BERGER Daniela Cristina



Address: University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Street Polizu no. 1-7,

Bucharest, 011061, Romania

phone: +40-214023986; mobile: +40-721694275 e-mail address: danaberger01@yahoo.com

Date and birth place: 5.11.1966, Constanta, Romania

Nationality: Romanian

Graduate:

Institution	Period	Grades or diplomas obtained
Institute Polytechnic Bucharest, Fac. of Ind. Chemistry	1986-1991	engineer
University "Politehnica" of Bucharest	03/1995-12/2000	PhD in chemical engineering

Professional experience:

Institution	Period	Function	Description
Chiminform Data, Bucharest	oct. 1991 –	researcher	Translator from and to English or
	dec.1992		French to and from Romanian of
			technical and scientific
			documents
Romanian Academy, Institute of	dec.1992–	Research	Scientific research activity in
Chemistry-Physics, Bucharest	sept.1995	assistant	heterogeneous catalysis
University "Politehnica" Bucharest,	oct. 1995-	Assistant	Teaching and research activity in
Department of Inorganic Chemistry	oct.1999		the field of oxide materials and
			coordination chemistry
University "Politehnica" Bucharest,	oct.1999-	Lecturer	Teaching and research activity in
Department of Inorganic Chemistry	sept. 2005		the field of oxide materials and
			catalysis
University "Politehnica" Bucharest,	oct. 2005-	Assoc.	Teaching and research activity in
Department of Inorganic Chemistry	present	professor	the field of inorganic and hybrid
			materials
University "Politehnica" Bucharest	from oct. 2013	Full Prof.	Teaching and research activity in
Department of Inorganic Chemistry,			the field of inorganic and hybrid
Physical Chemistry and			materials
Electrochemistry			

Scientific title: Doctor

Habilitation thesis, Contributions to liquid phase synthesis of inorganic nanomaterials, (sept. 2013)

From dec. 2013 - PhD supervisor in the field of Chemical Engineering

Foreign languages: English, French

Expertise in:

- synthesis of mesoporous inorganic and organic-inorganic materials
- designing and obtaining of drug delivery systems based on inorganic mesoporous matrix

- synthesis by different soft chemistry routes (solution combustion, modified Pechini, coprecipitation, reverse microemulsions method, sol-gel, hydrothermal method) of different oxide materials
- synthesis and deposition of metallic and bimetallic nanoparticles on different supports
- good knowledge of inorganic chemistry
- phsyco-chemical characterization of oxide, metal and composite nanoparticles
- obtaining and characterisation of ceramic materials

Author of **92 papers published in ISI jou**rnals (**37 papers as main author**), total impact factor=109, **total citations=890 (Scopus)**, 4 Romanian patents; **Hirsch index=19 (Scopus)**

Research fellowships

- dec. 1996 aug. 1997, TEMPUS Program JEP-7147 / 96, Politecnico di Torino, Dipartimento di Scienza dei Materiali ed Ingegneria Chimica, scientific coordinator feb. 2000-may 2000, Laboratory for Inorganic Chemistry, Delft University of Technology, The Netherlands, doctoral fellowship
- march 2003 sept. 2003, postdoctoral fellowship, grant CNRS, Institute de Recherche sur catalyse, Villeurbane, France, associated researcher (poste rouge).
- nov. 2005-april 2007, postdoctoral fellowship, Institut de Ciencia de Materials de Barcelona (ICMAB-CSIC), Spain, in the field of composite nanomaterials.

Teaching activity

Courses

Inorganic Chemistry I, Faculty of Engineering in Foreign Languages (in English)

Inorganic Chemistry II, first year, semester II, Faculty of Applied Chemistry and Materials Science Nanostructured materials and biomimetism, second year of Master, Faculty of Applied Chemistry and Materials Science, specialization Life sciences and ecology

Catalysts and catalytic processes involved in de-pollution and pollution prevention.

POSDRU projects

Elaboration of course and digital lessons as coordinator of inorganic chemistry in the frame of the POSDRU/87/1.3/S/61839 project, *Looking to the future e-chemistry*.

6 taught courses (July – December 2012) in the field of nanomaterials synthesis, in the frame of the project, POSDRU/89/1.5/S/54785 / Postdoctoral programme for advanced research in the field of nanomaterials, acronym NANOMAT.

Organizational skills and competences

- ✓ Membership in Organisatoring Committee of RICCCE edition 14, Bucharest 2005, edition 16, Sinaia 2009, 17, Sinaia 2011.
- ✓ Competences in coordination and organisation of a research lab of Department of Inorganic Chemistry, Physical-Chemistry and Electrochemistry, Group of Inorganic Chemistry
- ✓ Experimental test organisation at Inorganic chemistry of contest C.D. Neniţescu.

Additional information

- ✓ *Membership in scientific organizations:* Romanian Society of Chemistry and Romanian Society of ceramics and oxide materials (CEROM).
- ✓ Reviewer at different prestigious ISI journals: Solid State Sciences, Journal of Physics and Chemistry of Solids, Catalysis Letters, Journal of Alloys and Compounds, Materials Science and Engineering B and C, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Journal of Nanoparticle Research, Micropor. Mesopor. Mater., Romanian Journal of Materials etc.
- ✓ Responsible of the committee of the national contest of chemistry C.D. Neniţescu for students from high school section: Inorganic chemistry
- ✓ Editorial board at U.P.B. Sci. Bull., Series B
- ✓ Invited editor at U.P.B. Sci. Bull., Series B, Vol. 72, Iss. 1, 2010 and vol. 71, Iss. 4, 2009.

- ✓ Member in Scientific Committee of international conferences şi străinătate: European Conference on Materials and Technologies for Sustainable Growth, Bled, Slovenia, 2013, RICCCE 18 –Sinaia, sept. 2013
- ✓ Invited conferences or keynote contribution at several international conferences

Scientific and managerial expertise gained in national/international projects

Programme/Project	Function	Period/
HERICON Consider Posteria DOCDI es OF /2040, Consider	LIDD	Funds (in lei)
UEFISCDI, Complex Project, PCCDI no. 85/2018, Complex	UPB project	2018-2020
valorisation of Black Sea bioresources by development and	responsible	790.000 lei
application of novel and emergent biotechnologies (INOBIOMAR)		
Component project no. 1, New biotechnologies for valorisation of	LIDD	
marine resources for obtaining natural, bioactive compounds	UPB project	
used for cosmetics	responsible	
Component Project no. 2, Technologies of bioactive substances	Project scientific	
encapsulation for valorisation of bioresources from Black Sea	responsible	
coast region for biomedicine		
UEFISCDI, PCCA no. 131/2012, Drug delivery systems based on	director	2012- present
inorganic mesoporous matrix, acronym MESODRUG		(~820.000 lei)
PNII-Capacities, bilateral project Romania-Slovenia no. 533/2012,	director	2012-present
Metal-oxide nanostructures for waste water removal, acronym		
MONWAT		
PNII-Capacities, bilateral project Romania-France no.	director	2010-2012
483/17.03.2011, "Nanocomposite materials for nitrate removal		
from waste waters (MADECEAU)		
PNCDI II Partnership for priority fields – Contract no. 71-030,	UPB Scientific	2007-2010
Advanced ceramic materials for components of IT-SOFC	responsible	(374.084 lei)
PNCDI II Partnership for priority fields – Contract no. 32-116,	UPB Scientific	2008-2011
Architectures of advanced materials with applications in the	responsible	(202.664 lei)
treatment of polluted waters - AMAP		
POS CCE ID 691, New materials from mesoporous aluminosilicates	long term expert-	2010 – 2014
class for controlling release of biologic active substance, research	activity scientific	
project, acronym ZEOMED	responsible	
Contract no. 33552/1.07.2003, no. theme 14, cod CNCSIS 124	Director	2002-2003
Synthesis and characterisation of some perovskite ceramic		(7500 lei)
materials for renewable energy sources		
Contract no. 5076, B109, A91, ANSTI	Director	1999-2000
Lanthanum based oxides as catalysts for post-combustion		(2800 lei)

Gold medal, Inventica 2017, Iasi, June 2017 for the Romanian patent, Procedure for deposition of ceramic oxide layers, inventors: C. Matei, D. Berger, S. Stoleriu RO 127660/30.09.2015, BOPI nr. 9/2015

Gold medal, Inventica 2017, Iași, June 2017 for the Romanian patent, D. Berger, S. Nastase, C. Matei, Procedure for obtaining of mesostructured aluminosilicates in the presence of n-butyldiethanolammine, RO 130218/30.01.2017, BOPI nr. 1/2017

"Petru Spacu" prize of Romanian Academy in 2017 for the papers in the field of Physico-chemical processes due to nanoconfinement in mesoporous materials

I declare that the data presented here reflect the reality.

Date: 15.01.2019