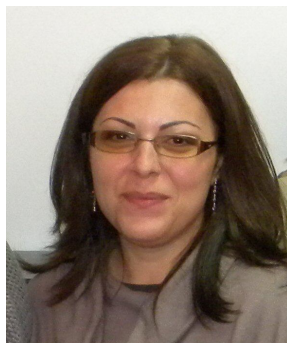


## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **IULIANA MORJAN(SOARE)**  
**Address(es)** House number, street name, postcode, city, country (remove if not relevant, see instructions)  
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**Telephone(s)** +4021 457 44 89 **Mobile:** +40 746 100 123  
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**E-mail** [luliana.soare@inflpr.ro](mailto:luliana.soare@inflpr.ro)  
**Nationality** Romanian  
**Date of birth** 07.07.1977  
**Gender** Female

### Desired employment / Occupational field **(remove if not relevant, see instructions)**

### Work experience

**Dates** December 2000 to present  
**Occupation or position held** Researcher  
**Main activities and responsibilities** - Scientific research in the field of carbon nanotubes obtained by LCVD technique.  
 - Scientific research in the field of different nanostructures (carbon, TiO<sub>2</sub>, SiC, Fe, FeO, FeC) obtained by gas phase laser pyrolysis.  
**Name and address of employer** National Institute for Laser, Plasma and Radiation Physics, Atomistilor 409, P.O.Box MG-36, Ro 76900, Bucharest-Magurele, ROMANIA  
 Tel.: (40-21) 457 44 89 - Fax:(40-21) 457 42 43  
 Website:<http://www.inflpr.ro>  
**Type of business or sector** Research and Development

### Education and training

**Dates** **2010-present**  
**Title of qualification awarded** Posdoc POSDRU/89/1.5/S/63700  
**Principal subjects/occupational skills covered** "The study of carbon nanotube growth by LCVD using iron-based catalysts" for photodetector applications.  
**Name and type of organisation providing education and training** IMT Bucharest  
**Dates** **2001-2010**  
**Title of qualification awarded** PhD

Principal subjects/occupational skills covered "Studies concerning the synthesis and characterization of carbon nanostructures obtained by laser pyrolysis". Experience in laser pyrolysis synthesis of different types of carbon nanostructures and carbon nanotubes synthesis by LCVD

Name and type of organisation providing education and training University of Bucharest (Faculty of Physics)

Dates **2000-2002**

Title of qualification awarded Masters Degree

Principal subjects/occupational skills covered "Carbon nanostructures synthesis by the lasers pyrolysis of hydrocarbons"

Name and type of organisation providing education and training University of Bucharest (Faculty of Physics)

Dates **1996-2000**

Title of qualification awarded University Degree

Principal subjects/occupational skills covered Physics

Name and type of organisation providing education and training University of Bucharest (Faculty of Physics)

Dates **1992-1996**

Title of qualification awarded Baccalaureate Degree

Principal subjects/occupational skills covered Mathematics and Physics

Name and type of organisation providing education and training High School Titu

**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			
B2	Independent user	B2	Independent User	B2	Independent user	B2	Independent user	B2	Independent user

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

Social skills and competences Replace this text by a description of these competences and indicate where they were acquired. (Remove if not relevant, see instructions)

Organisational skills and competences Good experience in project management. I drove for NILPRP the Project CEEEX 85 (NANOMAT)/2006-2008: "Advanced organic nanostructured materials for long term applications of wood and metal.

Technical skills and competences The ability to achieve complex experimental systems formed by lasers, reaction chambers, vacuum systems. Laser synthesis of nanoscale powder and composites (carbon (graphitic, fullerenic and nanotube layers), TiO<sub>2</sub>, TiC, Fe, FeC, FeO Si/C/N, Si/C/Ti, etc) from gaseous precursors; design of different flowing systems, installations and various reactors; study of the laser-induced reaction efficiency at medium- laser power; parametric dependence of particle composition and morphology. Thin films and coatings by laser-induced chemical deposition (LCVD). Different analytical methods for **nanostructure characterization** (transmission and scanning electron microscopy, high resolution electron microscopy, x-ray diffraction, Raman and IR spectroscopy)

Computer skills and competences - Good command of Microsoft Office TM tools (Word, Excel and PowerPoint)  
- Good command of computer graphics applications (Paint, Paint Shop Pro, Corel Draw).

**Annexes** Annexe 1. Publications list

## PUBLICATIONS LIST

### Iuliana Morjan (Soare)

#### Papers in ISI Journals

1. Morjan I, Voicu I, Dumitrache F, Sandu I, **Soare I**, Alexandrescu R, Vasile E, Pasuk I, Brydson RMD, Daniels H, Rand B, Carbon nanopowders from the continuous-wave CO<sub>2</sub> laser-induced pyrolysis of ethylene, *CARBON* 41 (2003) 2913-2921
2. Morjan I, Alexandrescu R, **Soare I**, Dumitrache F, Sandu I, Voicu I, Crunteanu A, Vasile E, Ciupina V, Martelli S, Nanoscale powders of different iron oxide phases prepared by continuous laser irradiation of iron pentacarbonyl-containing gas precursors, *Materials Science & Engineering C-Biomimetic and Supramolecular Systems* Volume: 23 Issue: 1-2 Pages: 211-216 Published: JAN 15 2003
3. Dumitrache F, Morjan I, Alexandrescu R, Morjan RE, Voicu I, Sandu I, **Soare I**, Ploscaru M, Fleaca C, Ciupina V, Prodan G, Rand B, Brydson R, Woodward A, Nearly monodispersed carbon coated iron nanoparticles for the catalytic growth of nanotubes/nanofibres, *Diamond and Related Materials* Volume: 13 Issue: 2 Pages: 362-370 Published: FEB 2004
4. R. R. Piticescu, Barbara Malic, Marija Kosec, A. Motoc, C. Monty, **Iulia Soare**, T. Kosmac and A. Daskobler, Synthesis and sintering behaviour of hydrothermally synthesised YTZP nanopowders for ion-conduction applications, *Journal of the European Ceramic Society*, Volume 24, Issue 6, (2004) Pages 1941-1944
5. Roxana M. Piticescu, Ana Maria Moisin, D. Taloi, V. Badilita and **Iuliana Soare**, Hydrothermal synthesis of ultradisperse PZT powders for polar ceramics, *Journal of the European Ceramic Society*, Volume 24, Issue 6, (2004) Pages 931-935
6. I. Morjan, I. Voicu, R. Alexandrescu, I. Pasuk, I. Sandu, F. Dumitrache, **I. Soare**, T. C. Fleaca, M. Ploscaru, V. Ciupina, H. Daniels, A. Westwood and B. Rand, Gas composition in laser pyrolysis of hydrocarbon-based mixtures: Influence on soot morphology, *Carbon*, Volume 42, Issue 7, 2004, Pages 1269-1273
7. F. Dumitrache, I. Morjan, R. Alexandrescu, V. Ciupina, G. Prodan, I. Voicu, C. Fleaca, L. Albu, M. Savoiu, I. Sandu, E. Popovici and **I. Soare**, Iron-iron oxide core-shell nanoparticles synthesized by laser pyrolysis followed by superficial oxidation, *Applied Surface Science*, Volume 247, Issues 1-4, 15 July 2005, Pages 25-31
8. R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, **I. Soare** and G. Prodan, Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO<sub>2</sub> laser pyrolysis, *Applied Surface Science*, Volume 248, Issues 1-4, 30 July 2005, Pages 138-146
9. I Sandu, I Morjan, I Voicu, R Alexandrescu, F Dumitrache, **I Soare**, C T Fleaca, L Albu, M Scarisoreanu and E Popovici, Self-assembly onto solid surface of some nanopowders synthesized by laser pyrolysis, *Smart Materials & Structures* Volume: 15 Issue: 3 Pages: 816-820 Published: JUN 2006
10. Jager C, Mutschke H, Huisken F, Alexandrescu R, Morjan I, Dumitrache F, Barjega R, **Soare I**, David B, Schneeweiss O, Iron-carbon nanoparticles prepared by CO<sub>2</sub> laser pyrolysis of toluene and iron pentacarbonyl, *Applied Physics A-Materials Science & Proceedings* Volume: 85 Issue: 1 Pages: 53-62 Published: OCT 2006
11. Morjan I, **Soare I**, Alexandrescu R, Morjan RE, Gavrilă-Florescu L, Prodan G, Sandu I, Popovici E, Dumitrache F, Voicu I, Scarisoreanu M, Carbon nanotubes growth from C<sub>2</sub>H<sub>2</sub> and C<sub>2</sub>H<sub>4</sub>/NH<sub>3</sub> by catalytic LCVD on supported iron-carbon nanocomposites, *Physica E-Low-Dimensional Systems & Nanostructures* Volume: 37 Issue: 1-2 Pages: 26-33 Published: MAR 2007
12. Tomescu A, Alexandrescu R, Morjan I, Dumitrache F, Gavrilă-Florescu L, Birjega R, **Soare I**, Prodan G, Bastl Z, Galikova A, Pola J, Structural and sensing properties of a novel Fe/Fe<sub>2</sub>O<sub>3</sub>/polyoxocarbosilane core shell nanocomposite powder prepared by laser pyrolysis, *Journal of Materials Science* Volume: 42 Issue: 5 Pages: 1838-1846 Published: MAR 2007
13. M. Scarisoreanu, I. Morjan, R. Alexandrescu, R. Birjega, I. Voicu, C. Fleaca, E. Popovici, **I. Soare**, L. Gavrilă-Florescu, O. Cretu, G. Prodan, V. Ciupina and E. Figgemeier, Effects of some synthesis parameters on the structure of titania nanoparticles obtained by laser pyrolysis, *Applied Surface Science*, Volume 253, Issue 19, 31 July 2007, Pages 7908-7911

14. R. Alexandrescu, I. Morjan, F. Dumitrache, R. Birjega, C. Jaeger, H. Mutschke, **I. Soare**, L. Gavrilă-Florescu and V. Ciupina, Structural characteristics of Fe<sub>3</sub>C-based nanomaterials prepared by laser pyrolysis from different gas-phase precursors, *Materials Science and Engineering: C*, Volume 27, Issues 5-8, September 2007, Pages 1181-1184
15. R. Alexandrescu, I. Morjan, M. Scarisoreanu, R. Birjega, E. Popovici, **I. Soare**, L. Gavrilă-Florescu, I. Voicu, I. Sandu, F. Dumitrache, G. Prodan, E. Vasile and E. Figgemeier, Structural investigations on TiO<sub>2</sub> and Fe-doped TiO<sub>2</sub> nanoparticles synthesized by laser pyrolysis, *Thin Solid Films*, Volume 515, Issue 24, 15 October 2007, Pages 8438-8445
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18. C.T. Fleaca, I. Morjan, R. Alexandrescu, F. Dumitrache, **I. Soare**, L. Gavrilă-Florescu, F. Le Normand, O. Ersen, Catalyzed growth of oriented carbon nanotubes using Fe-organosilicon core-shell nanoparticles, *Physica E-Low-Dimensional Systems & Nanostructures*, Vol. 40, 2252-2256 (2008)
19. R. Alexandrescu, I. Morjan, F. Dumitrache, M. Sarisoreanu, **I. Soare**, C. Fleaca, R. Birjega, E. Popovici, L. Gavrilă, G. Prodan, V. Ciupina, G. Filoti, V. Kuncser, L. Vekas, Photochemistry aspects of the laser pyrolysis addressing the preparation of oxide semiconductor photocatalysts *International Journal Of Photoenergy*, 2008, Article Number: 604181, 11 pages, 2008
20. R. Alexandrescu, M. Scarisoreanu, I. Morjan, R. Birjega, C. Fleaca, C. Luculescu, **I. Soare**, O. Cretu, C.C. Negrilă, N. Lazarescu and V. Ciupina, Preparation and characterization of nitrogen-doped TiO<sub>2</sub> nanoparticles by the laser pyrolysis of N<sub>2</sub>O-containing gas mixtures, *Applied Surface Science*, Vol. 255, 5373-5377 (2009)
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28. Florescu, LG ; Vasile, E; Sandu, I; **Soare, I**; Fleaca, C; Ianchis, R ; Luculescu, C ; Dutu, E ; Birjega, R; Morjan, I; Voicu, I, About graphene ribbons development in laser synthesized nanocarbon *APPLIED SURFACE SCIENCE*, 257 (2011) 5270-5273

29. Alexandrescu R, Morjan, I; Dumitrache, F; Birjega, R; Fleaca, C; **Soare, I**; Gavrilă, L ; Luculescu, C ; Prodan, G; Kuncser, V; Filoti, G, Recent developments in the formation and structure of tin-iron oxides by laser pyrolysis, APPLIED SURFACE SCIENCE 257 (2011) 5460-5464

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2. I. Morjan, F. Dumitrache, R. Alexandrescu, I. Voicu, C. Fleaca, I. Sandu, **I. Soare**, M. Savoiu, V. Ciupina, B. Rand, “Structural studies of controlled Fe-C nanocomposite systems, generated by laser Pyrolysis”, Proc. of the Intn’l Conference CARBON 2004, Rhode Islands, SUA, 12-15 iulie 2004
3. J. Pola, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, **I. Soare**, L. Albu, M. Savoiu, “Laser preparation and Characterization of Different Iron-Based Core-Shell Nanostructures: Foreseen Applications”, International Conference 2005 TMS Annual Meeting & Exhibition (The Minerals, Metals, Materials Society), San Francisco, U.S.A., 17-24 February 2005
4. I. Morjan, R. Alexandrescu, F. Dumitrache, I. Sandu, M. Scarisoreanu, L. Albu, **I. Soare**, I. Voicu, B. David, O. Schneeweiss, C. Fleaca, E. Popovici and V. Ciupina, “Composition influence on the properties of titanium-doped gamma iron oxide nanoparticles prepared by laser pyrolysis method”, MRS-Spring Meeting, San Francisco, CA, March 25-April 1, 2005
5. V. Ciupina, F. Dumitrache, I. Morjan, R. Alexandrescu, G. Prodan, C. Fleaca, E. Popovici, **I. Soare**, L. Albu, R. Birjega, B. David, O. Schneeweiss, “Iron/iron carbides/carbon core-shell nanostructures synthesized by laser pyrolysis”, SPIE 2005, San Diego
6. M. Scarisoreanu, R. Alexandrescu, C. Fleaca, E. Popovicia, **I. Soare**, L. Albu, I. Voicu, I. Morjan, R. Birjega, G. Prodan, V. Ciupina, « Structural Properties of nano TiO<sub>2</sub> synthesized by laser induced pyrolysis of gas phase », International student conference on Development in Optics and Photonics 2005 “DOP – 2005”, 30 April - 1 May 2005 Riga, Latvia
7. I. Morjan, J. Pola, R. Alexandrescu, F. Dumitrache, A. Tomescu, R. Birjega, L. Albu, **I. Soare**, I. Voicu, A. Galikova, V. Ciupina, Z. Bastl, “Newly Developed Fe-Fe<sub>2</sub>O<sub>3</sub>/Polyoxocarbosilane Core-Shell Nanocomposite Prepared by Laser Pyrolysis: Characterization and Sensing Properties, MRS - Mater. Res. Soc. Symp., San Francisco C.A. Spring Meeting, 17-21 April, 2006, – poster presentation
8. I. Morjan, M. Scarisoreanu, R. Alexandrescu, R. Birjega, **I. Soare**, I. Voicu, C. Fleaca, E. Popovici, F. Dumitrache, V. Ciupina and E. Figgemeier, “Phase Composition of TiO<sub>2</sub> Nanopowders Prepared by IR Laser Synthesis from Gaseous Precursors”, 2006 NSTI Nanotechnology Conference and Trade Show, May 7-11, 2006, Boston, Massachusetts
9. M. Scarisoreanu, I. Morjan, R. Alexandrescu, R. Birjega, I. Voicu, C. Fleaca, E. Popovici, **I. Soare**, L. Gavrilă-Florescu, O. Cretu, V. Ciupina, E. Figgemeier, Effects of some synthesis parameters on the microstructure of titania nanoparticles obtained by laser pyrolysis, E-MRS IUMRS ICEM 2006 Spring Meeting May 29 - June 2, 2006
10. R. Alexandrescu, I. Morjan, F. Dumitrache, R. Birjega, C. Jaeger, H. Mutschke, **I. Soare**, L. Gavrilă-Florescu, V. Ciupina, Structural characteristics of Fe<sub>3</sub>C-based nanomaterials prepared by laser pyrolysis from different gas phase precursors, E-MRS IUMRS ICEM 2006 Spring Meeting May 29 - June 2, 2006
11. I. Morjan, **I. Soare**, R-E. Morjan, G. Prodan, L. Gavrilă-Florescu, I. Sandu, E. Popovici, F. Dumitrache, I. Voicu, M. Scarisoreanu, R. Alexandrescu, Carbon nanotubes growth from C<sub>2</sub>H<sub>2</sub> and C<sub>2</sub>H<sub>4</sub>/NH<sub>3</sub> by catalytic LCVD on supported iron-carbon nanocomposites, E-MRS IUMRS ICEM 2006 Spring Meeting May 29 - June 2, 2006
12. I. Sandu, I. Morjan, I. Voicu, R. Alexandrescu, F. Dumitrache, L. Gavrilă-Florescu, **I. Soare**, E. Popovici, O. Cretu, Three Steps Up To Nanorobots, E-MRS IUMRS ICEM 2006 Spring Meeting May 29 - June 2, 2006
13. I. Morjan, V. Ciupina, **I. Soare**, R-E. Morjan, L. Gavrilă-Florescu, R. Alexandrescu, G. Prodan, C. Fleaca, I. Sandu, E. Popovici, I. Voicu, F. Dumitrache, “LCVD of Carbon Nanotubes Grown on Pre-Deposited Catalytic Substrates”, 6th International Conference of the Balkan Physical Union, 22 - 26 August, 2006 (Istanbul, Turkey)

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15. I. Morjan, R. Alexandrescu, D. Dumitrache, I. Voicu, L. Gavrilă, **I. Soare**, L. Vekas, D. Bica, G. Filotti, M. Morariu, V. Kuncser, « Iron-based nanoparticles prepared by laser pyrolysis and their application as magnetic nanofluids », International Conference ALT'06 (Advanced Laser Technologies), September 8-12, Brasov, Romania, 2006
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23. I. Morjan, M. Scarisoreanu, R. Alexandrescu, **I. Soare**, C. Fleacă, L. Gavrilă-Florescu, C. Luculescu, W. Kylberg, E. Figgemeier, G. Prodan, E. Vasile, Recent developments of photocatalytic TiO<sub>2</sub> and Fe-doped TiO<sub>2</sub> nanopowders prepared by laser pyrolysis, International Conference on Molecular/Nano-Photochemistry, Photocatalysis and Solar Energy Conversion Solar '08 Cairo, Egypt, February 24 –28, 2008
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