euro <b>pass</b>			
Europass			
Curriculum Vitae			
Personal information			
First name(s) / Surname(s)	NICOLETA – VIORICA DUMITRASCU		
Address(es) Telephone(s)	11 Carol I Blv., 700506 lasi, Romania           +40 232 201187         Mobile:         0751 842 247		
Fax(es)	+40 232 21150		
E-mail	nicoleta.dumitrascu@uaic.ro		
Nationality Gender	Romanian		
Gender	Female		
Present employment /	Professor Emeritus		
position			
Work experience			
Dates	1974 - 1977, professor, Industrial school no. 7, lasi		
	1977 - 1990, assistant, Department of Physics, <i>Gheorghe Asachi</i> Technical University,		
	lasi		
	1990 - 2001, lecturer, Alexandru Ioan Cuza University of lasi		
	2001 - 2007, assoc. professor, Alexandru Ioan Cuza University of Iasi		
	2007 – professor, <i>Alexandru Ioan Cuza</i> University of Iasi 2009 – PhD supervisor.		
Occupation or position held	Professor		
Name and address of employer	Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania		
Type of business or sector			
Education and training			
Dates	D.Sc. in Plasma Physics (1990)		
	• M. Sc. in Optics, Spectroscopy and Plasma Physics (1974), with average grade 10		
	(on a scale of 10 maximum)		
Title of qualification awarded	B.Sc. in Physics (1973), with average grade 9.83 (10 maximum)  Physicist		
Principal subjects/occupational	Biomaterials characterization. Biocompatibility testing of materials for medical		
skills covered	applications		
	• Plasma techniques for immobilization of biological molecules (heparin, albumin, IgG,		
	antibiotics etc.) onto the polymeric surfaces		
	<ul> <li>Reactions of polymerization under the plasma conditions</li> <li>Optical and electrical diagnosis of plasma. Dielectric barrier discharges</li> </ul>		
	<ul> <li>Waves and instabilities in low temperature plasmas.</li> </ul>		

Name and type of organisation providing education and training	Faculty of Physics, Alexandru Ioan Cu	uza University of Iasi, Romania.	
Personal skills and competences	<ul> <li>Biomaterials and biocompatibility testing of materials used in medical applications</li> <li>Optical and electrical diagnosis of plasmas at atmospheric pressure</li> <li>Mechanisms of polymerization</li> <li>Techniques of biomolecules characterization</li> </ul>		
Mother tongue(s)	Romanian		
English			
Self-assessment	Understanding	Speaking	Writing
European level (*)	Listening Reading	Spoken Spoken interaction production	
	C Proficient C Proficient 1 user 1 user	A Basic user A Basic user 2 2 2	B Independen 1 tuser
Organisational skills and competences	<ul> <li>Participation at International programmes of scientific cooperation: Brancusi (2000-2002), COST (2003-2007), CEEPUS (2003-2007; 2007-2012, 2012-2015) Socrates / Erasmus (2000-2015).</li> <li>Convenor at ESF Exploratory Workshop about <i>Manipulation of Biomaterials surface by Plasma Processing</i> (May 2010)</li> <li>Peer review activities at <i>Applied Surface Science, Elsevier, IEEE Transactions on Plasma Physics, J. of Coll. Inter Sci., ACS Appl. Mat &amp; Interface, Acta Biomaterialia.</i></li> </ul>		
Teaching activities	<ul> <li>Courses (2009-2016):</li> <li>Biomaterials and Biocompatibility. Master II, Plasma Physics, Biophysics and Medical Physics – in Romanian and English</li> <li>Ecosystem and Interactions with human. Master II, Plasma Physics</li> <li>Elements of Plasma Physics. Medical applications. Bachelor III, Biophysics and Medical Physics.</li> </ul>		
Scientific research activity	<ul> <li>a) <u>Scientific papers</u></li> <li>53 articles ISI: 45 articles in the topic of <i>Plasma treatments of biomaterials surface</i> and <i>Biocompatibility testing of materials</i>. 5 Books:</li> <li><i>Biomaterials and Plasma Processing</i>, Eds. N. Dumitrascu, I.Topala, ISBN: 978-973-703- 543-1, 2011.</li> <li><i>Polimeri degradabili si biocompatibili</i> (Cap. VI: Tratamente cu plasma ale polimerilor naturali si sintetici. Importanta si aplicatii in domeniul medical (G. Borcia, N.Dumitrascu), eds: C.Vasile et al., Tehnopress, Iasi, (in Romanian), 2009.</li> <li><i>Biomaterials and Biocompatibility</i>, pgs. 312, Ed. Univ. Al.I.Cuza Iasi, 2007.</li> <li><i>Dielectric barrier discharge and treatments of polymer surfaces</i> - in Plasmas non thermiques et applications, vol. II, N. Dumitrascu, Ed. Univ. Al. I. Cuza Iasi, 2003.</li> <li><i>Introducere în Fizica Plasmei</i>, partea I-a, N. Dumitrascu, Ed. Junimea, Iasi, 1999.</li> <li>b) <u>Scientific grants</u></li> <li>6 grants : 3 grants CNCSIS as director, and 3 grants CEEX as coordinator</li> <li>1 international grant as convenor, Workshop ESF: <i>Manipulation of Biomaterials by Plasma Processing</i>, Iaşi, 26- 30 May, 2010</li> <li>2 international grants: Brancusi and COST (<i>Plasma Polymers and Related Materials</i>) as member</li> <li>11 grants CNCSIS as member.</li> <li>C) ISI citations:</li> <li>Over 688 citations in ISI journals, 2 books and 1 USA patent. 17 Hirsch factor.</li> </ul>		

Other activities	a) <u>Visiting professor</u>
	<ul> <li>Plasma processing of materials and biointerfaces, Leopold Franzens University, Innsbruck, Austria, June 2012.</li> <li>Le traitement plasma a pression atmospherique de polymeres pour applications bio- medicales, Institut Européen des Membranes, Montpellier, France, 10 Avril-10 May 2007.</li> <li>Biomaterials. Tests of biocompatibility - Master cours, Leopold Franzens University, Innsbruck, Austria, May 2005.</li> <li>b) Invited talks (title of lecture)</li> </ul>
	<ul> <li>Medical applications of atmospheric pressure plasma. Tissue – polymeric implants interface, Université de Lille 1, France, September, 2014.</li> <li>Plasma Physics Laboratory of lasi, at Conference "40 Jahre Institut fur Ionenphysik in Innsbruck", Leopold Franzens University, Innsbruck, Austria, December 2007.</li> <li>Optimization of the blood-polymer materials interface by plasma treatments, 4th Joint workgroup meeting COST 527, University of Barcelona, Catalunya, Sant Feliu de Guixols, Spania, 2-5 October 2005.</li> <li>Hemocompatibility of PA-6 surfaces treated by a dielectric barrier discharge, University of Barcelona, Spain, June 2004.</li> <li>DBD and its medical applications, Leopold Franzens University, Innsbruck, Austria, May 2004.</li> </ul>
	<ul> <li>Traitements des surfaces polymeres par une decharge a barriere dielectrique, Université Paris-Sud Orsay, France, December 2003.</li> <li>Tests of biocompatibiliy, Comenius University, Bratislava, Slovacia, May 2002.</li> <li>c). Co - editor at the Analele "Alexandru Ioan Cuza University of Iasi". Plasma Physics</li> </ul>
	section (2000-2005). d). Coordinator Socrates /Erasmus at the Faculty of Physics (2000-2010).

N. Sumitrata

April 2021