



Maria Bosca

ID: CJ388516 | **Work permit:** Romanian | **Date of birth:** 11/02/1978 | **Place of birth:** Nasaud, Romania |

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Address: 16th Borhanciului Street, 400426, Cluj-Napoca, Romania (Home)

● WORK EXPERIENCE

 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DEPARTMENT OF PHYSICS AND CHEMISTRY – CLUJ-NAPOCA, ROMANIA

UNIVERSITY LECTURER IN PHYSICS – 01/10/2015

- planning teaching, including lectures, seminars, lab works and learning materials.
- writing research proposals, papers and other publications.
- carrying out administration, such as attending faculty meetings.

 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DEPARTMENT OF PHYSICS AND CHEMISTRY – ROMANIA

TEACHING ASSISTANT IN UNIVERSITIES – 01/10/2005 – 01/10/2015

- planning teaching, including seminars, lab works and learning materials.
- writing research proposals, papers and other publications.
- carrying out administration, such as attending faculty meetings.

 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DEPARTMENT OF PHYSICS AND CHEMISTRY – CLUJ-NAPOCA, ROMANIA

TEACHING ASSISTANT – 01/10/2003 – 01/10/2005

- teaching, including seminars, lab works and learning materials.

● EDUCATION AND TRAINING

01/10/2004 – 01/10/2013 Cluj-Napoca, Romania

PH.D IN PHYSICS Babeş-Bolyai University of Cluj-Napoca, Physics Department

Field of study Physics of Materials Oxide

01/10/2003 – 01/10/2004 Cluj-Napoca, Romania

MASTER'S IN PHYSICS Babeş-Bolyai University of Cluj-Napoca, Physics Department

Field of study Physics of Materials Oxide

01/10/1998 – 01/10/2003 Cluj-Napoca, Romania

BACHELOR'S DEGREE IN ENGINEERING Technical University of Cluj-Napoca, Machine Building Faculty

Field of study Applied Sciences – Applied Physics

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	B2	B2	B2	B2	B2

SKILLS

Microsoft Office | Good listener and communicator | General research

PUBLICATIONS

2025

The effect of Tb³⁺ on structural and luminescent properties of some zinc-antimony-boro-germanate glasses and glass ceramics

Write here the description...

Bogdan Golgotiu, Lidia Pop, Loredana Olar, Gheorghe Borodi, Liviu Bolundut, Maria Bosca, Razvan Stefan, Eugen Culea, Petru Pascuta

Journal Name: Ceramics International | **Volume, Issue and Pages:** Volume 51, Issue 27, Part C, Pages 54739-54745

2025

Synergistic bactericidal and anticancer potential of rubidium and silver-containing phosphate-based bioglasses

Authors: M. Bosca, L. C. Bolundut, L. Pop, R. Lucacel-Ciceo, G. Stiufluc, R. F. Badila, I. Lupan, O. R. Koblicska, A. Onaciu, D. Cenariu, A.-B. Tigu, G. Katona, D. Simedru & P. Pascuta | **Journal Name:** Scientific Reports | **Volume, Issue and Pages:** Scientific Reports volume 15, Article number: 37135

2012

Spectroscopic and magnetic behavior of Gd and Nd ions in lead-germanate glasses

L.Pop, M.Bosca, E.Culea

Journal Name: Journal of Alloys and Compounds | **Volume, Issue and Pages:** Journal of Alloys and Compounds, 525 (2012) 58

2011

Thermal, structural and magnetic properties of some zinc phosphate glasses doped with manganese ions

P. Pascuta, M.Bosca, G.Borodi, E.Culea

Journal Name: Journal of Alloys and Compounds | **Volume, Issue and Pages:** Journal of Alloys and Compounds 509 (2011) 4314

2009

XRD and FTIR structural investigations of erbium-doped bismuth-lead-silver glasses and glass ceramics

M.Bosca, L.Pop, G.Borodi, P.Pascuta, C.Culea

Journal Name: Journal of Alloys and Compounds | **Volume, Issue and Pages:** Journal of Alloys and Compounds 479 (2009) 579