



**Europass
Curriculum Vitae**



Personal information

First name(s) / Surname(s) **Lucian Baia**
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E-mail lucian.baia@phys.ubbcluj.ro
Nationality romanian
Date of birth 12.04.1971
Gender masculine

Occupational field

Work experience

Dates 03.2008-present
Occupation or position held **Associate professor**
Main activities and responsibilities Teaching activities - Courses and laboratory works for students in the materials science field
Bachelor and Dissertation thesis coordinator
Research activities

Name and address of employer Babes-Bolyai University, Physics Faculty
M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania
Type of business or sector public university

Dates 10.2003-02.2008
Title of qualification awarded **Lecturer**
Principal subjects/occupational skills covered Courses, seminars, laboratories, research, bachelor's degree coordinator
Name and type of organisation providing education and training Universitatea Babes-Bolyai, Facultatea de Fizica
M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania

Dates 10.1999-02.2003
Title of qualification awarded **Research assistant**

Principal subjects/occupational skills covered	laboratories, research
Name and type of organisation providing education and training	Julius Maximilians University, Institut for Physical-Chemistry, Würzburg, Germany
Education and training	
Dates	01.10.2005-30.06.2006
Title of qualification awarded	Post-doctoral senior researcher / Letter of recommendation
Principal subjects/occupational skills covered	Structural and morphological characterization of materials used in environmental and biomedical applications
Name and type of organisation providing education and training	Friedrich-Schiller University, Institute for Physical-Chemistry, Jena, Germany
Dates	01.10.1999-28.02.2003
Title of qualification awarded	Doctor degree / doctor in nature sciences
Principal subjects/occupational skills covered	<i>Theory and applications of confocal micro-Raman spectroscopy on hybrid polymer coatings and PDMS membranes and spectroscopic studies of doped B₂O₃-Bi₂O₃ glass systems</i>
Name and type of organisation providing education and training	Julius Maximilians University, Institute for Physical-Chemistry, Würzburg, Germany
Dates	10.1998-06.1999
Title of qualification awarded	Master degree / diploma
Principal subjects/occupational skills covered	Physics / Physics of the oxide materials
Name and type of organisation providing education and training	Universitatea Babes-Bolyai, Facultatea de Fizica M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania
Dates	10.1994-06.1998
Title of qualification awarded	Bachelor degree / diploma
Principal subjects/occupational skills covered	Physics / Physics - mathematics
Name and type of organisation providing education and training	Universitatea Babes-Bolyai, Facultatea de Fizica M. Kogalniceanu 1, 400084 Cluj-Napoca, Romania
Dates	10.1990-06.1995
Title of qualification awarded	Engineer bachelor degree / diploma
Principal subjects/occupational skills covered	Machine manufacturing / machine-tools

Name and type of organisation providing education and training | Technical University, Machine Manufacturing Faculty, Muncii nr. 103-105, 400641, Cluj-Napoca

Personal skills and competences

Mother tongue(s) | **Specify mother tongue** (if relevant add other mother tongue(s), see instructions)

Other language(s)

Self-assessment

European level (*)

Language english

Language 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, simulating data with Mathematica software.

Additional information | Comenius Prize of Babes Bolyai University (2011)

Member of the Editorial Boards of: ISRN Nanotechnology Journal (<http://www.hindawi.com/isrn/nanotechnology/editors/>), Journal of Biosensors & Bioelectronics (<http://www.omicsonline.org/EditorialboardJBSBE.php>), WebmedCentral Plus Biomedical Engineering Journal (http://www.webmedcentral.com/plus/speciality_editorial_members/Biomedical_engineering),

Reviewer for ISI journals like J. Phys. Chem., J. Am. Chem. Soc., J. Nanopart. Res., J. Raman Spectroscopy, Vib. Spectrosc., J.Phys. Chem. Solids, Mater. Chem. Phys., J. Non-Cryst. Solids, Mater. Res. Bull., J. Biophotonics, ChemPhysChem, etc.

*Expert evaluator of the Executive Unit for Financing higher Education, research development and innovation from Romania (UEFISCDI);
Expert evaluator of the Research Czech Agency (GAČR);*

National patent application (nr. A 00387/31.05.2012): Procedure of obtaining nanocomposites based on aerogel and noble metals with double functionality

Member in the Organizing Committee of the Biomaterials National Symposia, Cluj-Napoca, 2008.

Papers in ISI journals: 54

Number of citations: 866 (643 – excluding self-citations), h-index: 17

Participation in research projects: 6 in international projects and 15 in national projects

Experience in international research projects:

- Romanian-Bulgarian cooperation project in the Black Sea region / Synthesis, physicochemical and morphological characterization and toxicity testing of titanium dioxide (TiO₂) and silica dioxide (SiO₂) polymeric nanoparticles, with respect to their application as drug carriers, member, 2005-2007.
- COST 540 project / Photocatalytic technologies and novel nanosurfaces materials-critical issues –PHONASUM, member, 2006-2010.
- Romanian-Hungarian bilateral project, RO-HU nr 21/2008 / Preparation and Characterization of Visible Light Activated Photocatalysts for Water and Air Decontamination, member, 2008-2009.
- Romanian-Hungarian bilateral project, RO-HU nr. 7/2013, The synthesis of TiO₂, WO₃, noble metal (Au, Pt) and carbon nanotube containing composite materials with differently shaped nanocrystals. A "chess game in materials science", member, 2013-2015.
- ERANET Project - Smart functions of packages containing nanostructured materials in food preservation (SMARTPACK), member, 2012-2015.
- Romanian-Greece bilateral project, RO-GR - Efficient wastewater treatment with nanocrystalline transient metal oxides modified with noble metals and nonmetals, member, 2012-2014.

Experience in national research projects (as project manager):

- PN-II-Ideas project 306/2011, Designing TiO₂ containing composite nanoarchitectures for H₂ production and environmental depollution, project manager, 2011-2014.
- CEEX-ET project 5911 / 2006, Novel nano-composites based on TiO₂ aerogels and noble metals for applications in water purification and water quality monitorisation, project manager, 2006-2007.