Curriculum Vitae

Personal information	
Surname/ First name	**BUTNARU IRINA**
Anterior surname	**BACOSCA**
E-mail	butnaru.irina@icmpp.ro
Date of birth/city/country	17.05.1982/ Iasi/ Romania

Education and training	
October 2010	PhD degree in Polymer Chemistry with the thesis entitled "Synthesis and characterization of modified polyimides for high performance applications"
November 2006 – October 2007	Master degree in the field of "Natural Products" at Technical University "Gh. Asachi", Faculty of Chemical Engineering, Iasi
October 2001 – June 2006	Bachelor of Engineering Chemistry in the field of "Organic Compounds Technology" at Technical University "Gh. Asachi", Faculty of Chemical Engineering, Iasi
Foreign languages	English: spoken and written C2 level French: spoken and written B1 level Spanish: spoken and written B2 level

Professional experience	
April 2014 – present	Researcher at "Petru Poni" Institute of Macromolecular Chemistry, Iasi
May 2013 – April 2014	PostDoc at Swiss Federal Laboratories for Materials Science & Technology (EMPA), St Gallen, Switzerland
April – June 2012 April–June 2011	PostDoc at Centre of Inovative Materials for Advanced Technologies (CIMAT), University of Potsdan, Germany
October 2010 – August 2011	Young Researcher at "Petru Poni" Institute of Macromolecular Chemistry, Iasi
November 2006 – October 2010	Research Assistant at "Petru Poni" Institute of Macromolecular Chemistry, Iasi

Scientific contribution	
Publications	- 22 published articles - 6 Scientific refereed articles in Symposium Proceedings (of which 5 are ISI indexed) - Hirsh index: 8 (according to ISI Web of Science) - 31 presentations (13 oral presentations and 18 posters) in symposia (9 national and 19 international) - Sum of the times cited: 200 (without self-citations: 157), average citation per item: 7.69 (oct.2019)
Stages	- 2 weeks at Center for Polymer Chemistry, Zabrze, Poland (Nov. 2007, Nov. 2018)
Academic grants	➢ Project coordinator: Researchers' Mobility Project PN II-RU-MC, no. 133/2008, project title: „Physical properties of aromatic polyimides containing cyano groups and their dependence on conformational rigidity parameters",

	➢ Project member: - international project SCIEX NMS-CH, no. 152.379 (2013-2014) in EMPA, St Gallen, Switzerland, project title: „Sustainable flame retardant polymers” - international project FP7-REGPOT-2010-1 (2010-2014) STREAM on themes „Synthesis and characterization of heterocyclic polymers containing imide rings and various functional groups” and ”Polyimides processable by solution casting. Optoelectronic properties of thin films. Laser irradiation. Sensors” - national research project PNCD 2, no. 11-008/18.09.2007 (2007-2010), project title: „Advanced circuits for microwaves, millimeter and photonic waves using MEMS and MIMFOMEMS technologies. Polyimides for protective films in microprocessor circuits" - national research project PN II-IDEI no. 654/19.01.2009 (2007-2010), project title: “Functional polyimides for nanostructured high performance materials” - national research project PN-III-P4-ID-PCE-2016-0708, no. 66/2017 (2017-2019), project title: “Smart materials for macromolecular engineering with various chromic response to external stimuli”

Research interest	- Aromatic and heteroaromatic polymer-based materials for electronics and optoelectronics - Innovative heterocyclic polymer materials for bio applications - Smart materials with photochromic response to light radiation - Polymers for gas separation membranes applicable in environmental protection and energy
Experimental skills	- experience in synthetic organic and macromolecular chemistry - expertise in the methodologies required to carry out the synthesis and structural identification of the molecular structures - expertise in preparation of thin films and coatings from polymer or composite solutions - expertise in physical-chemical characterization of polymer materials - expertise in assessing the applicative potential of polymer materials
Organizational skills and competences	- experience in project and team management - team spirit, sense of organization - good ability to adapt to different environments, gained though my work experience abroad - knowledge in organize and supply with raw materials for experimental work - skill in manipulation several apparatus for polymer characterization (FTIR, DSC, RMN, UV-vis, rheology, TGA, PCFC)
Computer skills	- ability to use specific programs for chemistry (ChemDraw, ACD Lab, TopSpin, Origin, HyperChem, Microsoft Office etc)