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Contact information

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scholar.google.com/citations?user=Miqb1RAAAAAJ

Education and training

Title of qualification awarded	Faculty of Chemistry University of Bucharest chemist 1968-1972 PhDstudent stage and PhD in Chemistry title in 1972
Principal subjects/occupational skills covered	
Name and type of organization providing education and	-Chemistry Faculty Bucharest University license and PhD
training	-1995; 2 months Porto University Portugal specialization
	in composite materials
	- 1973-1974- Brandeis University USA specialization
	photochemistry and methods of de analysis

8 (Dr in Science and PhD supervisor)

Level in national or international classification

Professional experience

Dates 1994- present Prof. ;1990-1994, Ass. Prof. occupation or position held 1966-1990 teaching assistant, lecturer, Teaching and research main activities and responsibilities Teaching activities, continuous training, expertise in o coordination program, PhD supervisor activities and research (including 3 cotutela th with INCPT Toulouse;32 PhD students are now doctors in Science and 12 in stages of obtaining their degree;6 from 2015 and 2016 admission Head of the General Chemistry Department 2000-2012 1992-2004: Member of the Academic Council I.M.S.T. "Politehnica" University Bucharest ; 2000-2012: Member of of the Acade Council Appl. Chemistry&Materials Science Faculty; 2002-2012: Member of the Academic Council of he Bioeng. Biotechnology Department 2004 -2012 Member of f y "Politechnica" Ser 2016 -present Academic Counsil of Medical Engineerig Faculty 1966-1974 Bucharest University, Chemistry Faculty Name and address of employer 1974- present "Politehnica" University Bucharest Education and research ; Coordinator of Masterat program Type of business or sector Materials, Substances and Biocompatibile Systems 2002-2-2018

Academic and research interests; Physical Chemistry, Biomaterials, Corrosion, Environment Teaching activity

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	Specialization name	Code	Title	Activity type
Licence	Faculty Applied	Science	Chemistry	course
Master	Materials, Substand	ce UPB.FIM	Bioelectrochemistry	Course
	Biocompatible Systems	5	Biomaterials & Effect	Course
			of nano dimensions	
			Biocompatibility	Course

Publications

Books Participation in elaboration of 18 books including chapters at international level *Patents 9 patents in materials Science*

<u>Articles 212</u> ISI publications starting 1977 and 2065 citations (including ISI Proceedings) <u>H index 27</u> In ISI web of knowledge and 27 in Scopus as well

- <u>Research projects</u>: Participation in more than 100 projects at national and international level including, UNIDO, Leonardo da Vinci, FP6, CNCSIS, VIASAN, CEEX, PCE, PCCE, etc ; in the period 2006-2019coordinator of 15 projects, (2 international cooperation with France and Argentina in the field of biomaterials and 13 national).

International cooperation France, Spain, Greece, Germany, Japan, Portugal, Argentina, Findland, **Other information**

-Director of the postdoc school in a CEEX project entitled "Micro and nanostructured elaborated via chemical and electrochemical bioactivation with application in regenerative medicine:

-Expert evaluator and monitor of national (RELANSIN, MENER, BIOTECH, MATNANTEC) and international projects (LEONARDO Da VINCI, CORINT, Czech Science Foundation,

-Plenary and keynote invited lectures in Conferences and Universities (SUA, Poland, Mexic, Greece Hong Kong (2010), Egipt, France, Kuala Lumpur, Great Britain, Denmark (2014), Italy, China (2015), China 2016, The Netherlands (2016), Prague 2017, Jeju Koreea 2018

-Expert in POSDRU Project, Expert in UNIDO, FP6 and Leonardo da Vinci projects.

- Member of Romanian Chemistry Society, member of Romanian Biomaterials Society, member ISI

(International Electrochemistry Society), Member of Committee of APCBEES(Asia Pacific

Chemistry Biological & Environmental Society), member of International Bionic Society **-member of editorial board** for Molecules Journal, Nanobiomedicine (Japan), Coatings, J.of Roumanian Biophysics, editor of special issue Micro and Nanocoating for technological and Biomedical applications

-reviewer for J.Nanoparticles research, Biomaterials, Corr. Sci., Electrochimica Acta, J. Non Crystalline solids, Materials, Metals, Appl. Surf. Sci., Surf. and Coating Tech, Rev. Chim., J.Synthetic metals, Arab.J.of Chemistry, Mater Chem. and Phys, J. Biosci. Bioeng., J. Mater. Sci. Mater. Medicine, J. Colloid Interface B, Sci Reports J. Nanomaterials, Coatings, J of Ceramics International, Materials Letters, J. of Materials Sci. Mater.in Medicine etc

-Chairperson and/or member in scientific committee International Conferences Romania, (RICCCE 2005,2007,2009,2011), Greece (Duracosys 2010), Egipt(2011), Hong Kong(2010), Thailanda (International Conference on Biotechnology and Environment Management - ICBEM 2012), Denmark (International Conference on Biomedical Engineering and Technology ICBET May 2013 Copenhagen) France (Medical and Bioscience Conference Paris October 2013),Great Britain (2014 4th International Conference on Environmental, Biomedical and Biotechnology, ICEBB 2014 July Nottingham) Italy (May 2015 Florence),The Netherlands (Amsterdam March 2016), Prague 2017 China (5th International Conference on Bionic Eng. 2016), etc.

Awards -Silver medal at Geneva International Saloon of Inventions (2002)

-WOMPI premium at Geneva International Saloon of Inventions (2011)

-Premium of Romanian Society of Biomaterials Daniel Bunea 2011

-over 80 papers have CNCS prize, the majority of them being from the red zone and having influence score higher than 1 (Ioana Demetrescu as principal author).

-Honorary Professor "Dunarea de Jos" University - Member of Academy of Romanian Scientists

Projects title as director and UPB team coordinator

1. European bilaterale Brancusi (France 2005-2006) " Thin films of aluminium oxide and titanium dioxide applied in technologies and biomedicine". **D**irector

2.Project CEEX.Module IV 2006-2008 Development infrastructure of accreditated UPB-CNC laboratory for evaluation of corrosion resistance of materials involved in environment & health . ". Director

3.Project CEEX module II (postdoc2006-2008) "Micro and nanostructures obtained using chemical and electrochemical bioactivation with application in regenerative medicine Director

4. PN2 "2008 Environmental impact factors on dynamics formation and behaviour of structures of temporary teeth director" Director

5.IDEI 2009 Exploratory study on the mechanism of formation and inducing new properties for modified electrodes with structure TiO2 nanotubes /nanoparticles and polimeric composites Director

6.Cooperration Romania-Argentina2013-2015 New generation of temporary and permanent implants based on alloy with non toxic elements and innovative controlled micro and nano surface layers with biomimetic and antibacteriostatic properties. Director

7.Enforcing integrative exploratory research in life science & engineering with complex coatings on bioalloys PCE PNIII 2016-2019. Mechanism of coatings elaboration and Characterization on Zr and Zr alloys. Director.

1 Viasan Program " Elaboration and in vitro and vivo testing elements for ortopedics (from new Romanian biomaterials) 2001-2003 UPB coordinator

2. Program Biotech "Development of biotechnologies for human cell culture applied in medicine " 2004-2006 UPB coordinator

3.Program Relansin " Technological restructuration at regional level in Maramureş, improving food industry in order to develop local turism " 2004-2006. UPB coordinator

4.Program Viasan "New cell model investigation for pulmonar induced fibrosys by profesional noxes 2004-2006 UPB coordinator

5.Project CEEX Research and development of eco-materials without Cr, Pb and Cd, destinated to car industry – Ecomatica. 2006-2008 UPB coordinator

6 IDEI PCCE 248/2010" New concepts and strategies in knowledge development of new biocompatible structure in bioengineering..responsabil 2010-2013 UPB coordinator

7. Enhancing oral health using dental restorative works from modified alloys Oralsis 2014-2017.

8. Improving implant biomedical materials introducing nanoarhitectures and antibacterial protection 2014-2017 UPB coordinator