

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	NICOLETA – VIORICA DUMITRASCU		
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Nationality	Romanian		
Gender	Female		

Present employment / position

Professor *Emeritus*

Work experience

Dates	<p>1974 - 1977, professor, Industrial school no. 7, Iasi</p> <p>1977 - 1990, assistant, Department of Physics, <i>Gheorghe Asachi</i> Technical University, Iasi</p> <p>1990 - 2001, lecturer, <i>Alexandru Ioan Cuza</i> University of Iasi</p> <p>2001 - 2007, assoc. professor, <i>Alexandru Ioan Cuza</i> University of Iasi</p> <p>2007 – professor, <i>Alexandru Ioan Cuza</i> University of Iasi</p> <p>2009 – PhD supervisor.</p>
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Occupation or position held	Professor
Name and address of employer	Faculty of Physics, <i>Alexandru Ioan Cuza</i> University of Iasi, Romania
Type of business or sector	

Education and training

Dates	<ul style="list-style-type: none"> • 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) • B.Sc. in Physics (1973), with average grade 9.83 (10 maximum)
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Title of qualification awarded	Physicist
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Principal subjects/occupational skills covered	<ul style="list-style-type: none"> • Biomaterials characterization. Biocompatibility testing of materials for medical applications • Plasma techniques for immobilization of biological molecules (heparin, albumin, IgG, antibiotics etc.) onto the polymeric surfaces • Reactions of polymerization under the plasma conditions • Optical and electrical diagnosis of plasma. Dielectric barrier discharges • Waves and instabilities in low temperature plasmas.
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Name and type of organisation providing education and training	Faculty of Physics, <i>Alexandru Ioan Cuza</i> University of Iasi, Romania.										
Personal skills and competences	<ul style="list-style-type: none"> • Biomaterials and biocompatibility testing of materials used in medical applications • Optical and electrical diagnosis of plasmas at atmospheric pressure • Mechanisms of polymerization • Techniques of biomolecules characterization 										
Mother tongue(s)	Romanian										
English											
Self-assessment <i>European level (*)</i>	Understanding				Speaking				Writing		
	Listening		Reading		Spoken interaction		Spoken production				
	C1	Proficient user	C1	Proficient user	A2	Basic user	A2	Basic user	B1	Independent user	
Organisational skills and competences	<ul style="list-style-type: none"> • Participation at International programmes of scientific cooperation: Brancusi (2000-2002), COST (2003-2007), CEEPUS (2003-2007; 2007-2012, 2012-2015) Socrates / Erasmus (2000-2015). • Convenor at ESF Exploratory Workshop about <i>Manipulation of Biomaterials surface by Plasma Processing</i> (May 2010) • Peer review activities at <i>Applied Surface Science, Elsevier, IEEE Transactions on Plasma Physics, J. of Coll. Inter Sci., ACS Appl. Mat & Interface, Acta Biomaterialia.</i> 										
Teaching activities	<p>Courses (2009-2016):</p> <ul style="list-style-type: none"> • <i>Biomaterials and biocompatibility</i>. Master II, Plasma Physics, Biophysics and Medical Physics • <i>Ecosystem and interactions with human</i>. Master II, Plasma Physics • <i>Elements of plasma physics. Medical applications</i>. Bachelor III, Biophysics and Medical Physics. 										
Scientific research activity	<p>a) Scientific papers</p> <ul style="list-style-type: none"> • 41 articles ISI: 35 articles in the topic of <i>Plasma treatments of biomaterials surface and Biocompatibility testing of materials</i>. • 5 Books: <ul style="list-style-type: none"> - <i>Biomaterials and Plasma Processing</i>, Eds. N. Dumitrascu, I.Topala, ISBN: 978-973-703-543-1, 2011. - <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. - <i>Biomaterials and Biocompatibility</i>, pgs. 312, Ed. Univ. Al.I.Cuza Iasi, 2007. - <i>Dielectric barrier discharge and treatments of polymer surfaces</i> - in <i>Plasmas non thermiques et applications</i>, vol. II, N. Dumitrascu, Ed. Univ. Al. I. Cuza Iasi, 2003. - <i>Introducere în Fizica Plasmei</i>, partea I-a, N. Dumitrascu, Ed. Junimea, Iasi, 1999. <p>b) Scientific grants</p> <ul style="list-style-type: none"> • 6 grants : 3 grants CNCSIS as director, and 3 grants CEEX as coordinator • 2 international grants: Brancusi and COST (<i>Plasma Polymers and Related Materials</i>) as member • 11 grants CNCSIS as member. <p>c) ISI citations:</p> <ul style="list-style-type: none"> • 397 in ISI journals, 2 books and 1 USA patent. 										
Other activities	<p>a) Visiting professor</p> <ul style="list-style-type: none"> • <i>Plasma processing of materials and biointerfaces</i>, Leopold Franzens University, 										

Innsbruck, Austria, June 2012.

- *Le traitement plasma a pression atmospherique de polymeres pour applications bio-medicales*, Institut Européen des Membranes, Montpellier, France, 10 Avril-10 May 2007.

- *Biomaterials. Tests of biocompatibility* - Master cours, Leopold Franzens University, Innsbruck, Austria, May 2005.

b) Invited talks (title of lecture)

- *Medical applications of atmospheric pressure plasma. Tissue – polymeric implants interface*, Université de Lille 1, France, September, 2014.

- *Plasma Physics Laboratory of Iasi*, at Conference „40 Jahre Institut fur Ionenphysik in Innsbruck”, Leopold Franzens University, Innsbruck, Austria, December 2007.

- *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.

- *Hemocompatibility of PA-6 surfaces treated by a dielectric barrier discharge*, University of Barcelona, Spain, June 2004.

- *DBD and its medical applications*, Leopold Franzens University, Innsbruck, Austria, May 2004.

- *Traitements des surfaces polymeres par une decharge a barriere dielectrique*, Université Paris-Sud Orsay, France, December 2003.

- *Tests of biocompatibility*, Comenius University, Bratislava, Slovakia, May 2002.

c). Co - editor at the Analele “Alexandru Ioan Cuza University of Iasi”. Plasma Physics section (2000-2005).

d). Coordinator Socrates /Erasmus at the Faculty of Physics (2000-2010).

N. Dumitrescu

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