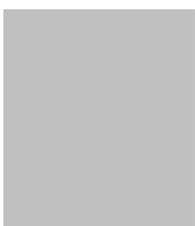


PERSONAL INFORMATION

Silviu-Daniel Stoica



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Sex M | Date of birth 08/06/1983 | Nationality Romanian

WORK EXPERIENCE

- Scientific Researcher**
Low Temperature Plasma Laboratory at National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest-Magurele, web: <http://www.inflpr.ro/ro>
- January 2011 – Present
Synthesis of carbon nanostructures in a RF plasma jet at low pressure and investigation/diagnosis of plasmas used for their deposition, low temperature plasma physics and technology
Research and development
- Research Assistant**
Low Temperature Plasma Laboratory at National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest-Magurele, web: <http://www.inflpr.ro/ro>
- August 2008 – January 2011
Systems designer, synthesis of carbon nanostructures in a RF plasma jet at low pressure, investigation/diagnosis of plasmas used for CNW deposition
Research and development
- Research Trainee Assistant**
Low Temperature Plasma Laboratory at National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest-Magurele, web: <http://www.inflpr.ro/ro>
- January 2008 – August 2008
Systems designer, thin films deposition in low pressure RF plasma jet, gas discharge experiments
Research and development
- Technician**
Low Temperature Plasma Laboratory at National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest-Magurele, web: <http://www.inflpr.ro/ro>
- November 2005 – January 2008
Thin films deposition in low pressure RF plasma jet, gas discharge experiments
Research and development

EDUCATION AND TRAINING

- October 2009 - September 2012
Doctor in the field of Physics
Faculty of Physics, Bucharest University, Romania
- October 2007-June 2009
Master in Physics, specialization "Optics, Spectroscopy, Plasma and Lasers"
Faculty of Physics, Bucharest University, Romania
- October 2002- June 2007
Bachelor degree, Faculty of Physics, specialization "Physics Technology" section "Optics, Spectroscopy, Plasma and Lasers"
Faculty of Physics, Bucharest University, Romania
- September 1998-June 2002
Baccalaureate degree
Nehoiu Technical High school, Buzau, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Job-related skills Plasma Enhanced Chemical Vapour Deposition combined with magnetron sputtering for high quality nanostructured carbon material deposition, for applications in different fields (chemistry, medicine, gas sensors).
Spectral, electrical and mass diagnosis of plasma sources used in materials processing, for identification of active species and radicals formed from chemical reactions in plasma and processes responsible for deposition mechanisms.
Synthesis experiments in plasma of nanostructured carbon materials and modification of their properties through post-synthesis treatments.
PC operation, Windows XP/Vista/7/8.1/10, Office XP/2003/2013, Origin, Macromedia, WebDesign, Corel Draw.

Other skills Development and updating of the research workgroup web page (<http://plasmat.inflpr.ro>);
Elaboration of scientific papers and research reports;

Driving licence B, from 2001

ADDITIONAL INFORMATION

Publications 8 ISI papers
Projects Participant in 10 national research – development projects (4 ongoing)
Conferences 34 communications at international conferences, 3 communications at national conferences

ANNEXES

ISI papers

1. S.I. Vizireanu, G. Dinescu, **D. Stoica**, R. Birjega, C. Ghica, V. Teodorescu, L. Nistor, R. Ganea, *Fe-catalyzed carbon nanotubes growth on fluidized powders by remote radiofrequency plasma beam*, Journal of Optoelectronics and Advanced Materials, 10, 8, 2056-2060 (2008)
2. S. Vizireanu, **S.D. Stoica**, B. Mitu, M.A. Husanu, A. Galca, L. Nistor, G. Dinescu, *Radiofrequency plasma beam deposition of various forms of carbon based thin films and their characterization*, Applied Surface Science, 255, 5378–5381 (2009)
3. S. Vizireanu, **S.D. Stoica**, C.R. Luculescu, L.C. Nistor, B. Mitu, G. Dinescu, *Plasma techniques for nanostructured carbon materials synthesis. A case study: carbon nanowall growth by low pressure expanding RF plasma*, Plasma Sources Science and Technology, 19, 034016 (2010)
4. N.D. Scarisoreanu, A.C. Galca, L. Nedelcu, A. Ioachim, M.I. Toacsan, E. Morintale, **S.D. Stoica** and M. Dinescu, *Optical and structural studies on Ba(Mg_{1/3}Ta_{2/3})O₃ thin films obtained by radiofrequency assisted pulsed plasma deposition*, Applied Surface Science, 256, 6526-6530, (2010)
5. C.M. Ticos, **S.D. Stoica** and G.L. Delzanno, *Generation of dust projectiles passing over an obstacle in the plasma sheath*, Phys. Plasmas 19, 083701 (2012)

6. D.L. Cursaru, S. Vizireanu, S. Mihai, D. Ghita, **S.D. Stoica**, G. Dinescu, *Friction and wear properties of carbon nanowalls coatings*; DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 9 (3) 1105 – 1114 (2014)
7. M. Mozetic, A. Vesel, **S.D. Stoica**, S. Vizireanu, G. Dinescu, R. Zaplotnik, Applied Surface Science 333 207-213 (2015)
8. M.D. Ionita, S. Vizireanu, **S.D. Stoica**, M. Ionita, A.M. Pandele, A. Cucu, I. Stamatina, L.C. Nistor and G. Dinescu, *Functionalization of carbon nanowalls by plasma jet in liquid treatment*, Eur. Phys. J. D 70: 3 (2016)

Experience accumulated in national/international programs (only ongoing)

Dezvoltarea unor biomateriale compozite biopolimer-grafena pentru fabricarea scaffold-urilor pentru reparare osoasa prin combinarea tehnicilor experimentale cu modelarea moleculara la multiscala/ Polygraph/ PN-II-PCCA-140/ MCT/” Contract Parteneriate-tip 1 (PN – II-PT-PCCA-2011_3.1-1538), Autoritate contractanta UEFISCDI – conducator proiect: Universitatea Politehnica Bucuresti	Participant	2012 – 2016
PNCDI II IDEI - Diagnostica procesării cu plasmă: nanofibre versus nanopereți de carbon	Participant	2013 - 2016
Contract 253/2014 - Noi acoperiri nanostructurale multifunctionale pentru implanturi ortopedice	Participant	2014 – 2016
Contract 220/2014 - Acumulator redox cu capacitate de incarcare rapida, ca sursa principala de energie pentru autovehiculele electrice	Participant	2014 – 2016
Contract TE 112/2015 - O metoda noua de sinteza a particulelor metalice la presiune atmosferica - o abordare cu plasma rece	Participant	2015 – 2017
Contract euratom WP-PFC-C - Participarea Romaniei la EUROfusion WPPFC-C si cercetari complementare-partea complementara	Participant	2014 - 2016