



## Europass Curriculum Vitae

### Personal information

**First name(s) / Surname(s)** **Elena Claudia Stancu**  
**Address(es)** Office: National Institute for Lasers, Plasma and Radiation Physics, 409 Atomistilor Street, 077125, Magurele - Bucharest, Romania  
**Telephone(s)** Office: +4 021 45 74 470  
**E-mail** claudia.stancu@infim.ro  
**Nationality** Romanian  
**Date of birth** 20.02.1982  
**Gender** Female

### Desired employment / Occupational field

**Scientific Researcher**

### Work experience

**Dates** December 2005 onwards  
**Occupation or position held** Scientific Researcher  
**Main activities and responsibilities** Low temperature plasma, radio-frequency plasma at low and atmospheric pressure, plasma processing of surfaces for interaction with living cells, plasma in liquid for environmental applications, thin film deposition  
**Name and address of employer** National Institute for Laser, Plasma and Radiation Physics (NILPRP)  
Atomistilor 409, CP MG 36, 077125 Magurele-Bucharest, Romania  
<http://inflpr.ro>  
**Type of business or sector** Research and development

### Education and training

**Dates** October 2007 – September 2011  
**Title of qualification awarded** PhD in Physics  
**Principal subjects** Thesis title: "Applications of Plasma in Biology, Medicine and for Environmental Purpose"  
**Name and type of organisation providing education and training** University of Bucharest, Doctoral School of Physics, Department of Optics, Spectroscopy, Plasma and Lasers  
**Level in national or international classification** ISCED 6

**Dates** October 2005 – February 2007  
**Title of qualification awarded** MSc degree in Biophysics and Medical Physics  
**Principal subjects** Thesis title: "Interaction of Biological Material with Plasma Treated Surfaces"  
**Name and type of organisation providing education and training** University of Bucharest, Faculty of Physics, Department of Biophysics and Medical Physics  
**Level in national or international classification** ISCED 6

**Dates** October 2006 – December 2006  
**Title of qualification awarded** Erasmus Stage  
**Principal subjects** Experimental work – Biophysics

Name and type of organisation providing education and training | University of Leiden, Department of Biophysics

Dates | October 2000 – June 2005

Title of qualification awarded | Engineer Diploma

Name and type of organisation providing education and training | University of Bucharest, Faculty of Physics, Computing Department

Level in national or international classification | ISCED 5

**Personal skills and competences**

Mother tongue(s) | **Romanian**

Other language(s)

Self-assessment

*European level (\*)*

**English**

**French**

**German**

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
	C1		C1		C1		C1
	B2		B2		B1		B1
	A2		A2		A2		A2

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

Social skills and competences | Good team worker, ambitious, perseverance, with initiative, focusing on objectives, long hours work and under stress

Organisational skills and competences | Good sense of organisation, project management skills proved by participation at national and international projects

Driving licence | B

**Annexes** | List of publications

## Annexes

### List of publications

#### ISI articles

- 1) G. Dinescu, B. Mitu, S. Vizireanu, E.R. Ionita, I. Luciu, M.D. Ionita, C. Stancu, *E.C. Stancu*, T. Acsente, L. Nistor, L. Kravets, Material Processing with Radiofrequency Plasmas at Low and Atmospheric Pressure, *Romanian Reports in Physics*, Vol. 60, No. 3, P. 679–690 (2008).
- 2) E.R. Ionita, M.D. Ionita, *E.C. Stancu*, M. Teodorescu, G. Dinescu, Small Size Plasma Tools for Material Processing at Atmospheric Pressure, *Applied Surface Science*, Vol. 255, Issue 10, P. 5448-5452 (2009).
- 3) M.D. Ionita, M. Teodorescu, C. Stancu, *E.C. Stancu*, E.R. Ionita, A. Moldovan, T. Acsente, M. Bazavan, G. Dinescu, Surface Modification of Polymers at Atmospheric Pressure in Expanding RF Plasmas Generated by Planar DBD, *Journal of Optoelectronics and Advanced Materials*, Vol. 12, ISS.3, P. 777-782 (2010).
- 4) *E.C. Stancu*, M.D. Ionita, S. Vizireanu, A.M. Stanciuc, L. Moldovan, G. Dinescu, Wettability Properties of Carbon Nanowalls Layers Deposited by a Radiofrequency Plasma Beam Discharge, *Materials Science and Engineering: B*, Vol. 169, Issues 1-3, P. 119-122 (2010).
- 5) *E.C. Stancu*, A.M. Stanciuc, M.D. Ionita, M. Teodorescu, L. Moldovan, G. Dinescu, Atmospheric Pressure Plasma Preparation of Micropatterned Teflon Surfaces for Interaction with Cells, *Romanian Journal of Physics*, Vol. 56, P. 149–155 (2011).
- 6) *E.C. Stancu*, A.M. Stanciuc, S. Vizireanu, C. Luculescu, L. Moldovan, A. Achour, G. Dinescu, Plasma Functionalization of Carbon Nanowalls and its Effect on Attachment of Fibroblast-like Cells, *Journal of Physics D Applied Physics*, Vol. 47 (2014).
- 7) R. Ion, S. Vizireanu, *E.C. Stancu*, C. Luculescu, A. Cimpean, G. Dinescu, Surface Plasma Functionalization Influences Macrophage Behavior on Carbon Nanowalls, *Materials Science and Engineering: C*, Vol. 48, P. 118-125 (2014).

#### Contribution to conference book

- 1) G. Dinescu, *E.C. Stancu*, E.R. Ionita, M. Teodorescu, M.D. Ionita, A.M. Stanciuc, L. Moldovan, Cold Expanding Plasma Sources for Processing of Biomaterials Surfaces, *Biomaterials and Plasma Processing*, editors N. Dumitrascu, I. Topala, Editura Universitatii "Alexandru Ioan Cuza", Iasi, ISBN 978-973-703-543-1 (2011).

#### Patents

- 1) G. Dinescu, M. Teodorescu, *E.C. Stancu*, E. Grosu, C. Stanescu, Atmospheric Pressure Plasma Treatment of the Outer Surface of Cylindrical Objects (Tubs, Wires, Rods) Made of Polymers, Patent No. A/01170 (sent 16.11.2011).
- 2) G. Dinescu, M. Teodorescu, E.R. Ionita, *E.C. Stancu*, System with Atmospheric Pressure Plasma and Method for Inner Surface Treatment of Dielectric Tubes, Patent No. A/01353 (sent 08.12.2011).

#### Proceedings

- 1) E.R. Ionita, M. D. Ionita, *E.C. Stancu*, V. Satulu, M. Teodorescu, G. Dinescu, Operations Domains of a Small Size Atmospheric Pressure Cold Plasma Source and its Application to Polymer Surface Modification, 35<sup>th</sup> European Physical Conference (35<sup>th</sup> EPS), Conference on Plasma Physics, Hersonissos, Greece, June 9-13 (2008).
- 2) *E.C. Stancu*, D. Piroi, M. Magureanu, G. Dinescu, Decomposition of Methylene Blue by a Cold Atmospheric Pressure Plasma Jet Source, 20<sup>th</sup> International Symposium on Plasma Chemistry, Philadelphia USA, July 24 - 29 (2011).  
[http://ispc20.plasmainstitute.org/my\\_ispc/papers/375.pdf](http://ispc20.plasmainstitute.org/my_ispc/papers/375.pdf).
- 3) A.T. Farcasiu, *E.C. Stancu*, M.D. Ionita, O.C. Andrei, G. Dinescu, Wettability Modification of Polymeric Denture Base Materials by Plasma Treatment, *Revista Romana de Stomatologie*, vol LVII (4) (2011).
- 4) *E.C. Stancu*, M.I. Moza, D. Maxim, G. Dinescu, Fungal Decontamination of Mural Paintings by Dielectric Barrier Atmospheric Pressure Planar Plasma Jet, 21<sup>th</sup> International Symposium on Plasma Chemistry, Queensland, Australia, August 4 - 9 (2014).  
<http://www.ispc-conference.org/ispcproc/ispc21/ID332.pdf>.