

PERSONAL INFORMATION

Georgeta VELCIU



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Sex : F | Date of birth 01/09/1958 | Nationality Romanian

POSITION WITHIN THE PROJECT

Project responsible

Currently ÷ 2011

Leadership of the Ceramic Materials Group

National Institute for Research and Development in Electrical Engineering INC DIE ICPE-CA, Splaiul Unirii, 313, sector 3, 030138, Bucharest, Romania, www.icpe-ca.ro

- coordinating research projects with application in electrical and energy industry; development of the new and advanced ceramic materials; the characterization of the ceramic materials; coordination activities in the department of the ceramics materials

Business or sector : Research and Development

March 2007÷ 2008

IDT I- researcher

National Institute for Research and Development in Electrical Engineering INC DIE ICPE-CA, Splaiul Unirii, 313, sector 3, 030138, Bucharest, Romania, www.icpe-ca.ro

- coordinating research projects with application in electrical and energy industry; new and advanced materials; experiments and characterization of ceramic materials

Business or sector: Research and Development

1996÷ March 2007

Senior Researcher

National Institute for Research and Development for Energy, Romania - ICEMENERG, Bd. Energeticienilor, sector 3, Bucharest, Romania

- coordinating research projects with application in electrical and energy industry; new and advanced materials; experiments and characterization of ceramic materials

Business or sector: Research and Development

Aug 1995÷ Mar 1996

Chemist Engineer

SC CESAROM SA, Bd. Preciziei, sector 6, Bucharest, Roamnia

- Technical Bureau activity; technical assistant in the Department Plywood and Ceramic Pavement

Business or sector: Production

WORK EXPERIENCE

Nov 1986- Dec 1989 **Senior Researcher**
 Research and Design Institute for Electrical Engineering - ICPE, Splaiul Unirii 313, sector 3, Bucharest
 - scientific research cordierites dense and porous ceramics materials; activity coordination and implementation of new products (filters and automotive catalysts support, ceramic tiles for the subway equipment, ceramic support for power equipment, etc
Business or sector: Research and Microproduction

Dec 1989 ÷ Aug1995 **Engineer training**
 Refractory Products Factory "VULTURUL" Comarnic, Jud. Prahova, Romania
 - operation refractory bricks and concrete section; coordinating production of refractory bricks; CTC Technical Coordination Office-Laboratory Activity
Business or sector: Production

EDUCATION AND TRAINING

2011-2017 **Ph.D. engineer**
 Doctoral School of the Faculty of Applied Chemistry and Material Science from Politehnica University of Bucharest, Romania
 ▪ Nano and Microstructural Multifunctional Materials, Ceramic Advanced Materials Electroceramics, Ceramic Products Technology

1982-1986 **Chemist Engineer**
 Politehnica University of Bucharest / Faculty of Chemical Technology, Department of Glass Technology and Inorganic Compounds
 Inorganic chemistry, physical chemistry of silicates, kiln technology and equipment, glass technology, ceramic technology, binders and concrete technology

PERSONAL SKILLS

Mother tongue(s) **Romanian**

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	A2	A1	B1
	Replace with name of language certificate. Enter level if known.				
French	B2	B2	A2	A1	B1
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Skills acquired through participation in research projects in networking and collaboration
- Team spirit and ability to adapt to multicultural environments.
- Good communication skills gained through my experience as sales manager

- Organisational / managerial skills
- Leadership for the Ceramic Materials Group
- Job-related skills
- Capacity in the organization the systems of the complex analysis and evaluation of specific R & CD
 - Management experience by managing different research teams in the research projects

Digital competence

SELF-ASSESSMENT

Information processing

Communication

Content creation

Safety

Problem solving

Basic user

Basic user

Basic user

Basic user

Basic user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Driving licence B

ADDITIONAL INFORMATION

- Publications**
Projects Example of publication: in Annexes
 Manager and responsible projects (selection from 15): 2012-2013, PN-09-35-02-03, Insulating coatings with ceramic "microspheres" (TMC); IUCN theme no: 04-4-1121-2015-2017-Preparation and characterization of the perovskite materials for SOFC electrodes; 2014-2017, 2014-2017-PN-II-PT-PCCA no.50/2014 "Mortar systems composite microspheres based for bricklaying, plastering and protection", etc
- Patentes**
 RO 127170 A0 /26.02.2016, "Process for obtaining a resorbable material from tricalcium beta-phosphate"
 RO128735-B1/19.08.2014, "Perovskite ceramic material composition"
 RO128210-B1/ 29.03.2014, "Process for obtaining microporous ceramic granules based on calcium phosphates"
- Honours and awards**
 Silver medal - "Process for obtaining microporous ceramic granules based on calcium phosphates", International Geneva Salon of Inventions, Switzerland, 2013
 Silver medal - "Process for obtaining microporous ceramic granules based on calcium phosphates", EUREKA, Brussels/ 2013- Silver medal
 Silver medal - "Ceramic materials of perovskite compounds for dense membranes separating oxygen" at the Salon from "BRUSSELS EUREKA 2006"
 Bronze medal - "System film coating anti Corrosion protection", International Exhibition of Inventions, Research and Technology Transfer – Inventica 2002, Iași, Roamnia
 Bronze medal, "Asbestos-free sealing compound", International Exhibition of Inventions, Research and Technology Transfer – Inventica 2002, Iași, Roamnia
 Bronze medal, "Asbestos-free sealing compound", Eureka, Brussels 2001
- Memberships**
 Roman Ceramic Society – CEROM
 IEEE Society
- Courses**
 Training course solid electrolyte fuel cells project no. 60/2006 Program CEXX Mod III – UPB, 2006
- Certifications**
 International Summer School on: FUEL CELLS – FUNDAMENTALS - Materials & Electrochemical Aspects – Sibiu, July 17th – July 20th, 200, Romania
 International Summer School on: Crystal Growth and Photovoltaic Materials, Brasov 2012, Romania

ANNEXES

List of scientific works

- Georgeta Velciu, Adelina Inaculescu, Alina Melinescu, Virgil Marinescu, Maria Preda, „Study of the reactions at formation of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3-\delta}$ ($x=0,1-0,3$) prepared by mechanical activation”, *Revista de Chimie*, vol. 68, nr. 9, 2017, pp. 2043-2047, ISSN 0034-775
- Georgeta Velciu, Alina-Ruxandra Caramitu, Adriana Moanță, Jana Pinte, Ladislau Radermacher, Iosif Lingvay, ”Comportarea electrică și dielectrică a unor mortare de ciment”, *Electrotehnică, Electronică, Automatică*, vol. 65, nr.3, 2017, pp. 106-111
- Georgeta Velciu, Alina Melinescu, Adelina Inaculescu, Virgil Marinescu, Maria Preda, Traian Zaharescu, ”Comparative study on sintering behaviour of LaCoO_3 ceramics obtained by mechanical activation with single-and two-step firing”, *U.P.B. , Sci. Bull. Series B, Vol. 78, Iss. 4, 2016*, pp. 109-120, ISSN: 1454-2331
- T.Zaharescu, A.Dumitru, M.E.Lungulescu, G.Velciu, EPDM composite membranes modified with cerium doped lead zirconate titanate, *Radiation Physics and Chemistry, RADIATION PHYSICS AND CHEMISTRY*, vol. 118, pp. 133-13, 2016
- V. Tsakiris, W. Kappel, G. Velciu, C. Seitan, D. Talpeanu, F. Clicinschi, C. Hajdu, V. Marinescu, Joining of Y_2O_3 -Doped Aluminum Nitride with High Density Graphite by Spark Plasma Sintering, *Advanced Materials Research*, Vol. 1111, pp. 260-265, 2015, ISSN1662-8958
- Georgeta Velciu, Alina Melinescu, Virgil Marinescu, Maria Preda, LaCoO_3 synthesis by intensive mechanical activation, *Ceramics International* 41(2015) pp. 6876–6881
- Georgeta Velciu, Alina Melinescu, Virgil Marinescu, Vitor Fruth, Rareș Scurtu, Maria Preda, Synthesis and characterization of solid electrolytes based on CeO_2 for intermediate temperature fuel cells, *Romanian Journal of Materials*, 44 (2), 2014, pp.131-140, ISSN 1583-3186
- J.Pinte, A. Dumitru, G.Sbarcea, G. Velciu, Electrical properties of Lead Titanate Zirconate ceramics doped with niobium, *Journal of Optoelectronics and Advances Materials*, vol. 15, no. 1-2, January-February 2013, p.99-102
- Georgeta Velciu, Cristian Șeitan, Alina Dumitru, Virgil Marinescu, Maria Preda, Alina Melinescu, The characterization of structure and microstructure at interfaces cathode/electrolyte/anode for a fuel cell with solid electrolyte, *Romanian Journal of Materials*, 43 (1), 2013, pp.96-101, ISSN 1583-3186
- Alina Dumitru, Georgeta Velciu, Virgil Marinescu, Gabriela Sbarcea, The elaboration of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-PbZrO}_3$ solid solutions, *Romanian Journal of Materials*, 42 (3), 2012, pp.290-293
- Florentina Grigore, Magdalena Lungu, Diana Savu, Mihai Radu, Georgeta Velciu, Preparation, Characterization and biological evaluation of tricalcium phosphate granules, *Romanian Journal of Materials*, 42 (2), 2012, pp.69-75
- Florentina Albu, Cristian Șeitan, Christu Țârdei, Violeta Tsakiris, Georgeta Velciu, High Mechanical Properties of Si_3N_4 and SiC based Ceramic Composites, *Romanian Journal of Materials*, 42 (2), 2012, pp.164-171
- Georgeta Velciu, Peter Storch, Alina Melinescu, Virgil Marinescu, Synthesis and characterization of the Cu/CeO_2 mixture resulted from chemical precipitation in view of using it as an anode for SOFC-IT, *Romanian Journal of Materials*, 41(2), 2011, pp.162-168, ISSN 1583-3186,
- Alina Melinescu, Georgeta Velciu, Virgil Marinescu, Maria Preda, Main constituent elements for cells SOFC-IT, *Romanian Journal of Materials*, 41(3), 2011, pp.262-268, ISSN 1583-3186
- Georgeta Velciu Alina Melinescu, Peter Storch, Marinescu Virgil, ”Synthesis and characterization of the CuO/CeO_2 mixture resulted from chemical precipitation in view of using it as an anode for SOFC- IT”, *Romanian Journal of Materials*, 20011, 41(2),162-168, ISSN 1583-3186

