

Curriculum Vitae

PERSONAL INFORMATION

Dumitriu Cristina



WORK EXPERIENCE

Gheorghe Polizu, Nr. 7, Sector 1, Bucharest, 011061, Bucharest, building L, room L 026

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Date of birth 26/08/1979 | Nationality Romanian

03.2019 - present	Assistant professor
	Faculty of Chemical Engineering and Biotechnologies, University Politehnica of Bucharest
	 Main activities and responsibilities: Teaching "General Chemistry" Course at the faculty FAIMA (Entrepreneurship, Business Engineering and Management), coordination and guidance of students during practical activities in the General Chemistry laboratory Develop own teaching materials, namely printed and the electronic support Licence and Dissertation project coordination Scientific research activities Develop project proposals funded by national programs
01.10.2014 – Martie 2019	Business or sector Teaching and research activity Teaching assistant
	University Politehnica of Bucharest
	Main activities and responsibilities: coordination and guidance of students during practical activities in the General Chemistry laboratory
15.08.2008 - 01.01.2011	Business or sector Teaching and research activity Head of packaging team
	SC Arena Group S.A Bucharest, Romania
	Main activities and responsibilities: checks on the production flow, completing the daily delivery-receipt notes in the accounting program
03.01.2007 – 08.08.2008	Business or sector Pharmaceutical industry Chemist engineer
	SC Combial S.A Urziceni, Ialomița, Romania
	Main activities and responsibilities:coordinating the production flow from the control desk, responsible for hygiene. member of the HACCP (Hazard Analysis and Critical Control Points) team
01.09.2006 - 03.01.2007	Business or sector Agri-food industry Chemist engineer
	SC Laropharm - Bragadiru, Ilfov, Romania
	Main activities and responsibilities: laboratory analysis for the finished product (strength, dosing, dissolution)
01.04.2005 – 01.09.2006	Business or sector Pharmaceutical industry Chemist engineer
	Vlad Alex Termo Srl Bucharest, Romania
	Main activities and responsibilities: laboratory analysis
	Business or sector Chemical industry
EDUCATION AND TRAINING	



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2013	Participation in seminars and workshops within POSDRU107 / 1.5 / S / 76909							
	 Friedrich Alexander University - Erlangen-Nürnberg, Germany 							
4 40 0044 04 04 0040	 Scientific research 		4 5 / 0 / 70000					
1.10.2011 - 01.04.2012	Internship within POSDRU107 / 1.5 / S / 76909							
	 Åbo Akademi – Turku (Åbo), Finland Scientific research obtaining and characterizing conductive polymer films, Electrospinning, Raman 							
	Spectroscopy, UV - VIS in situ, ATR in situ							
2010-2013	PhD in Chemistry							
	 University Politehnica of Bucharest 							
			trodes with self-organ	ized nanotube structu	res, nanofibers			
20.03.2006 - 30.06.2006	and conductive poly							
20.03.2000 - 30.00.2000	Erasmus mobility grant							
	 National Polytechnic Institute of Lorraine, National School of Agronomy and Food Industries - Biotechnology and Food Process Engineering Group, Nancy, France 							
	 laboratory research - separation of hydrophilic peptides using HPLC 							
2004 - 2006	Master degree							
	 Materials, Substances and Biocompatible Systems, Department of Bioengineering and 							
	Biotechnology, University POLITEHNICA of Bucharest.							
0004 0000	• The title of the dissertation thesis: "Analytical techniques for the characterization of peptides".							
2004 – 2006	· ·	Engineer Diploma						
		 Politehnica University of Bucharest Specialization: Engineering and chemistry of organic substances 						
		 Title of the bachelor's thesis: research part - "Synthesis of 4,7-diphenyl-oxadiazole [4,5-c] pyridine-6- 						
	carboxylic acid"; de	sign part - "To desiç	on a plant for obtainin	g ethyl alcohol by ferm	entation"			
PERSONAL SKILLS								
Mother tongue(s)	Romanian							
Other language(s)	UNDERSTANDING		SPEAKING		WRITING			
	Listening	Reading	Spoken interaction	Spoken production				
French	B1/2	B1/2	B1/2	B1/2	B1/2			
English	B1/2	B1/2	B1/2	B1/2	B1/2			
0 -	Levels: A1/2: Basic user -	,_						
	Common European Fran							
Communication skills	 Interactive person with good communication skills, serious, responsible, interested in professional collaboration 							
	• teamwork experience gained through participating in national and international projects as a member							
	and project director but also through participation in numerous national and international conferences							
	 good communication skills acquired by participating in student communication sessions (Organic Chemistry: May 2001, May 2002, May 2003, May 2004 - 3rd prize with the paper: "Synthesis and 							
	characterization of a new acid chloride")							
Job-related skills				e Quality Control De	epartment at S.C.			
	Laropharm - Bragadiru, Ilfov, Romania)							
		 knowledge of HACCP norms - risk analysis and critical control points (working within S.C. Combial S.A Urziceni, Ialomita, Romania) 						
	J.A UIZICEIII, IAIO	nina, nunania)						



Computer skills	SELF-ASSESSMENT							
	Information processing	Communication	Content creation	Security	Rezolvare a de probleme			
	Experienced user	Experienced user	Experienced user	Elementary user	Elementary user			
	N levels: Elementary user - Independent user - Experienced user Digital competences - Self-assessment grid							
	 good command of Microsoft Office tools working with MathCad, OriginLab, ChemWindow, ChemBioOffice, IrfanView, Gimp programs acquired undergraduate, master's and doctoral studies 							
Organisational / managerial skills	 Supervisor in the frame of student scientific sessions communications organized by General Chemistry Department, Project manager for 1 research project: PNIII-PED (2018-2020) 							
Driving licence	• B							
ADDITIONAL INFORMATION								
General research areas	 Chemical and electrochemical surface modification and characterisation of metals and metals alloys for bio and non-bio-applications. Chemical and electrochemical synthesis of thin films (TiO₂ nanostructures - nanotubes, nanofibers, nanochannels, conducting polymers, hybrid materials) dedicated to biomedical applications Surface characterization by electrochemical methods (cyclic voltammetry, electrochemical impedance spectroscopy, Tafel plots techniques for stability evaluation) and physico – chemical methods for thin films: surface charge measurements, wettability test (contact angle), IR spectra; UV-VIS spectra Electrochemical detection Organic synthesises 							
Publications	 Author of 26 scientific articles (most of them ISI indexed, many as main author) and a national patent in collaboration with the members of the department; number of citations in the Web of Science Core Collection, without self-citations, 187 Participant at 13 international conferences (9 oral presentation) 1 national patent 							
Research projects	 project team member: Code 41, Nr. CH 380412 - Synthesis of new fluorescent heterocycles with applications in biochemistry and electronics project team member: PN-II-PT-PCCA 253/2014 New multifunctional nanostructured coatings for orthopedic implants, NanoCoat; project team member: PN-III-P2-2.1-PED-2016-0910 Innovative surface design to extend the period of use and safety of dental and orthopedic implants - NovSurf; project team member: PN-III-P2-2.1-PED-2016-1372 Improving the repair of bone defects by shell-based TiO2-based nanostructures inspired by bioactive phytomolecules - DAPHYTBONE. project team member: PN-III-RU-TE2014-4-0594 Chemically modified electrodes with complexing polymeric films for electroanalysis of heavy metal ions – CHEMPOLANAL project director: PN-III-P1-1.1-PD-2016-2185 "New modified electrodes for gluten detection in food - TiO₂ Gluten" project director: PN-III-P2-2.1-PED-2021-4405, An innovative sensing system for Non-Invasive Celiac Disease diagnosis 							
Other informations	 Member of the Romanian Chemical Society awards for research articles from the National Council for Scientific Research in Romania (CNCSIS) H-index 10 (according to Scopus); 							