Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Traian PETRISOR
Official address	Technical University of Cluj-Napoca, Physics and Chemistry Department Str. Memorandumului No. 28 RO-400114 Cluj-Napoca, ROMANIA
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Nationality	Romanian
Date of birth	02.02.1982
Gender	Male

Work experience

Dates	2003-2011
Occupation or position held	Assistant Researcher, Researcher
Main activities and responsibilities	Thin films and multilayers deposition by means of e-beam evaporation and sputtering; Structural and morphological characterization of thin films by X-Ray diffraction and Atomic Force Microscopy; Magnetic and electronic transport characterization of thin films and multilayers
Name and address of employer	Technical University of Cluj-Napoca, Physics and Chemistry Department Str. Memorandumului No. 28 RO-400114 Cluj-Napoca, ROMANIA
Type of business or sector	Higher Education Institution

Education and training

Date	2011
Title of qualification awarded	Ph.D. in Physics and Materials Science
Principal subjects/occupational skills covered	Doctoral thesis title “Modulated magnetic structures for flux pinning in high temperature superconductors”, deposition, structural, magnetic and electronic transport characterization of magnetic and superconducting thin films
Name and type of organisation providing education and training	“Henri Poincare” University, Nancy, France and Technical University of Cluj-Napoca, Romania
Dates	2007
Title of qualification awarded	M.Sc. in Physics
Principal subjects/occupational skills covered	Solid State Physics
Name and type of organisation providing education and training	“ Babes-Bolyai” University, Cluj-Napoca, Romania
Dates	2006
Title of qualification awarded	M.Sc. in Physics

Principal subjects/occupational skills covered	Physics of Materials and Nanostructures, Dissertation title:"Numerical investigation of the size effects on the exchange bias in nanostructures"
Name and type of organisation providing education and training	"Joseph Fourier, University, Grenoble, France
Dates	2005
Title of qualification awarded	B. Sc. in Physics
Principal subjects/occupational skills covered	Solid State Physics
Name and type of organisation providing education and training	" Babes-Bolyai" University, Cluj-Napoca, Romania
Dates	2004-2010
Research internships and training courses:	ENEA, Frascati, Rome, Italy (research internship- PLD deposition, low temperature magnetic and transport measurements), CEA-Spintec, Grenoble, France (research internship – high frequency magnetization dynamics), LPM, University "Henri Poincaré" Nancy, France (research internship – MTJ deposition and characterization); Bruker AXS, Karlsruhe, Germany (High Resolution and Powder X-ray diffraction training courses)
Mother tongue(s)	Romanian

European level (*)	Understanding				Speaking				Writing	
Language	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
French	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user

Computer skills and competences	LabView
Annexes	List of relevant publications for the project

LIST OF RELEVANT PUBLICATIONS

1. M.S. Gabor, T. Petrisor Jr., C. Tiusan, M. Hehn, T. Petrisor, *Magnetic and structural anisotropies of Co2FeAl Heusler alloy epitaxial thin films,* Phys. Rev. B 84, 134413 (2011)
2. T. Petrisor Jr., M.S. Gabor, A. Boulle, C. Bellouard, C. Tiusan, O. Pana, T. Petrisor, *Oxygen incorporation effects in annealed epitaxial* $La_{1-x}Sr_xMnO_3$ *thin films*, J. Appl. Phys. 109, 123913 (2011);
3. G. Ortiz, M. S. Gabor, T. Petrisor, Jr., F. Boust, F. Issac, C. Tiusan, M. Hehn, and J. F. Bobo, *Static and dynamic magnetic properties of epitaxial Co2FeAl Heusler alloy thin films*, J. Appl. Phys. 109, 07D324 (2011)*;*
4. Nasui, M., Petrisor Jr., T., Mos, R.B., Gabor, M.S., Ristoiu, T., Rufoloni, A., Ciontea, L., Petrisor, T., *Precursor chemistry for the solution deposition of epitaxial* $La_{0.66}Sr_{0.33}MnO_3$ *(LSMO) thin films,* Thin Solid Films 518 (16), pp. 4753-4756, 2010;
5. Mos, R.B., Gabor, M.S., Nasui, M., Petrisor Jr., T., Badea, C., Rufoloni, A., Ciontea, L., Petrisor, T., *Synthesis of* $BaZrO_3$ *thin films by chemical solution deposition,* Thin Solid Films 518 (16), pp. 4714-4717, 2010;
6. Ciontea, L., Nasui, M., Petrisor Jr., T., Mos, R.B., Gabor, M.S., Varga, R.A., Petrisor, T., *Synthesis, crystal structure and thermal decomposition of* $[La_2(CH_3CH_2COO)_6 \cdot (H_2O)_3] \cdot 3.5H_2O$ *precursor for high-k* La_2O_3 *thin films deposition*, Materials Research Bulletin 45 (9), pp. 1203-1209, 010;
7. Canpean, V., Astilean, S., Petrisor Jr., T., Gabor, M., Ciascai, I., *Convective assembly of two-dimensional nanosphere lithographic masks,* Materials Letters 63 (21), pp. 1834-1836, 2009;
8. Petrisor Jr., T., Gabor, M.S., Tiusan, C.V., *Exchange coupling and giant magnetoresistance in magnetic multilayered structures,* Journal of Optoelectronics and Advanced Materials 10 (12), pp. 3332-3335, 2008;
9. Ristoiu, T., Ciontea, L., Suciu, R.-C., Petrisor Jr., T., Gabor, M.S., Thalmayer, Gy., Petrisor, T., *Thermal decomposition study by DTA-TG-MS of cerium [III] acetylacetonate used as ceria thin film precursor*, Journal of Optoelectronics and Advanced Materials 10 (9), pp. 2223-2227 , 2008;
10. Farcau, C., Canpean, V., Gabor, M., Petrisor Jr., T., Astilean, S., *Periodically nanostructured noble-metal thin films with enhanced optical properties,* Journal of Optoelectronics and Advanced Materials 10 (4), pp. 809-812, 2008;

11. Ciontea, L., Angrisani, A., Celentano, G., Petrisor Jr., T., Rufoloni, A., Vannozzi, A., Augieri, A., Galuzzi, V., Mancini, A., Petrisor, T., *Metal propionate synthesis of epitaxial $YBa_2Cu_3O_{7-x}$ films* , Journal of Physics: Conference Series 97 (1), art. no. 012302, 2008;
12. Gabor, M.S., Petrisor Jr., T., Tiusan, C.V. , *Exchange coupling in Co/Ru/Co and Fe/MgO/Fe multilayered structures,* AIP Conference Proceedings 899, pp. 627, 2007;