programs and professional databases (CrystalMaker, Match, Carine V.3., Keramos, Pcpdfwin, Phase Equilibria Diagrams 3.1).

Other skills

Pedagogy (certificate no. 917 / 10.076 / 11.06.2003)

ADDITIONAL INFORMATION

Publications

- 200 scientific articles published in: (a) ISI-quoted journals - 125; (b) journals indexed in international databases - 30; (c) national journals - 2; (d) proceedings of international scientific conferences - 24 and (e) volumes of national scientific conferences - 19; Most of the articles were published in ISI-quoted journals in prestigious foreign publishing houses: ACS, RCS, Wiley, Elsevier, Springer, AIP, IOP Science, Taylor & Francis;
- Number of citations: 2175 citations (Scopus); 1991 (ISI Web of Science); 2627 (Google Scholar);
- Hirsch citation index, **h = 28** (Scopus); **h = 26** (ISI Web of Science); **h = 31** (Google Scholar); Hirsch citation index excluding self citations (Scopus) **h* = 26**.
- 7 books: The monograph "Ba(Ti,Zr)O₃ - Functional Materials: From Nanopowders to Bulk Ceramics", authors: **Adelina lanculescu**, Liliana Mitoşeriu published in NovaScience Publishers Inc, Hauppauge New York USA, 2010, ISBN-10: 1616687525; ISBN-13: 978-1-61761-779-9, was acquired by **722** libraries belonging to universities and colleges in USA, Canada, Australia, New Zealand, India, China, Hong Kong, Taiwan, Singapore, Korea, South Africa, UK, France, Germany, Italy, Sweden, Denmark, Norway, Netherlands, Russia, Poland, Hungary, Slovenia, Turkey, Greece, Cyprus, Mexico, Brazil, Columbia, etc., according to the website: <http://www.worldcat.org/>;
- 10 book chapters: 9 book chapters published in prestigious publishing houses abroad: Elsevier - UK (2), Wiley - USA (1), NovaScience - USA (2), InTech - Croatia (1), Transworld Research Network - India (3) and 1 chapter in a national publishing house (Printech);
- 7 national patents granted (OSIM) and 4 national patent applications.

Conferences

406 contribution as first author or co-author of national and international scientific meetings (in the form of plenary lecture / keynote lecture, oral presentation or poster presentation).

Key note / plenary lectures & Invited talks

- 18 plenary lectures and / or key note lectures presented at scientific events (congresses, conferences, symposia, seminars, workshops, etc.), national and international;
- 6 invited lectures / 12 invited courses abroad (University Paul Sabatier III of Toulouse and University of Limoges, France, 2001 - 2005);
- 2 invited lectures in the country (University Al. I. Cuza, Iași, Romania, 2008).

Projects

- 19 research projects as director / responsible UPB (including 5 international projects) obtained through competition;
- 22 research projects as a team member (including 1 international project) obtained through competition;
- 3 projects Socrates - Erasmus with University of Limoges, France, as a member of the research team, obtained through competition.

Honours and awards

- **Award "I. G. Murgulescu" of the Romanian Academy** - awarded in 2003 for the works in the topic "Correlations formation mechanism - structural characteristics in perovskite-based oxide materials";
- Award LOT Oriol & Hamamatsu (Hamamatsu Award) for the work "*Functional properties of the (1-x) BiFeO₃ - xBaTiO₃ solid solutions*" presented at the 9th European Conference on Applications of Polar Dielectrics, Rome (Italy), 26 to 29 August 2008;
- Certificates "Dyes and Pigments - Top Cited Papers for 2010 and 2011" (Elsevier New York, USA), for the group of authors: D. Visinescu, C. Paraschiv, Ianculescu A., B. Jurca, Basil B., O. Carp for the work: "*The environmentally benign synthesis of nanosized Co_xZn_{1-x}Al₂O₄ blue pigments*" published in Dyes and Pigments (Elsevier), 87 [2], 2010, 125-131.

Member of Scientific Societies

- 1993 - present, Romanian Ceramic Society;
- 1993 - present, European Ceramic Society;
- 1998 - present, Romanian Chemistry Society;
- 2000 - present, Romanian Society of Advanced Materials;
- 2007 - present, Romanian Commission for Thermal Analysis and Calorimetry;
- 2008 - present, International Confederation for Thermal Analysis and Calorimetry,;
- 2011 - present, Romanian Electron Microscopy Society (REMS);
- 2013 - present, Council of the European Ceramic Society;
- 2019 - present, International Committee of the Electroceramics Network.

