



Europass Curriculum Vitae

Personal information

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E-mail	nicoleta.gheorghe@infim.ro	
Nationality	Romanian	
Date of birth	23.03.1985	
Gender	Female	

Work experience

Dates	07.2011-present
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Thin layer growth by Molecular Beam Epitaxy, characterization of surfaces by means of specific techniques: Auger and XPS spectroscopy, Reflection High Energy Electron Diffraction-RHEED, Low Energy Electron Diffraction-LEED, Scanning Tunneling Microscopy-STM; Analysis by EXAFS and XANES spectroscopy;
Name and address of employer	National Institute of Materials Physics,105 bis Atomistilor Street, 077125, Magurele, Romania
Type of business or sector	National Institute
Dates	01.2009 – 06.2011
Occupation or position held	Assistant researcher
Main activities and responsibilities	Thin layer growth by Molecular Beam Epitaxy, characterization of surfaces by means of specific techniques: Auger and XPS spectroscopy, Reflection High Energy Electron Diffraction-RHEED, Low Energy Electron Diffraction-LEED, Scanning Tunneling Microscopy-STM; Analysis by EXAFS and XANES spectroscopy;
Name and address of employer	National Institute of Materials Physics,105 bis Atomistilor Street, 077125, Magurele, Romania
Type of business or sector	National Institute
Dates	04.2006 – 12. 2008
Occupation or position held	Technician (part-time)
Main activities and responsibilities	Working with equipment of thermal analysis TG-DTA and DSC; Working with FTIR; Data processing; Optical microscopy for monitoring phase transitions in liquid crystals; Documentation in liquid crystals, IR spectroscopy and thermal analysis;
Name and address of employer	National Institute of Materials Physics,105 bis Atomistilor Street, 077125, Magurele, Romania
Type of business or sector	National Institute

Education and training

Dates	2010 - present
Title of qualification awarded	PhD student
Principal subjects/occupational skills covered	Thesis Title: "Study of oxidic systems and/or mezoporous semiconductors. General characterization and specific features determined by electron spectroscopy and x-ray absorption spectroscopy"

Name and type of organisation providing education and training	Romanian Academy, Romania																																							
Dates	2008 - 2010																																							
Title of qualification awarded	Master in Physics																																							
Principal subjects/occupational skills covered	Optical, spectroscopy, plasma and lasers																																							
Name and type of organisation providing education and training	Bucharest University, Romania																																							
Dates	2003 – 2008																																							
Title of qualification awarded	Bachelor in Physics																																							
Principal subjects/occupational skills covered	Physics																																							
Name and type of organisation providing education and training	Bucharest University, Romania																																							
Mother tongue(s)	Romanian																																							
Other language(s)																																								
Self-assessment																																								
European level (*)																																								
English	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="4">Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th colspan="4"></th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> </tr> <tr> <td>A2</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> </tr> </tbody> </table>								Understanding		Speaking		Writing				Listening	Reading	Spoken interaction	Spoken production					C1	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	A2	Basic user						
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French																																								
Social skills and competences	Team spirit.																																							
Computer skills and competences	Competent with most Microsoft Office programmes and IGOR program																																							
Driving licence	category B, from 2007																																							
Annexes	Publication list																																							

Publication list

1. Involvement of cyan and ester groups in surface interactions of aerosil - cyanophenyl alkylbenzoate systems with high silica density. FTIR and TGDTA investigations, L. Frunza, S. Frunza, I. Zgura, T. Beica, N. Gheorghe, P. Ganea, D. Stoenescu, A. Dinescu, A. Schonhals, **Spectrochim. Acta, Part A** **75**, 1228-1235, (2010).
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3. Atomic structure and magnetic properties of cobalt doped ZnO thin films prepared by the sol-gel method, J. Neamtu, G. Georgescu, T. Malaeru, N.G. Gheorghe, R. M. Costescu, I. Jitaru, J. Ferre, D. Macovei, C.M. Teodorescu, **Digest J. Nanomater. Biostr.** **5**, 873-885 (2010).
4. Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids, F. Neatu, L. Protesescu, M. Florea, V.I. Parvulescu, C.M. Teodorescu, N. Apostol, P.Y. Toullec, V. Michelet, **Green Chemistry** **12**, 2145-1219 (2010).
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6. Nanostructured gold layers. III. Functionalization of gold layers obliquely deposited onto polystyrene substrate, I. Zgura, T. Beica, S. Frunza, L. Frunza, C. Cotarlan-Simioniu, F. Ungureanu, N. Gheorghe, O. Rasoga, T. Velula, C. Zaharia, **J. Optoelectron. Adv. Mater.** **12** (8), 1729-1738 (2011).
7. Substrate-target distance dependence of structural and optical properties in case of Pb(Zr,Ti)O₃ films obtained by Pulsed Laser Deposition, A.C. Galca, V. Stancu, M.A. Husanu, C. Dragoi, N.G. Gheorghe, L. Trupina, M. Enculescu, E. Vasile, **Appl. Surf. Sci.** **257**, 5938-5943 (2011)
8. Enhanced contamination of Si(001) when analyzed by AES with respect to XPS, N.G. Gheorghe, G.A. Lungu, R.M. Costescu, D.G. Popescu, C.M. Teodorescu, **Optoelectr. Adv. Mater. - Rapid Commun.** **6** (2), 508-513 (2011).
9. Significantly different contamination of atomically clean Si(001) when investigated by XPS and AES, N.G. Gheorghe, G.A. Lungu, R.M. Costescu, C.M. Teodorescu, **Phys. Stat. Solidi B** **248**, 1919-1924 (2011).
10. Spectroscopic analysis of the interstitial anions in some layered double hydroxide materials, L. Frunza, N. Gheorghe, F. Iova, P. Ganea, F. Neatu, V.I. Parvulescu, **Revista de Chimie** **62**, 766-772 (2011).
11. X-ray Absorption Fine Structure Investigations on Heat-Treated Cr-doped Titania Thin Films, D. Mardare, V. Nica, V. Pohoata, D. Macovei, N.G. Gheorghe, D. Luca, C.M. Teodorescu, **Thin Solid Films**, 1348-1352 (2011).
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13. Interface characterization and atomic intermixing processes in Be/W bilayers deposited on Si(001) substrates with Fe buffer layers, V. Kuncser, P. Palade, G. Schintele, S.G. Sandu, L. Trupina, G.A. Lungu, N.G. Gheorghe, C.M. Teodorescu, C. Porosnicu, I. Jepu, C.P. Lungu, G. Filoti, **J. Alloys Compds.** **512**, 199-206 (2012).
14. X-ray photoelectron spectroscopy of pulsed laser deposited Pb(Zr,Ti)O₃, C. Dragoi, N.G. Gheorghe, G.A. Lungu, L. Trupina, A.G. Ibanescu, C.M. Teodorescu, **Phys. Stat. Solidi A** **209**(6), p. 1049-1052 (2012).
15. Matrix assisted pulsed laser evaporation of Mn₁₂(Propionate) thin films, M. Pervolaraki, F. Sima, G. Socol, C.M. Teodorescu, N.G. Gheorghe, M. Socol, I.N. Mihailescu, E.E. Moushi, A.J. Tasiopoulos, G.I. Athanasopoulos, Z. Viskadourakis, J. Giapintzakis, **Appl. Surf. Sci.** **258**(23), p. 9471-9474 (2012).
16. Atomic structure and magnetism of PLD deposited TiO₂:Fe, R.M. Costescu, G.A. Lungu, G. Socol, N.G. Gheorghe, D. Macovei, C.C. Negrila, C. Logofatu, M.A. Husanu, D.G. Popescu, C.A. Tache, C.M. Teodorescu, **Dig. J. Nanomater. Biostr.** **7** (1), 73-78 (2011).
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18. Reactivity, magnetism and local atomic structure in ferromagnetic Fe layers deposited on Si(001), N.G. Gheorghe, M.A. Husanu, G.A. Lungu, R.M. Costescu, D. Macovei, D.G. Popescu, C.M. Teodorescu, **Digest J. Nanomater. Biostruct.** **7** (1), 373-384 (2012).
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20. Epitaxial ferromagnetic samarium and samarium silicide synthesized on Si(001), R.M. Costescu, N.G. Gheorghe, M.A. Husanu, G.A. Lungu, D. Macovei, I. Pintilie, D.G. Popescu, C.M. Teodorescu, **J. Mater. Sci.** **47**, p. 7225-7234 (2012).
21. The Meyer-Neldel rule in Fe-doped TiO₂ amorphous films, D. Mardare, A. Yildiz, R. Apetrei, P. Rambu, D. Florea, N.G. Gheorghe, D. Macovei, C.M. Teodorescu, D. Luca, **J. Mater. Res.** **27**(17), p. 2271-2277 (2012).
22. Structure, reactivity, electronic configuration and magnetism of samarium atomic layers deposited on Si(001) by molecular beam epitaxy, N.G. Gheorghe, G.A. Lungu, M.A. Husanu, R.M. Costescu, D. Macovei, C.M. Teodorescu, **Appl. Surf. Sci.**, accepted (2012) DOI: 10.1016/j.apsusc.2012.08.016.
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25. Sn-Doped hydroxylated MgF₂ catalysts for the fast and selective saccharification of cellulose to glucose, S. Wuttke, A. Negoi, N.G. Gheorghe, V. Kuncser, E. Kemnitz, V. Parvulescu, S.M. Coman, **ChemSusChem** **5**(9), p. 1708-1711 (2012).