

PERSONAL INFORMATION

Cristian MATEI



- 📍 University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Laboratory of Functional Inorganic Materials
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PERSONAL STATEMENT

Professor of Inorganic Chemistry

WORK EXPERIENCE

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|----------------|---|
| 2014 - present | Professor
University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry.
<ul style="list-style-type: none"> ▪ Teaching and research High education sector |
| 2004 – 2014 | Associated Professor |
| 1997 – 2004 | Lecturer |
| 1990 – 1997 | Professor' assistant
University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry.
<ul style="list-style-type: none"> ▪ Teaching and research High education sector |
| 1989 - 1990 | Engineer
ICIN Bucharest.
<ul style="list-style-type: none"> ▪ Production supervisor Industrial sector |

EDUCATION AND TRAINING

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|-------------------------|--|-------------|
| Nov. 2005 - April 2007 | Postdoctoral stage
Institut de Ciencia de Materials de Barcelona (ICMAB-CSIC), Spain
<ul style="list-style-type: none"> ▪ Hybrid materials synthesis | EQF level 8 |
| Nov. 2002 - Aug. 2003 | research grant of Agence Universitaire de la Francophonie AUF
Université Claude Bernard Lyon 1, Villeurbanne, France
<ul style="list-style-type: none"> ▪ Combustion synthesis of perovskite materials | EQF level 8 |
| Sept. 1999 – March 2000 | NATO fellowship
Université Claude Bernard Lyon 1, Villeurbanne, France
<ul style="list-style-type: none"> ▪ Molten salt synthesis of perovskite materials | EQF level 8 |
| Feb.1996 – April. 1996 | TEMPUS individual mobility grant
University of Liverpool, CTI Centre for Chemistry, Lyverpool, UK
<ul style="list-style-type: none"> ▪ Development of multimedia learning tools | EQF level 8 |
| March – May 1995 | TEMPUS mobility grant
Institut National Polytechnique de Grenoble, France
<ul style="list-style-type: none"> ▪ Electrochemical characterization of molten salts | EQF level 8 |

- 1993-1999 **PhD diploma** EQF level 6,7
 University "Politehnica" of Bucharest
 ▪ Molten salt synthesis of oxide-based materials
- 1984-1989 **Engineer degree** EQF level 6,7
 Polytechnic Institute Bucharest
 ▪ Industrial chemistry, Inorganic chemical technology

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through my experience as teacher

Organisational / managerial skills ▪ scientific secretary of Faculty of Applied Chemistry and Materials Science 2008-2012
 ▪ manager of the conference RICCCE - 2009 and 2011
 ▪ designer and developer of a new research laboratory
 ▪ coordinator of the TELEMAR audit -1996

Job-related skills ▪ teaching: Inorganic chemistry, Chemistry of the transition metals; ;Alternative energy sources.
 ▪ research: nanomaterials synthesis and characterisation; molten salt synthesis; mesoporous materials; drug delivery systems

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Autodesk certificate AutoCAD 12 level 1

- Office suite - Independent user
- Visual Basic - Independent user
- 3D CAD – Independent user
- Web designer – basic user

Other skills ▪ Electronics and automation - basic user

Driving licence B

ADDITIONAL INFORMATION
Selection of recent publications

- D. Berger, S. Nastase, R.A. Mitran, M. Petrescu, E. Vasile, C. Matei, T. Negreanu-Pirjol, Mesostructured silica and aluminosilicate carriers for oxytetracycline delivery systems, *Int. J. Pram.* 2016, 510 (2), pp. 524-531
 - R.-A. Mitran, D Berger, C Munteanu, C Matei, Evaluation of Different Mesoporous Silica Supports for Energy Storage in Shape-Stabilized Phase Change Materials with Dual Thermal Responses, *The Journal of Physical Chemistry C* 119 (27), (2015) 15177-15184
 - D. Berger, L. Bajenaru, S. Nastase, R.A. Mitran, C. Munteanu, C. Matei, Influence of structural, textural and surface properties of mesostructured silica and aluminosilicate carriers on aminoglycoside uptake and in vitro delivery, *Micropor. Mesopor. Materi.* 206 (2015) 150-160
 - Iorgu A.I., Maxim F., Matei C., Ferreira L.P., Ferreira P, Cruz M.M., Berger D., Fast synthesis of rare-earth (Pr^{3+} , Sm^{3+} , Eu^{3+} and Gd^{3+}) doped bismuth ferrite powders with enhanced magnetic properties, 2015, *J. Alloys Comp.*, 629(25), 62-68
 - R.-A. Mitran, S. Nastase, C. Matei, D. Berger, Tailoring the dissolution rate enhancement of aminoglutethimide by functionalization of MCM-41 silica: a hydrogen bonding propensity approach, *RSC Advances*, 5, 2015, 2592–2601
 - C. Matei, D. Berger, B.S. Vasile, Synthesis of Poly(Vinylpyrrolidone) protected Pd-Ag Bimetallic Nanoparticles by Polyol method, *Materiale Plastice*, 51(1), 2014, 6-11
 - R.-A. Mitran, D. Berger, L. Băjenaru, S. Năstase, C. Andronescu, C. Matei, Azobenzene functionalized mesoporous AlMCM41-type support for drug release applications, *Central European Journal of Chemistry* 12(7) 2014, 788-795
- Projects (director)**
- Monitoring system for the effects of some oxide nanopowders in the decomposition of Reactive Oxygen Species from processes of biological interest - BIOMONOXISIS, PNCDI II nr. 62053/1.10.2008 (2008-2012)
- Memberships**
- Societatea de Chimie din Romania, Societatea Română de Ceramica și Materiale Oxidice" (CEROM)
- Invited editor**
- U.P.B. Sci. Bull., Series B, vol. 74(1), 2012, vol. 73(4), 2011, vol. 72(1), 2010, vol. 71(4), 2009
- Reviewer**
- Journal of Alloys and Compounds, Materials Chemistry and Physics, Journal of Nanoparticle Research etc.
- Awards**
- Gold medal, Inventica 2017, Iași June 2017 for the patent, Process for deposition of oxide ceramic coats , inventators: C. Matei, D. Berger, S. Stoleriu RO 127660/30.09.2015, BOPI no. 9/2015
 - Gold medal, Inventica 2017, Iași June 2017 for the patent, Process for preparing mesostructured aluminosilicates in the presence of n-butylidethanolamine, inventors D. Berger, S. Nastase, C. Matei, Procedeu de preparare a aluminosilicațiilor mezostructurați în prezența n-butildietanolaminei, RO 130218/30.01.2017, BOPI nr. 1/2017
 - Petru Spacu Award of Romanian Academy 2015 for the group of papers: Physico-chemical processes under nanometric constraint in mesoporous materials
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