PERSONAL INFORMATION

Bizo Liliana

liliana.bizo@ubbcluj.ro

Sex Feminine | Nationality Romanian

POSITION

Associate professor

WORK EXPERIENCE

March 2022 – present

Associate professor

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Teaching activities: Chemistry and Technology of Ceramics and Refractories (C+L), Glazes and ceramic pigments (C+L), Physical-chemical basis of oxidic solids (C+L), Ceramics, binders and vitreous materials and advanced processing methods (C+L), Advanced ceramic materials (C+L), Oxidic biomaterials (C+L)
- Research activities: Structural and physical properties study of new transparent conducting oxides (TCOs), Oxidic biomaterials

Education and Research

March 2017 – Febr. 2021

Lecturer

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Teaching activities: Oxide materials science (C+L), Glazes and ceramic pigments (L), Physical-chemical basis of oxidic solids (L), Ceramics, binders and vitreous materials and advanced processing methods (C+L), Programming and use of computer with engineering applications (L), Advanced ceramic materials (C+L), Oxidic biomaterials (C+L)
- Research activities: Structural and physical properties study of new transparent conducting oxides (TCOs), Oxidic biomaterials

Education and Research

April 2014 – March 2017

Assistant

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Teaching activities: Nanomaterials (L), Oxide Materials Science (C+L), Glazes and Ceramic Pigments (L), Chemistry and Technology of Ceramics and Refractories (L), Operations and Equipments in Oxidic Materials Industry (L)
- Research activities: Structural and physical properties study of new indium-based transparent conducting oxides for optoelectronics

Education and Research

Sept. 2012 – July 2014

Researcher

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Member in the team of the research project: Innovative systems for carbon dioxide capture applied to energy conversion processes
- Role: Design and operation of chemical looping unit

Research

Nov. 2010 – Oct. 2012

Postdoctoral researcher

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Research Programme: Collective processes and control in complex systems (V)
- Title of Individual de Research Project: Study of collective phenomena in colloidal nanodisperse systems

Research

Nov. 2008 – Oct. 2010

Researcher- project director

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Title of the project: Modeling of interdependency between preparation process and properties of new transparent conducting oxides based on indium oxide
- Role: Samples preparation by solid state reactions and sol-gel route; X-ray diffraction measurements; optical and electrical measurements; modeling and simulation of properties, logistic and managerial activities.

Research

EDUCATION AND TRAINING

Oct. 2003 – Dec. 2007

PhD Diploma: Speciality: Chemistry of Materials

Université de Caen Basse-Normandie, Caen, France, University of Liverpool, Department of Chemistry, United Kingdom

- Title of the PhD thesis: New transparent conducting oxides (TCOs) with an oxygen deficient fluorite like structure containing antimony (V) or the cationic pairs M(II)/Sb(V) or Sn(IV): crystal chemistry and physical properties
- Indium-based transparent conducting oxides (TCOs): preparation by solid state reactions, characterization by X-ray diffraction measurements, structure calculation using Rietveld and GSAS refinement of data, optical, electrical and magnetic measurements

Oct. 1999 - June 2001

Master Diploma; Speciality: Materials Science and Technology

Babeş-Bolyai University, Faculty of Physics, 1 M. Kogalniceanu Street, 400084 Cluj-Napoca, Romania, http://phys.ubbcluj.ro/

- Title of the Master thesis: The study of magnetic properties of Fe_2O_3-B_2O_3-CaO glasses
- Ceramic and glass-ceramic materials, Materials studied by spectroscopic methods, Polymers and composite materials, Biomaterials, Modern technologies of materials synthesis

Oct. 1991 - June 1997

Chemical Engineer Diploma; Speciality: Technology of Inorganic Substances

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János Street, 400028, Cluj-Napoca, Romania, http://chem.ubbcluj.ro/

- Title of the thesis: Red iron oxide pigment
- Chemistry and Technology of Inorganic Materials

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
French	C2	C2	C1	C1	C1
English	C2	C2	C1	C1	C1

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Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Capacity of work in international and national research teams, Interpersonal skills, Communication, Responsibility, Intercultural skills

Organisational / managerial skills

- Member of organizing comitee of „11th European Conference on Solid State Chemistry" ECSSC XI, 11-13 septembrie 2007, Caen, France
- Project manager diploma

Job-related skills

- Conventional and unconventional preparation methods of oxides; X-ray diffraction measurements (Philips and X'pert diffractometers), magnetic measurements (MPMS SQUID magnetometer), optical measurements (Double beam Cary Varian Spectrophotometer), electrical measurements (PPMS device), particle size analysis (SALD-7101 Shimadzu particle size analyzer).
- Participation to high level experiments during the doctoral stage (ISIS Polaris, CCLRC Rutherford Appleton Laboratory, UK and Daresbury Synchrotron Radiation Source, station 9.1- High Flux Powder Diffraction, UK).

Computer skills

- Knowledge in data processing and use of the software: Microsoft Office, Excel, Origin, FullProf, GSAS, MATLAB

Driving licence

- Category B

ADDITIONAL INFORMATION

Awards

- Excellence Diploma and Gold Medal at the International Salon of Inventions ProInvent 2014, Cluj-Napoca, Romania, "Building material from wood waste", authors: Barabás Réka, Fazakas Jozsef, Pop Alexandru, Bizo Liliana

Profile addresses

- Scopus Author ID: https://www.scopus.com/authid/detail.uri?authorId=6603302997
- ORCID: https://orcid.org/0000-0002-8775-8492
- Researcher ID: https://publons.com/researcher/3127674/liliana-bizo/
- Google Scholar: https://scholar.google.com/citations?hl=en&user=lhdN
- k5cAAAAJ&view_op=list_works&sortby=pubdate
- UEFISCDI ID: U-1700-035A-0625; https://www.brainmap.ro/liliana-bizo