



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Gabriel Socol**
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Nationality Romanian

Date of birth 04.10.1976

Gender Male

Work experience

Dates **01.10.2015-present**
Occupation or position held Head of Laser Department, INFLPR
Main activities and responsibilities Management of Laser Department, INFLPR

Dates **01.10.2011-present**
Occupation or position held Senior Research Scientist 1st degree
Main activities and responsibilities Deposition and modification of thin solid structures by high intensity laser irradiation; biomaterials; optoelectronics and sensors; hard coatings, magnetism; photovoltaic and photocatalysis.
 Research contracts
 Member of INFLPR Scientific Council

Name and address of employer National Institute for Laser, Plasma and Radiation Physics (INFLPR), 409 Atomistilor, RO-77125, Magurele, Bucharest , Romania (www.inflpr.ro)
Type of business or sector Research

Dates **03.2009-01.10-2011**
Occupation or position held Senior Research Scientist 2nd degree
Main activities and responsibilities Laser processed structures: deposition experiments and investigation
 Research contracts
 INFLPR organization activities
 Applications: biomaterials, gas sensors, magnetism, hard coatings, photonics, solar cell
 Member and Secretary of INFLPR Scientific Council

Name and address of employer	National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor, RO-77125, Magurele, Bucharest , Romania (www.inflpr.ro)
Type of business or sector	Research
Dates	2006-03.2009
Occupation or position held	Senior Research Scientist 3 rd degree
Main activities and responsibilities	Laser processed structures: deposition experiments and investigations Research contracts
Name and address of employer	National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor, RO-77125, Magurele, Bucharest , Romania (www.inflpr.ro)
Type of business or sector	Research
Dates	2003-2006
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Laser processed structures: deposition experiments and investigation
Name and address of employer	National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor, RO-77125, Magurele, Bucharest , Romania (www.inflpr.ro)
Type of business or sector	Research
Dates	2001-2003
Occupation or position held	Research Assistant
Main activities and responsibilities	Laser processed structures: deposition experiments and investigation
Name and address of employer	Institute of Microtechnology / National Institute for Laser, Plasma and Radiation Physics
Type of business or sector	Research
Dates	2000-2001
Occupation or position held	Junior Research Assistant
Main activities and responsibilities	Quality studies- <i>Reliability of electronic components</i>
Name and address of employer	Institute of Microtechnology Erou Iancu Nicolae, Nr.126A, Baneasa-Bucuresti, www.imt.ro , +40-21-269.07.70
Type of business or sector	Research

Education and training

Dates	2010-2012
Title of qualification awarded	Post Doctoral Stage
Principal subjects/occupational skills covered	Biomaterials, nanostructures and pharmacophores: Laser applications in nanostructures for controlled drug administration, implants and tissue reconstruction
Name and type of organisation providing education and training	Institute of Biochemistry, Romania
Dates	2001-2006
Title of qualification awarded	PhD with "Summa cum laude" distinction
Principal subjects/occupational skills covered	"Thin films of biomaterials obtained by PLD methods for a new generation of medical implants"
Name and type of organisation providing education and training	Bucharest University, Romania National Institute for Laser, Plasma and Radiation Physics

Dates **2000-2001**
 Title of qualification awarded Master in Physics
 Principal subjects/occupational skills covered Master thesis "Study of infrared sensors"
 Name and type of organisation providing education and training Bucharest University, Romania

Dates **1995-2000**
 Title of qualification awarded Bachelor in Physics
 Principal subjects/occupational skills covered Diploma Thesis: "Connectors for optical fibers".
 Name and type of organisation providing education and training Bucharest University, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
 European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Advanced	C2	Upper intermediate	C1	Advanced

(*) [Common European Framework of Reference for Languages](#)

Organizational skills and competences

Certification from Ministry of Education and Research for management of the research projects ;
 Certification from Ministry of Education and Research for manager;

- 2014-present: Member of INFLPR Scientific Council;
- Member in hiring and promotion committees in INFLPR and Faculty of Physics, University of Bucharest;
- 2013-present: Member of Doctoral School Council, Faculty of Physics – University of Bucharest;
- 2010-2014: Member and Secretary of INFLPR Scientific Council;
- since 2011, referent in the committee of 12 PhD theses, Faculty of Physics – University of Bucharest;

Director of research contracts:

- 2010 - 2013, TE contract No. 84/2010, "Nanostructures processed by laser techniques for photovoltaic applications", UEFISCDI, 170 000 EURO.
- 2012 – 2016, PCCA contract No. 153/2012 "Fabrication of osteoinductive orthopedic implants with gradual 3D hierarchical structure", UEFISCDI, 700 000 EURO.
- 2015-2017, TE contract No. 188/2015 "Controlled external activation of drug release from smart polymeric systems", 125 000 EURO.
- 2016-2017, Program NUCLEU, No. 4N/2016_16 47 01 03, "Multi-disciplinary studies based on laser, plasma and radiation processing for public interest (HEALTH& ENVIRONMENT)"
- 2018-2020, contract no. 63PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0728, "Integrated development project for advanced medical treatment technologies", 1 130 000 EURO.

2016-2019, Technical Manager, Competitiveness operational programme (POC) „Interdisciplinary inovative center of photonics and plasma for eco-nano technologies and advanced materials”, 13 600 000 EURO

Organizational skills and competences	<p>Member in research contracts:</p> <ul style="list-style-type: none"> - 3 FP V projects (SIMI G5RD-CT-2000-00423, FENIKS G5RD-CT-2001-00535, NANOPHOS IST-2001-39112); - 1 EUREKA project (BIONANOCOMPOSIT E!3033); - 1 M-ERANET project (CARLA); - 1 grant NATO CLG (NATO CBP.EAP.CLG.982793); - 1 European project (DECHIR-CHAFILI-IB7320-111073/1); - over 40 national projects (Grants, PNCDI1, CEEX2, PNCDI2, etc.). <p>Reviewer for International Journals: Thin Solid Films, Applied Surface Science, Surface & Coatings Technology, Journal of Nuclear Materials, Solid State Sciences, Vacuum, Materials Science & Engineering B, Materials Letters, Materials Science in Semiconductor Processing, Journal of Photochemistry and Photobiology A: Chemistry, Materials Chemistry and Physics, Optics and Lasers in Engineering, Journal of Materials Processing Technology, Materials Science and Engineering C.</p>
Technical skills and competences	Optics, lasers, vacuum and material physics; electrical, optical, structural and morphological investigations, designing of experimental setups.
Computer skills and competences	Microsoft Office, Adobe Photoschop, Origin, Labview and web design. networking infrastructures;
Other skills and competences	Training in laboratory skills of young researchers. Ability to work on several topics at the time
Additional information	<p>Publications and patents:</p> <ul style="list-style-type: none"> - over 210 publications in international journals; - over 2000 citations and Hirsh factor = 23 (according with Web of Knowledge) - Patents: <ol style="list-style-type: none"> 1. Popescu M., Lőrinczi A., Sava F., Tomescu A., Simion C., Mihăilescu I.N., Socol G., Axente E., Micloş S., Savastru D. "Methane sensitive material and threshold sensor for methane detection", No. A/00941, (OSIM), 2006. 2. Chiriac A., Poata I., Mihăilescu I.N., Socol G., Duta L., Popescu A.C., Sima F., Miroiu M., Stan G., Petrescu S., Ianculescu A., Mesh made of Ti with biofunctionalized surface with nanostructured hydroxyapatite thin films for cranioplasty, RO128190-A2 ; RO128190-B1, (2010).
Annexes	<p>1. Publication list Researcher ID: http://www.researcherid.com/rid/A-5405-2011</p>

Date,
06.06.2018

Signature,