

Curriculum Vitae



Personal information

First name(s) / Surname(s)

Surname(s) Maria Boşca Telephone(s) 0264 401262

Fax(es)

E-mail Maria.Bosca@phys.utcluj.ro

Nationality Romanian

Date of birth 11.02.1978

Work experience

Dates 01.10.2015 - Present

Name and address of employer Technical University of Cluj-Napoca, Department of Physics and Chemistry

Occupation or position held Lecturer

Main activities and responsibilities - 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.

Dates 01.10.2005 - 01.10.2015

Name and address of employer Technical University of Cluj-Napoca, Department of Physics and Chemistry

Occupation or position held University Assistant

Main activities and responsibilities - planning teaching, including seminars, lab works and learning materials.

- writing research proposals, papers and other publications.- carrying out administration, such as attending faculty meetings.

Dates 01.10.2003 – 01.10.2005

Name and address of employer Technical University of Cluj-Napoca, Department of Physics and Chemistry

Occupation or position held Teaching Assistant

Main activities and responsibilities - teaching, including seminars, lab works and learning materials.

Education and training

Dates 2013

Title of qualification awarded Ph.D in Physics

Principal subjects/occupational skills Physics of Materials Oxide

Name and type of organization Babes-Bolyai University of Cluj-Napoca, Physics Department

providing education and training

Dates 2004

Title of qualification awarded Master's in Physics

Principal subjects/occupational skills Physics of Materials Oxide

Name and type of organization Babeş-Bolyai University of Cluj-Napoca, Physics Department

providing education and training

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Maria Bosca

Dates 2003

Title of qualification awarded Bachelor's degree in Engineering

Principal subjects/occupational skills Applied Sciences - Applied Physics

providing education and training

Name and type of organization Technical University of Cluj-Napoca, Machine Building Faculty

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*) **English**

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	C1
B2	B2	B2	B2	B2

Didactic activity

Teaching Courses

Physics

Study year I: Energy Management, Medical Engineering, Economical Engineering in Electric,

Electronic and Energetics domain, Electrical Systems.

Training Mobility

Institutional Projects (max 5 the most representative)

Research

National Grants (max 5 the most representative)

International Grants (max 5 the most representative) TD 506 / 2007, Preparation and study of vitreous oxidic systems type (1-X) (Bi2O3*PbO*Aq2O)*R2O3 and (1-X)(Bi2O3*Ag2O)*R2O3, where (R=Er, Nd) with silver nanoparticle content.

Scientific publications

- 1. L.Pop, M.Bosca, E.Culea, Spectroscopic and magnetic behavior of Gd and Nd ions in leadgermanate glasses, Journal of Alloys and Compounds, 525 (2012) 58;
- 2. P. Pascuta, M.Bosca, G.Borodi, E.Culea, Thermal, structural and magnetic properties of some zinc phosphate glasses doped with manganase ions, Journal of Alloys and Compounds 509 (2011) 4314;
- 3. E.Culea, L.Pop, M.Bosca, Structural and physical characterics of CeO2-GeO2-PbO glasses and glass ceramics, Journal of Alloys and Compounds 505 (2010) 754;
- 4. S.Rada, M.Bosca, E.Culea, M.Rada, V.Dan, V.Maties, The local structure of gadolinium vanadatetellurate glasses and glass ceramics: Te2V2O9 crystalline phase, Structural Chemistry 20 (2009) 801;
- 5. M.Bosca, L.Pop, G.Borodi, P.Pascuta, C.Culea, XRD and FTIR structural investigations of erbiumdoped bismuth-lead-silver glasses and glass ceramics, Journal of Alloys and Compounds 479 (2009) 579.

Additional information

Awards Post-Doctoral fellow

Membership of POSDRU - PARTING from Technical University of Cluj-Napoca **Professional Societies**

Significant books published in the last 10 years (max 10)

R. Fechete, D. Moldovan, R.Chelcea, L. Pop, M. Bosca, Physics - Guide for virtual lab works, UTPRESS, Cluj-Napoca, 2021, ISBN 978-606-737-519-0

in the last 10 years (max 10)

- Significant papers published 1. L.Pop, M.Bosca, E.Culea, Spectroscopic and magnetic behavior of Gd and Nd ions in lead-germanate glasses, Journal of Alloys and Compounds, 525 (2012) 58; 2. P. Pascuta, M.Bosca, G.Borodi, E.Culea, Thermal, structural and magnetic properties of some zinc
 - phosphate glasses doped with manganase ions, Journal of Alloys and Compounds 509 (2011) 4314;
 - 3. E.Culea, L.Pop, M.Bosca, Structural and physical characterics of CeO2-GeO2-PbO glasses and glass
 - ceramics, Journal of Alloys and Compounds 505 (2010) 754;
 4. S.Rada, M.Bosca, E.Culea, M.Rada, V.Dan, V.Maties, The local structure of gadolinium vanadatetellurate glasses and glass ceramics: Te2V2O9 crystalline phase, Structural Chemistry 20 (2009) 801;
 - 5. M.Bosca, L.Pop, G.Borodi, P.Pascuta, C.Culea, XRD and FTIR structural investigations of erbiumdoped bismuth-lead-silver glasses and glass ceramics, Journal of Alloys and Compounds 479 (2009) 579.

Cluj-Napoca, September 2024 Ş.l.dr.ing. Boşca Maria