

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Georgiana Bulai**
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ascalu.georgiana@yahoo.com
Nationality Romanian
Date of birth 20.08.1985
Gender Female
Marital status Married (name before marriage: Dascălu)

Work experience

Dates 01.01.2013 - present
Occupation or position held Research Assistant
Name and address of employer "Alexandru Ioan Cuza" University of Iasi, Atmosphere Optics, Spectroscopy and Lasers Laboratory, <http://spectroscopy.phys.uaic.ro/current.html>, 11 Carol I Blvd., RO-700506, Iasi, Romania
Type of business or sector Research activity in the field of thin films deposited by laser ablation and plasma plume investigation

Dates 01.02.2014 - present
Occupation or position held Research Assistant
Name and address of employer "Alexandru Ioan Cuza" University of Iasi, Atmosphere Optics, Spectroscopy and Lasers Laboratory, <http://spectroscopy.phys.uaic.ro/current.html>, 11 Carol I Blvd., RO-700506, Iasi, Romania
Type of business or sector Research activity in the field of Atmosphere Optics and laser-matter interaction

Dates 01.05.2014 – 31.05.2014
Occupation or position held Research Assistant
Name and address of employer Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d'Ascq, France
Type of business or sector Research stage on PLD deposition of chalcogenide thin films

Dates 01.07.2013 – 15.07.2013
Occupation or position held Research Assistant
Name and address of employer Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d'Ascq, France
Type of business or sector Research stage on PLD deposition of chalcogenide thin films

Dates 01.03.2012 – 31.03.2012
Occupation or position held Research Assistant
Name and address of employer University of Geneva, Condensed Matter Physics Department, Ernest-Ansermet 24, CH-1211 Genève 4, Switzerland
Type of business or sector Research activity related to the characterization of ferromagnetic thin films obtained by PLD, Analyzing techniques: AFM, PFM, MFM, XRD

Dates 15.11.2010 – 15.07.2011
 Occupation or position held Research Assistant
 Name and address of employer Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d'Ascq, France
 Type of business or sector Research activity related to the deposition and characterization of ferromagnetic thin films by PLD, Analyzing techniques: Profilometry, Raman spectroscopy, ToF-SIMS

Education and training

Dates 01.10.2009 – 30.09.2012
 Title of qualification awarded PhD in Physics
 Principal subjects/occupational skills covered Study of cobalt ferrite thin films by pulsed laser deposition
 Name and type of organisation providing education and training "Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., RO-700506, Iasi, Romania

Dates 01.10.2004 – 01.07.2009
 Title of qualification awarded Bachelor Degree in Technological Physics
 Principal subjects/occupational skills covered Experimental methods of determining the Curie Temperature of ferromagnetic materials.
 Name and type of organisation providing education and training "Alexandru Ioan Cuza" University of Iasi, 11 Carol I Blvd., RO-700506, Iasi, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

English

Self-assessment
European level ()*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

French

Self-assessment
European level ()*

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

Professional skills and competences

Communication skills Poster and oral presentations to nationals and international conferences
 Participation to research exchange stages

Organizational skills and competences Member in the Conference Secretariat of "Physics and Modern Education Technologies" National Conference, May 2010, Iasi, Romania
 Member in 4 national scientific grants

Scientific research activity	Author and co-author in 6 articles in ISI-quoted journals, 1 book chapter, 1 article in non-ISI journals, 3 invited talks, 8 oral presentations, 31 poster presentations at national and international conferences Member in 4 national scientific grants, 1 Post-doc project and 1 project funded by "Alexandru Ioan Cuza" University Member of IEEE Magnetics Society since 2010, Member of Romanian Physical Society since 2009
Computer skills and competences	MS Office, Corel Draw, Adobe Photoshop, Origin, WinSpec, LabView

Additional information

Participations in funded projects:

1. "The study of polymer-laser radiation interactions in controlled atmosphere. Laser ablation nanostructured thin films layers. Applications.", PN-II-ID-PCE-2011-3-0650, 2011-2014;
2. "Fast laser imaging, detection and ranging of aerosol emissions in aircraft plumes", STAR-ROSA 98/129.11.2013, 2013-2016;
3. "Dinamica plasmei de ablatie laser: cercetari fundamentale si aplicatii ale depunerii de straturi subtiri prin tehnica PLD", UEFISCDI, 712/2013, 2013-2014;
4. "Extreme Light Induced Ablation Plasma Jet And Nanopatterning", E03/30.06.2014, CAPACITATI / RO-CERN, ELI-NP, 2014-2016.
5. "Synthesis and characterization of cobalt ferrite and polymers based on magnetic nanocomposites", project selected within "Alexandru Ioan Cuza" University competition, November 2014

:

ResearcherID: F-2224-2014

<http://www.researcherid.com/rid/F-2224-2014>

List of ISI indexed papers:

1. O. G. Pompilian, G. Dascalu, I. Mihaila, S. Gurlui, M. Olivier, P. Nemeec, V. Nazabal, N. Cimpoesu, C. Focsa, Pulsed laser deposition of rare-earth-doped gallium lanthanum sulphide chalcogenide glass thin films, Applied Physics A, 117 (2014) pp.: 197-205;
2. G. Dascalu, G. Pompilian, B. Chazallon, O. F. Caltun, S. Gurlui, C. Focsa, Femtosecond pulsed laser deposition of cobalt ferrite thin films, Applied Surface Science, 278 (2013) pp. 38-42;
3. G. Dascalu, T. Popescu, M. Feder, O. F. Caltun, Structural, electric and magnetic properties of $\text{CoFe}_{1.8}\text{RE}_{0.2}\text{O}_4$ (RE=Dy, Gd, La) bulk materials, Journal of Magnetism and Magnetic Materials, 333 (2013) pp. 69-74. (Cited 4 times);
4. G. Dascalu, G. Pompilian, B. Chazallon, V. Nica, O. F. Caltun, S. Gurlui, C. Focsa, Rare earth doped cobalt ferrite thin films deposited by PLD, Applied Physics A: Materials Science and Processing, 110 (4) (2013) pp. 915-922. (Cited 1 time);
5. G. Dascalu, D. Dumeata, O. F. Caltun, Magnetic measurements of RE-doped cobalt ferrite thin films, IEEE Transactions on Magnetics, 49 (1) (2013) pp. 46-49. (Cited 1 time);
6. G. Dascalu, O. G. Caltun, CoFe_2O_4 thin films deposited by PLD with in situ heating and post annealing, Journal of Optoelectronics and Advanced Materials, 13 (9) (2011) pp. 1145-1148.

Other papers:

1. G. Dascalu, I. Mihaila, O. F. Caltun, G. Popa, „The influence of the thermal treatment on the microstructures of thin cobaltferrite films”, Journal of Advanced Research in Physics 1(1) (2010) 011002;
2. Coauthor at book chapter IV, "Filme subtiri. Obținerea filmelor subtiri de ferită de cobalt", B. Negulescu, G. Dascalu, O.F. Caltun din "Ferite de cobalt magnetostrictive", coordinator Ovidiu Florin Caltun, Ed. Alexandru Ioan Cuza Iasi, 2009. (pp.: 131-173)

Conference participations:

Invited talks:

1. G. Dascalu, L. Diamandescu, M. Feder, A. Pui, I. Dumitru, S. Gurlui, O.F. Caltun, Study of cobalt ferrite bulk materials doped with rare earth ions, IEEE ROMSC 2014, IASI, ROMANIA;
2. O. G. Pompilian, G. Dascalu, S. Gurlui, C. Focsa, Processing and characterization of advanced materials by laser ablation techniques, 9th

International Conference on Physics of Advanced Materials, ICPAM 2012, Iasi, Romania;

- O. G. Pompilian, G. Dascalu, S. Gurlui, C. Focsa, Laser-induced plasma: fundamentals and applications, Physics Conference TIM-12, 2012, Timisoara, Romania;

Oral presentations:

- G. DASCALU, S. GURLUI, P. NEMEC, O. POMPILIAN, C. FOCSA, Nano-, Pico- and Femto-second Laser Ablation of Pure and Rare-earth-doped Gallium Lanthanum Sulphide: A Comparative Study by Space- and Time-resolved Optical Emission Spectroscopy, International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), 2014, Beijing, China;
- G. Dascalu, O. G. Pompilian, I. Mihaila, S. Gurlui, P. Hawlova, P. Nemece, V. Nazabal, C. Focsa, Pure and Rare-Earth Doped Gallium Lanthanum Sulphide Amorphous Thin Films Grown by Pulsed Laser Deposition in Various Temporal Regimes, European Materials Research Society (E-MRS) Spring Meeting, E-MRS 2014, Lille, France;
- R. Boidin, S. Gurlui, G. Dascalu, P. Nemece, V. Nazabal, C. Focsa, Pulsed Laser Deposition of Ge-Sb-Se glasses: A plasma plume dynamics study, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, France;
- G. Dascalu, G. Pompilian, B. Chazallon, O. F. Caltun, S. Gurlui, C. Focsa, Influence of rare earth substitution on structural and magnetic properties of CoFe_2O_4 thin films deposited by PLD, European Materials Research Society Spring Meeting, E-MRS 2012, Strasbourg, France;
- G. Dascalu, N. Pop, L. Hrib, O. F. Caltun, Magnetostrictive and magnetoelectric materials for sensors, Physics Conference TIM-11, 2011, Timisoara, Romania;
- L. M. Hrib, O. Pompilian, G. Dascalu, O. Caltun, S. Gurlui, C. Focsa, Pulsed Laser Deposition of $[\text{CoFe}_2\text{O}_4]_x[\text{BaTiO}_3]_{1-x}$ Thin Films: Structural and Plasma Plume Investigations, Joint MmdE- IEEE ROMSC 2010, Iasi, Romania;
- L. M. Hrib, G. Dascalu, I. Dumitru, M. Feder, L. Diamandescu, O. Caltun, Cobalt ferrite and barium titanate composites, IEEE ROMSC 2009, Iasi, Romania;
- G. Dascalu, S. Belosetchi, L. M. Boutiuc Hrib, I. Dumitru, O.F. Caltun, Magnetic and electric properties of composites based on Mn doped cobalt ferrites and barium titanate, Physics and Modern Education Technologies, FTEM 2009, Iasi, Romania.
- G. Dascalu, G. Rusu, I. Mihaila, O. F. Caltun, G. Popa, The influence of the thermal treatment on the microstructure of thin cobalt ferrite films, International Conference on Physics of Advanced Materials, ICPAM 2008, Iasi, Romania;

Poster presentation:

- G. Bulai, M. M. Cazacu, S. Gurlui, C. Focsa, Optical and spectral investigations of CoFe_2O_4 and $\text{CoFe}_{1.8}\text{RE}_{0.2}\text{O}_4$ (RE=Dy, Gd) plasma plume generated by laser ablation, TIM14 Physics Conference, TIM 14, Timisoara, Romania;
- G. Bulai, O. Caltun, S. Gurlui, M. Feder, B. Chazallon, C. Focsa, Structural and magnetic properties of rare earth doped cobalt ferrite thin films grown by pulsed laser deposition, International Conference on Thin Films, 2014, Dubrovnik, Croatia;
- Rémi Boidin, Jean-Marc Kfoury, Silviu Gurlui, Georgiana Dascalu, Petr Nemece, Virginie Nazabal, Cristian Focsa, Space- and Time-Resolved Optical Emission Spectroscopy of Plasma Plume Dynamics in Laser Ablation of Ge-Sb-Se Chalcogenide Glasses, International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), 2014, Beijing, China;
- G. Bulai, L. Diamandescu, I. Dumitru, S. Gurlui, M. Feder, O. F. Caltun, Magnetic and magnetostrictive behaviour of rare earth doped cobalt ferrite bulk materials, European Conference on Magnetic Sensors and Actuators, EMSA 2014, Vienna, Austria;
- G. Bulai, L. Diamandescu, I. Dumitru, S. Gurlui, M. Feder, O. F. Caltun, Synthesis and characterization of RE (RE=Dy, Gd, La, Sm, Yb, Er, Ho) doped cobalt ferrite bulk materials, Electroceramics Conference, 2014, Bucharest, Romania;
- G. Bulai, O. Pompilian, V. Nazabal, P. Nemece, B. Chazallon, S. Gurlui, C. Focsa, Influence of ablation conditions on the structural and optical properties of Ge-Sb-Te based thin films deposited by PLD, Electroceramics Conference, 2014, Bucharest, Romania;
- G. Dascalu, O. Pompilian, S. Gurlui, P. Nemece, C. Focsa, Space- and time-resolved optical emission spectroscopy of transient plasma generated by ns and fs laser ablation of Pr- and Er-doped GaLaS, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, France;
- G. Dascalu, O. Pompilian, N. Cimpoesu, V. Nazabal, P. Nemece, P. Hawlova, B. Chazallon, S. Gurlui, C. Focsa, Improved surface structure and chemical composition of Ge-Sb-Te thin films grown by femtosecond and picosecond PLD, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, France;
- O. G. Pompilian, G. Dascalu, I. Mihaila, S. Gurlui, M. Olivier, P. Nemece, V. Nazabal, N. Cimpoesu, C. Focsa, Pulsed Laser Deposition of Gallium Lanthanum Sulphide Chalcogenide Thin Films, 12th International Conference on Laser Ablation, COLA 2013, Ischia, Italy;
- J. A. Gabor, G. Dascalu, D. G. Dimitriu, O. Pompilian, M. Agop, P. E. Nica, N. Cimpoesu, L. Stratulat, M. Osiac, C. Focsa, S. Gurlui, Laser Ablation Plasma (LAP): Techniques and Applications, Physics and Modern Education Technologies, FTEM 2013, Iasi, Romania;
- G. Dascalu, M. S. Stratulat, O. F. Caltun, C. Focsa, Magnetic and magnetostrictive measurements of RE doped cobalt ferrite bulks and thin films, European Magnetic Sensors and Actuators, EMSA 2012, Prague, Czech Republic;
- G. Dascalu, O. F. Caltun, G. S. N. Rao, B. P. Rao, K. H. Rao, Improved magnetostrictive properties of manganese substituted cobalt ferrite for automobile torque sensor applications, European Magnetic Sensors and Actuators, EMSA 2012, Prague, Czech Republic;
- T. Popescu, G. Dascalu, L. Diamandescu, M. Feder, O. F. Caltun, Occurrence of the REFeO_3 (RE=La, Gd, Dy) orthoferrite phases

and their influence on the magnetic and sintering properties of the $\text{CoRe}_{0.2}\text{Fe}_{1.8}\text{O}_4$ system, The 8th General Conference of Balkan Physical Union, BPU 2012, Constanta, Romania;

14. G. Dascalu, V. Nica, P. Postolache, O. F. Caltun, Rare earth addition in cobalt ferrite thin films, Joint Conference COST MPO904 Action & the 9th Edition IEEE-ROMSC 2012, Iasi, Romania
15. G. Dascalu, G. Pompilian, O. F. Caltun, B. Chazallon, C. Focsa, Rare earth doped cobalt ferrite thin films deposited by PLD, Conference On Laser Ablation, COLA 2011, Cancun, Mexico;
16. G. Dascalu, V. Nica, P. Postolache, O. F. Caltun, Influence of rare earth doping ions on the structural and magnetic properties of cobalt ferrite, IEEE ROMSC 2011, Iasi, Romania;
17. G. Dascalu, G. Pompilian, S. Gurlui, O. F. Caltun, C. Focsa, Structural and magnetic properties of rare earth doped cobalt ferrite thin films, Soft Magnetic Materials Conference, SMM 2011, Kos, Greece;
18. G. Dascalu, G. Pompilian, O. F. Caltun, S. Gurlui, C. Focsa, Pulsed Laser Deposition of Rare Earth Doped Cobalt Ferrite Thin Films, International Balkan Workshop on Applied Physics, IBWAP 2011, Constanta, Romania;
19. G. Dascalu, C. Baban, O.F. Caltun, Thin films of cobalt ferrite deposited by spin coating technique, Physics and Modern Education Technologies, FTEM 2010, Iasi, Romania;
20. S. Belosetchi, G. Dascalu, L. Boutiuc Hrib, I. Dumitru, O.F. Caltun, The electric properties of barium titanate - cobalt ferrite composites, Physics and Modern Education Technologies, FTEM 2010, Iasi, Romania;
21. G. Dascalu, L. Boutiuc, O. F. Caltun, The influence of the deposition parameters and post annealing conditions on the anisotropy of cobalt ferrite thin films, Physics National Conference, CNF 2010, Iasi, Romania;
22. G. Dascalu, L. Ursu, V. Melnig, O. F. Caltun, Nanostructured cobalt ferrite thin films deposited by spin coating technique, Physics National Conference, CNF 2010, Iasi, Romania;
23. G. Dascalu, I. Mihaila, G. Popa, O. F. Caltun, The influence of the microstructure on the magnetic properties of cobalt ferrite thin films, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;
24. G. Dascalu, L. Ursu, V. Melnig, O. F. Caltun, Cobalt ferrite thin films deposited by spin coating technique, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;
25. L. M. Hrib, O. Pompilian, G. Dascalu, O. Caltun, S. Gurlui, C. Focsa, Pulsed laser deposition of $[\text{CoFe}_2\text{O}_4]_x\text{-}[\text{BaTiO}_3]_{1-x}$ thin films: structural and plasma plume investigations, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;
26. G. Dascalu, C. Ursu, C. Focsa, O. Caltun, G. Popa, „Magnetic properties of cobalt ferrite thin films deposited by PLD, Conference on Plasma Physics and Applications, CPPA 2010, Iasi, Romania.
27. G. Dascalu, O. F. Caltun, Structural and magnetic properties of cobalt ferrite thin films deposited by spin coating technique, Joint MmdE- IEEE ROMSC 2010, Iasi, Romania;
28. G. Dascalu, I. Mihaila, O. F. Caltun, G. Popa, Cobalt ferrite thin films deposited by PLD with in situ heating and post-annealing, Joint MmdE- IEEE ROMSC 2010, Iasi, Romania;
29. L. M. Hrib, G. Dascalu, N .M. Palamaru, A. R. Iordan, T. Slatineanu, I. Dumitru, M. Feder, O. F. Caltun, Magnetostriction coefficients of manganese substituted cobalt ferrite obtained by autocombustion methods, Workshop on Fundamental and Applied Research in Physics, FARPhys 2009, Iasi, Romania;
30. G. Dascalu, L. Boutiuc Hrib, V. Gafton, O. F. Caltun, The influence of dopants on the Curie temperature of Co ferrite, Physics and Modern Education Technologies, FTEM 2009, Iasi, Romania;
31. G. Dascalu, S. Belosetchi, L. M. Hrib, I. Dumitru, O. F. Caltun, Magnetic and electric properties of composites based on cobalt ferrite and barium titanate, International Balkan Workshop on Applied Physics, IBWAP 2009, Constanta, Romania;
32. G. Dascalu, G. Rusu, I. Mihaila, O. F. Caltun, G. Popa, Cobalt ferrite thin films by PLD, International Balkan Workshop on Applied Physics (IBWAP), 2008, Constanta, Romania;
33. I. Mihaila, C. Ursu, G. Dascalu, G. Rusu, O. F. Caltun, G. Popa, The influence of the deposition parameters on the microstructure of cobalt ferrite thin films, IEEE ROMSC 2008, Iasi, Romania;
34. S. Belosetchi, G. Dascalu, L. Boutiuc Hrib, O. Caltun, I. Dumitru, Barium titanate - cobalt ferrite composites, Workshop on Fundamental and Applied Research in Physics, FARPhys 2008, Iasi, Romania;

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