



Europass Curriculum Vitae

PERSONAL INFORMATION

First name / Surname

Corina Gabriela DORCIOMAN

Affiliation:

National Institute for Lasers, Plasma and Radiation Physics

Institution address

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Nationality

Romanian

Sex

Feminine

WORK EXPERIENCE

2024 - to date

Senior Scientific Researcher 2nd degrees, National Institute for Lasers, Plasma & Radiation Physics (NILPRP), Lasers Department, Laser-Surface-Plasma Interactions (LSPI) Laboratory;

Synthesis of organic and inorganic materials by laser techniques (pulsed laser deposition; matrix assisted pulsed laser evaporation);

2012 - 2024

Senior Scientific Researcher 3rd degrees, NILPRP, Lasers Department, LSPI Laboratory, Synthesis of organic and inorganic materials as thin films by laser techniques; laser nanostructuring of surfaces;

2004 - 2011

Scientific Researcher, NILPRP, Lasers Department, LSPI Laboratory

Synthesis of organic and inorganic materials as thin films by laser techniques; nanoparticles synthesis in vacuum; laser processing of surfaces

2001 - 2004

Research Assistant, NILPRP, Lasers Department, LSPI Laboratory

Material science; laser-matter interactions; laser processing of materials and surfaces; thin film deposition by excimer laser irradiation

1999 – 2003

1997 - 1999

Physics Teacher; High school No. 11, Bucharest, Romania.

Didactic activity

EDUCATION AND TRAINING

2001 - 2011

Doctoral School, "Optics, Spectroscopy, Lasers" domain

Thesis „**Synthesis of thin layers by pulsed laser technologies: very hard coatings (ZrC) and nanostructures (metallic oxides and polymer)**”, University of Bucharest

PhD in the field of Exact Sciences, Physics Area

1997 - 1998

MSc, Physics Department, University of Bucharest, Romania

1992 - 1997

BSc, Physics, University of Bucharest, Romania

1988 - 1992

High school, „Ion C. Bratianu” (former “Nicolae Balcescu”) National College, Pitesti, Arges

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

UNDERSTANDING

SPEAKING

WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1
French	B1	B2	B1	B1	B1
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					
Communication skills	Good interpersonal communication and relationship skills, adapting language to the interlocutor and the ability to give and receive feedback, acquired through years of experience working in research teams, following national and international collaborations and participation in scientific events.				
Organisational / managerial skills	Project management skills acquired through involvement in research projects, from conception/drafting to funding, implementation, and completion. Experience gained in two projects as project manager and over 50 national and international projects as a team member. Active involvement in conferences' organization; Leadership and teamwork skills; excellent organizational skills; Effectiveness and efficiency in critical situations; Experience in working with budgets and resources for scientific projects funded by various programs				
Job-related skills	Knowledge of laser physics, laser-matter interaction, laser deposition of thin films. Experience in handling laboratory equipment (pulsed laser deposition systems, vacuum systems). Laser deposition of various thin films: hard coatings (carbides and nitrides), oxides, organic/inorganic compounds for biomedical applications. Optical, structural, and morphological characterization of the obtained thin layers. Experience in organizing and processing scientific data; drafting scientific materials in the form of posters, manuscripts, research reports, and research projects.				
Digital competence	Good command of MS Office (Word, Excel, PowerPoint), Origin, Adobe Acrobat				
SELF-ASSESSMENT					
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid					
Other skills	Analytical thinking Involvement in solving problems that arise in the professional environment Motivational attitude within work teams Ability to adapt to different situations				
Driving license	B				
Supplementary informations					
Projects	<p>Management:</p> <ol style="list-style-type: none"> PN-II-RU-PD-2012-3-0346, "Comprehensive study of the effects induced to thin films of transition metal nitrides and carbo-nitrides by ion irradiation", 2013-2015 PN-III-P2-2.1-PED-2019-4926, "Novel strategies to improve the performances of medical textiles", 2020-2022 <p>Team member for projects under different financial programme:</p> <p>International projects:</p> <ol style="list-style-type: none"> RO-NO-2019-0498 „Thermochromic VO₂ for energy-efficient smart windows" (2021-2023); NATO SfP – 984890 „Energy - efficient decontamination by UV & cold plasma using metamaterials" (2017-2019); 				

	<p>3. MERA-NET 7-083/2014 “Ag/Si doped carbon layers for medical applications” (2014-2017);</p> <p>4. IFA-CEA C3-03 “Radiation effects in SiC: the role of the ratio between the grain size to displacement cascades length” (2013-2016).</p> <p>5. EUREKA (BIONANOCOMPOSIT E13033) 37/2005 „Hydroxyapatite nanocomposite ceramics – new implant material for bone substitute” (2005–2006);</p> <p>6. NANOPHOS IST-2001-39112 „Nanostructured Photonic Sensors” (2002–2005);</p> <p>7. FENIKS G5RD-CT-2001-00535 „Ferromagnetic semiconductors and novel magnetic semiconductor heterostructures for improved knowledge on spintronics” (2001–2005);</p> <p>8. SIMI G5RD-CT-2000-00423 „Surface Improvement of Metal Implants: new preparation methods and new materials” (2000–2004);</p> <p>9. NATO PST.CLG 980464: “Controlled thin film doping by two synchronized laser systems for nano-electronic applications”, (2003–2004);</p> <p>10 NATO PST.CLG 977325: “Multiwavelength plasma investigations for applications in thin film deposition and processing”, (2002–2003).</p> <p>National projects: Partnership Program 5 projects; IDEAS Program: 8 projects; ROSA-STAR Program: 4 projects; EXPERIMENTAL-DEMONSTRATIV Program: 11 projects; IFA-ELI Program: 3 projects; PNCDI 2001-2011: >35 projects; POSDRU Program: 1 project; POC Program: 2 projects.</p>
Fellowship/Summer school	<p>1. February-April 2004, Erasmus-Socrates Fellowship at Laboratoire Laser, Plasma et Procédés Photoniques, Université de la Méditerranée, Marseille, France. The subject “LIFT method study (Laser-induced forward transfer) in the ns regime”</p> <p>2. 13 – 20.07.2008 1st International School on “Laser-surface interactions for new materials production: tailoring structure and properties”, Venice International University, Venetia, Italia;</p> <p>3. 13 – 20.07.2014 12th IUVSTA School on Lasers in Materials Science “Laser Engineering of Surfaces and Coatings”, Venice International University, Venetia, Italia.</p>
Publications	60 cf. WoS (ISI articles 47; non-ISI articles 8; book chapters 5)
Citations	≥ 800 (without self-citations cf. WoS) h-index: 17
Patents	1. V. Grumezescu, I. Neguț, G. Dorcioman, “Rețetă de obținere a unor nanosisteme pentru îmbunătățirea suprafeței pansamentelor textile”, CBI A/00758 / 23.11.2023, RO138169(A2), patent No. 138169/30.05.2024”
Identifiers	https://www.brainmap.ro/gabriela-dorcioman https://www.scopus.com/authid/detail.uri?authorid=23003977200 ; http://www.researcherid.com/rid/C-5875-2011 ; https://orcid.org/0000-0002-8323-9150 .