

Curriculum Vitae Europass



Personal information

First name(s) / Surname(s) **Baia (previous name Bolboaca) Monica-Maria**

Address(es) M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania

Telephone(s) 004 0264 405300

Fax(es) 004 0264 591906

E-mail monica.baia@phys.ubbcluj.ro

Nationality romanian

Date of birth 31.08.1974

Gender F

Occupational field

Work experience

Dates 03.2008-present

Occupation or position held Associate professor

Main activities and responsibilities Educational and research activities

Name and address of employer Babes-Bolyai University, Faculty of Physics, M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania

Type of business or sector Education, research

Dates 10. 2003-02.2008

Occupation or position held Lecturer

Main activities and responsibilities Educational and research activities

Name and address of employer Babes-Bolyai University, Faculty of Physics, M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania

Type of business or sector Education, research

Dates 10.1999-02.2003

Occupation or position held Research Assistant

Main activities and responsibilities Educational and research activities

Name and address of employer Julius Maximilians University, Institute of Physical Chemistry, Würzburg, Germany

Type of business or sector Education, research

Education and training

Dates 01.10.2005-30.06.2006

Title of qualification awarded Post-doctoral senior researcher

Principal subjects/occupational skills covered Surface enhanced Raman scattering (SERS) studies applying innovative plasmonic structures

Name and type of organisation providing education and training Friedrich-Schiller University, Institute of Physical Chemistry, Jena, Germany

Dates 01.10.1999-28.02.2003

Title of qualification awarded PhD in Nature Sciences

Principal subjects/occupational skills covered Vibrational characterisation of coordination and biologically active compounds by using IR absorption, Raman and surface-enhanced Raman spectroscopy in combination with density functional theory calculations

Name and type of organisation providing education and training Julius Maximilians University, Institute of Physical Chemistry, Würzburg, Germany

Dates 10.1998-06.1999

Title of qualification awarded Master Degree in Physics, Atomic Physics,

Principal subjects/occupational skills covered Experimental methods applied in atomic and molecular physics, Molecular structure and dynamic

Name and type of organisation providing education and training Babes-Bolyai University, Faculty of Physics, Cluj-Napoca, Romania

Dates 10.1997-06.1998

Title of qualification awarded Master Degree in Physics, Biophysics and Medical Physics

Principal subjects/occupational skills covered Cellular and molecular biophysics, Biomedical techniques, Biomaterials

Name and type of organisation providing education and training Babes-Bolyai University, Faculty of Physics, Cluj-Napoca, Romania

Dates 10.1993-06.1997

Title of qualification awarded Degree in Physics

Principal subjects/occupational skills covered Mechanics, electricity, magnetism, optics, molecular spectroscopy, solid state physics, nuclear physics, liquid phase physics, computer based analysis, teaching and research competences

Name and type of organisation providing education and training Babes-Bolyai University, Faculty of Physics, Cluj-Napoca, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B1	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Good capacity to adapt to social changes; involvement in writing and running joint projects

Organisational skills and competences Handling the management of projects both in term of people and budget, supervising dissertations and licence thesis.

Computer skills and competences Using computer, analyzing data with Origin and Excel software, processing text and images with specific software, theoretical simulations.

Additional information

- **IN HOC SIGNO VINCES** prize of the National University Research Council (2007).
- *Praiseworthy diploma of the Babes-Bolyai University (2006)*
- The **OVIDIUS-ARM-3** prize awarded by the ARM society for *Best poster presented at the Conference New Research Trends in Material Science*, (Constante, 2003).
- *Member of the Editorial Board of The Scientific World Journal (IF 1.524), Nanotechnology subject area*
- *Guest editor of a special issue entitled Progress and Perspectives in Visible-Light-Driven Photocatalysis, published in International Journal of Photoenergy (IF 1.769) <http://www.hindawi.com/journals/ijp/si/501047/>.*
- *Guest editor of a special issue on Nanostructures and nanosurfaces for biomedical and environmental applications, published in Asian Chemistry Letters vol. 16, no. 3 (July-Sept.) 2012.*
- *Hirsch-index: 11 (Baia) + 7 (Bolboaca)*
- *Number of publications: 69 publications, 3 books and a book chapter.*
- *The total citations of the papers:*
 - 388 (Baia) + 100 (Bolboaca)= 488 citations
 - 334 (Baia) + 98 (Bolboaca) = 432 citations without self citation (according to Web of Knowledge)
- *Member of the Romanian Physical Society*
- *Member of the Organizing Committee of the 1st, 2nd, 3rd and 4th international Conference on Advanced Spectroscopies on Biomedical and Nanostructured Systems, (Cluj-Napoca 2004, 2006, 2008, 2011) and 31st European Congress on Molecular Spectroscopy 26 - 31 August, 2012, Cluj-Napoca, Romania, organized by the Faculty of Physics, Babes-Bolyai University.*
- *Manager of the following projects:*
 1. UBB project TP-T nr. 30944 /2007-2010/ Study of the interaction of some pharmaceutical and ecological relevant molecules with nanostructured systems in order to identify new bio-physical-chemical properties and applications, 75000 lei.
 2. PN II RU_TE 81/2010 / New SERS based sensors for detection of water chemical pollutants, 571482 lei (2010-2013)
- *Participation in 4 international research projects (COST 540-Photocatalytic technologies and novel nanosurfaces materials-PHONASUM (2006-2010), Romania-Bulgaria bilateral project - Synthesis, physico-chemical and morphological characterization and toxicity testing of TiO₂ and SiO₂ polymeric nanoparticles, with respect to their application as drug carriers) (2005-2007), Romania-Hungary bilateral project (Preparation and Characterization of Visible Light Activated Photocatalysts for Water and Air Decontamination) (2007-2009), Romania-Greece bilateral project - Efficient wastewater treatment with nanocrystalline transition metal oxides modified with noble metals and nonmetals (2012-2013)) and 15 national grants.*

Cluj-Napoca, 7.06. 2013