



Curriculum vitae Europass

Informații personale

Nume / Prenume POSTOLACHE PETRONEL

Telefon(oane) 0232 201175

Fax(uri) 0232 201205

E-mail(uri) petronel.postolache@uaic.ro

Naționalitate(-tăți) Roman

Data nașterii 07.03.1977

Sex M

Locul de muncă vizat / Domeniul ocupațional

Cercetator post-doc (proiect POSDRU/89/1.5/S/49944 Dezvoltarea capacității de inovare și creșterea impactului cercetării prin programe post-doctorale)

Experiența profesională

Perioada 2009-prezent

Funcția sau postul ocupat Lector

Activități și responsabilități principale Fizica si tehnologia materialelor magnetice
Introducere in Modelarea proceselor fizice
Limbaje de programare
Baze de date

Numele și adresa angajatorului Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizica

Tipul activității sau sectorul de activitate Educație

Se va repeta pentru fiecare perioada in care au avut posturi/pozitii diferite

Perioada 2004-2009

Funcția sau postul ocupat Asistent

Activități și responsabilități principale Electricitate si Magnetism
Limbaje de programare
Sisteme de operare
Sisteme de achizitie si prelucrare a datelor
Java
Baze de date

Numele și adresa angajatorului Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizica

Tipul activității sau sectorul de activitate Educație

Se va repeta pentru fiecare perioada in care au avut posturi/pozitii diferite

Educație și formare (incepand cu titlul cel mai recent)

Perioada 2001-2007

Calificarea / diploma obținută Doctor în fizică

Disciplinele principale studiate / competențe profesionale dobândite Magnetism. Modelare și Simulare

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizica

Perioada 1999-2001

Calificarea / diploma obținută | Diploma de Master
 Disciplinele principale studiate / competențe profesionale dobândite | Sectia: Proprietati Electrice si Magnetice ale structurilor fine si Ultrafine
 Numele și tipul instituției de învățământ / furnizorului de formare | Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizica
 Perioada | 1995-1999
 Calificarea / diploma obținută | Licentiat in Fizica / Diploma de Licență
 Disciplinele principale studiate / competențe profesionale dobândite | Fizică
 Numele și tipul instituției de învățământ / furnizorului de formare | Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizica

Aptitudini și competențe personale

Limba(i) maternă(e) | română

Limba(i) străină(e) cunoscută(e) | Engleză

Autoevaluare
 Nivel european (*)

Limba engleză

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă
C2	C2	C1	C1	C1

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Competențe și abilități sociale și de lucru în echipă | Membru al centrului de excelență CARPATH
 Membru al platformei interdisciplinare AMON
 Membru IEEE

Competențe și aptitudini organizatorice | Membru al comitetului de organizare al conferinței IEEE ROMSC 2005-2010
 Membru al comitetului de organizare al concursului PHI 2003-2010

Competențe și aptitudini tehnice | Măsurători magnetice - VSM/AGM.
 Metode de caracterizare magnetică bazate pe FORC

Competențe și aptitudini de utilizare a calculatorului | Competențe în programare C++, C#, .Net
 Calcul Paralel
 Maple, Origin, Comsol
 Microsoft Office
 Administrare rețele Unix/Windows

Informații suplimentare

Anexe | Activitate științifică

Activitate științifică

1. Articole științifice publicate *in extenso* în reviste cotate ISI Web of Science cu factor de impact

20 Lucrări publicate în reviste cotate ISI Web of Science cu factor de impact (2 regulare, 18 proceedings)

L1. Ianculescu, A; Prihor, F; **Postolache, P**; Mitoseriu, L; Dragan, N; Crisan, D
 Preparation, Structural and Magnetic Properties of Mn-Doped La_{0.1}Bi_{0.9}FeO₃ Ceramics
 FERROELECTRICS, V. 391, pp. 67-75
 Factor impact = 0.562

L2. Prihor, F; Ianculescu, A; Mitoseriu, L; **Postolache, P**; Curecheriu, L; Dragan, N; Crisan, D
Functional Properties of the (1-x)BiFeO₃-xBaTiO₃ Solid Solutions
FERROELECTRICS, V. 391, pp. 76-82
Factor impact = 0.562

L3. Chiriac, H; Lupu, N; Stoleriu, L; **Postolache, P**; Stancu, A
Experimental and micromagnetic first-order reversal curves analysis in NdFeB-based bulk "exchange spring" - type permanent magnets
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, V. 316, pp. 177-180
Factor impact = 1.704

L4. Stancu, A; Stoleriu, L; **Postolache, P**; Tanasa, R
New Preisach model for structured particulate ferromagnetic media
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, V. 290, pp. 490-493
Factor impact = 0.985

L5. Ricinschi, D; Mitoseriu, L; Stancu, A; **Postolache, P**; Okuyama, M
Analysis of the switching characteristics of PZT films by first order reversal curve diagrams
INTEGRATED FERROELECTRICS, V. 67, pp. 103-115
Factor impact = 0.427

L 6. Stancu, A; **Postolache, P**; Stoleriu, L
Nonparametric identification algorithm of the Preisach distribution based on the First Order Reversal Curves (FORC) diagram
INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, V. 19, pp. 659-662
Factor impact = 0.348

L7. Fecioru-Morariu, M; Ricinschi, D; **Postolache, P**; Ciomaga, CE; Stancu, A; Mitoseriu, L
First order reversal curves and hysteresis loops of ferroelectric films described by phenomenological models
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, V. 6, pp. 1059-1063
Factor impact = 1.003

L8. Stancu, A; Stoleriu, L; **Postolache, P**; Cerchez, M
Preisach-type model for strongly interacting ferromagnetic particulate systems
IEEE TRANSACTIONS ON MAGNETICS, V. 40, pp. 2113-2115
Factor impact = 0.837

L9. Ricinschi, D; Stancu, A; Mitoseriu, L; **Postolache, P**; Okuyama, M
First order reversal curves diagrams applied for the ferroelectric systems
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, V. 6, pp. 623-627
Factor impact = 1.003

L10. Stancu, A; Ricinschi, D; Mitoseriu, L; **Postolache, P**; Okuyama, M
First-order reversal curves diagrams for the characterization of ferroelectric switching
APPLIED PHYSICS LETTERS, V. 83, pp. 3767-3769
Factor impact = 4.049 „Regular paper”

L11. Spinu, L; Stancu, A; Tung, LD; Fang, J; **Postolache, P**; O'Connor, CJ
Temperature dependent integral generalized Delta-M plots and interactions in cobalt nanoparticle systems
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, V. 266, pp. 194-199
Factor impact = 0.91

L12. **Postolache, P**; Cerchez, M; Stoleriu, L; Stancu, A
Experimental evaluation of the Preisach distribution for magnetic recording media
IEEE TRANSACTIONS ON MAGNETICS, V. 39, pp. 2531-2533
Factor impact = 1.006

L13. Cimpoesu, D; **Postolache, P**; Stancu, A

First order approximation for interactions in particulate single-domain particle systems

JOURNAL OF APPLIED PHYSICS, V. 93, pp. 6644-6646

Factor impact = 2.171

L14. Stancu, A; Pike, C; Stoleriu, L; **Postolache, P**; Cimpoesu, D

Micromagnetic and Preisach analysis of the First Order Reversal Curves (FORC) diagram

JOURNAL OF APPLIED PHYSICS, V. 93, pp. 6620-6622

Factor impact = 2.171

L15. Spinu, L; Tung, LD; Fang, J; **Postolache, P**; Diaconu, M; Stancu, A

Temperature dependent integral Generalized DeltaM curves

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, V. 4, pp. 311-314

Factor impact = 0.446

L16. Spinu, L; Stancu, A; Tung, LD; Fang, J; **Postolache, P**; Srikanth, H; O'Connor, CJ

Relaxation and interaction effects on transverse susceptibility measurements of nanoparticle systems

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, V. 242, pp. 604-607

Factor impact = 1.046

L18. Stancu, A; Stoleriu, L; Cerchez, M; **Postolache, P**; Cimpoiesu, D; Spinu, L

Standard problems for phenomenological Preisach-type models

PHYSICA B, V. 306, pp. 91-95

Factor impact = 0.73

L19. Bissell, PR; Ardeleanu, PC; **Postolache, P**; Cerchez, M; Stancu, A

Analysis of AC type magnetization processes in particulate recording media

IEEE TRANSACTIONS ON MAGNETICS, V. 37, pp. 1624-1626

Factor impact = 1.06

L20. L. P. Curecheriu; M. T. Buscaglia; V. Buscaglia; L. Mitoseriu; P. Postolache; A. Ianculescu; P. Nanni

Functional properties of BaTiO₃-Ni_{0.5}Zn_{0.5}Fe₂O₄ magnetoelectric ceramics prepared from powders with core-shell structure

Journal of Applied Physics, 107, 2010

Factor impact = 2.201

L21. L. STOLERIU; P. POSTOLACHE; P. ANDREI; A. STANCU

Rotational first-order reversal curves (rFORC) diagrams

Optoelectronics and Advanced Materials-Rapid Communications, Vol 4, ISS. 4, 2010

Factor impact = 0.224

2. Articole științifice publicate in extenso în reviste internaționale fără factor de impact

3. Capitole în cărți publicate în edituri internaționale

A. Stancu, L. Stoleriu, M. Cerchez, D. Cimpoesu, **P. Postolache**, R. Tanasa

The Preisach Model for Patterned Media

"Preisach memorial book", Akadémiai Kiadó, Budapest, pp. 143-153 (11 pagini), 2005

ISBN 9630582643

4. Articole științifice publicate in extenso în reviste naționale (CNCSIS B+ și BDI dacă este român)

5. Articole științifice publicate in extenso în volume ale conferințelor	
<p>L17. Cerchez, M; Bissell, PR; Chantrell, RW; Stancu, AL; Stoleriu, L; Postolache, P The use of generalized Delta M plots in the interaction field analysis. Conference of the NATO Advanced-Study-Institute on Magnetic Storage Systems Beyond 2000 JUN 25-JUL 07, 2000 RHODES, GREECE MAGNETIC STORAGE SYSTEMS BEYOND 2000, V. 41, pp. 247-250 Factor impact = 0</p>	
6. Contracte de cercetare științifică (director, coordonator, manager proiect)	
<p>Director Grant national TD - CNCSIS, „Studiul modelelor fenomenologice al histerezisului feromagnetic. Probleme standard”, nr 33.544 data 1.07.2003, 2003-2004, 6800RON</p>	
7. Brevete	

8. Citari (fara autocitari) in reviste ISI	
<p>50 citări (fără autocitări) în reviste ISI</p> <p>Citare: C1 - Lucrarea citata: L3 Cornejo, DR; Peixoto, TRF; Reboh, S; Fichtner, PFP; de Franco, VC; Villas-Boas, V; Missell, FP, First-order-reversal-curve analysis of Pr-Fe-B-based nanocomposites JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2010, V.322, pp.827-831</p> <p>Citare: C2 - Lucrarea citata: L3 Pop, V; Dorolti, E; Vaju, C; Gautron, E; Isnard, O; Le Breton, JM; Chicinas, I, STRUCTURAL AND MAGNETIC BEHAVIOUR OF SmCo4/alpha-Fe NANOCOMPOSITES OBTAINED BY MECHANICAL MILLING AND SUBSEQUENT ANNEALING ROMANIAN JOURNAL OF PHYSICS, 2010, V.55, pp.127-136</p> <p>Citare: C3 - Lucrarea citata: L3 Yin, JH; Zhang, HW; Hu, FX; Shen, BG; Pan, LQ, First order reversal curve diagrams of perpendicular magnetic anisotropy films JOURNAL OF APPLIED PHYSICS, 2009, V.106, pp.-</p> <p>Citare: C4 - Lucrarea citata: L3 Oliva, MI; Bercoff, PG; Bertorello, HR, First order reversal curves analysis of the temperature effect on magnetic interactions in barium ferrite with La-Co addition PHYSICA B-CONDENSED MATTER, 2009, V.404, pp.2742-2745</p> <p>Citare: C5 - Lucrarea citata: L3 Bertotti, G, Connection between microstructure and magnetic properties of soft magnetic materials JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2008, V.320, pp.2436-2442</p> <p>Citare: C6 - Lucrarea citata: L3 Peixoto, TRF; Cornejo, DR, Characterizing magnetic interactions in Ni nanowires by FORC analysis JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2008, V.320, pp.E279-E282</p>	

Citare: C7 - Lucrarea citata: L5

Kalinin, SV; Morozovska, AN; Chen, LQ; Rodriguez, BJ, Local polarization dynamics in ferroelectric materials
REPORTS ON PROGRESS IN PHYSICS, 2010, V.73, pp.-

Citare: C8 - Lucrarea citata: L5

Seal, K; Jesse, S; Nikiforov, MP; Kalinin, SV; Fujii, I; Bintachitt, P; Trolrier-McKinstry, S, Spatially Resolved Spectroscopic Mapping of Polarization Reversal in Polycrystalline Ferroelectric Films: Crossing the Resolution Barrier
PHYSICAL REVIEW LETTERS, 2009, V.103, pp.-

Citare: C9 - Lucrarea citata: L5

Kalinin, SV; Rodriguez, BJ; Jesse, S; Karapetian, E; Mirman, B; Eliseev, EA; Morozovska, AN, Nanoscale electromechanics of ferroelectric and biological systems: A new dimension in scanning probe microscopy
ANNUAL REVIEW OF MATERIALS RESEARCH, 2007, V.37, pp.189-238

Citare: C10 - Lucrarea citata: L5

Morozovska, AN; Svechnikov, SV; Eliseev, EA; Jesse, S; Rodriguez, BJ; Kalinin, SV, Piezoresponse force spectroscopy of ferroelectric-semiconductor materials
JOURNAL OF APPLIED PHYSICS, 2007, V.102, pp.-

Citare: C11 - Lucrarea citata: L7

Hamad, IA; Robb, D; Rikvold, PA, First-order Reversal Curve Analysis of Kinetic Monte Carlo Simulations of First- and Second-order Phase Transitions
COMPUTER SIMULATION STUDIES IN CONDENSED-MATTER PHYSICS XIX, 2009, V.123, pp.89-93

Citare: C12 - Lucrarea citata: L7

Hamad, IA; Robb, DT; Rikvold, PA, New cyclic voltammetry method for examining phase transitions: Simulated results
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, 2007, V.607, pp.61-68

Citare: C13 - Lucrarea citata: L8

Ye, LX; Lee, JM; Wu, TH, Direct measurement of Preisach diagram from microhysteresis loops at various delay times
IEEE TRANSACTIONS ON MAGNETICS, 2006, V.42, pp.289-291

Citare: C14 - Lucrarea citata: L8

Viddal, CA; Roshko, RM, Ageing and memory in the relaxation dynamics of collections of two-level subsystems
JOURNAL OF PHYSICS-CONDENSED MATTER, 2005, V.17, pp.3343-3354

Citare: C15 - Lucrarea citata: L9

Shur, VY; Baturin, IS; Romyantsev, EL, Analysis of the switching data in inhomogeneous ferroelectrics
FERROELECTRICS, 2007, V.349, pp.163-170

Citare: C16 - Lucrarea citata: L9

Smirnov, AV, Low-temperature magnetic properties of magnetite using first-order reversal curve analysis: Implications for the pseudo-single-domain state
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 2006, V.7, pp.-

Citare: C17 - Lucrarea citata: L10

Pomeroy, JM; White, TC; Grube, H; Read, JC; Davies, JE, Magnetoresistance based first-order reversal curve analysis of magnetic tunnel junctions
APPLIED PHYSICS LETTERS, 2009, V.95, pp.-

Citare: C18 - Lucrarea citata: L10

Ramirez, JG; Sharoni, A; Dubi, Y; Gomez, ME; Schuller, IK, First-order reversal curve measurements of the metal-insulator transition in VO₂: Signatures of persistent metallic domains
PHYSICAL REVIEW B, 2009, V.79, pp.-

Citare: C19 - Lucrarea citata: L10

Yin, JH; Hee, CH; Pan, LQ, First order reversal curves of laminated antiferromagnetically coupled media
ACTA PHYSICA SINICA, 2008, V.57, pp.7287-7291

Citare: C20 - Lucrarea citata: L10

Zhang, Y; Lupascu, DC, Nonlinearity and fatigue in ferroelectric lead zirconate titanate
JOURNAL OF APPLIED PHYSICS, 2006, V.100, pp.-

Citare: C21 - Lucrarea citata: L12

Harrison, RJ; Feinberg, JM, FORCinel: An improved algorithm for calculating first-order reversal curve distributions using locally weighted regression smoothing
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 2008, V.9, pp.-

Citare: C22 - Lucrarea citata: L12

Clime, L; Veres, T; Yelon, A, Identification of switching fields in magnetic nanostructures by partial first order reversal curves
JOURNAL OF APPLIED PHYSICS, 2007, V.102, pp.-

Citare: C23 - Lucrarea citata: L12

Beron, F; Clime, L; Ciureanu, M; Menard, D; Cochrane, RW; Yelon, A, Reversible and quasireversible information in first-order reversal curve diagrams
JOURNAL OF APPLIED PHYSICS, 2007, V.101, pp.-

Citare: C24 - Lucrarea citata: L12

Beron, F; Clime, L; Ciureanu, M; Menard, D; Cochrane, RW; Yelon, A, First-order reversal curves diagrams of ferromagnetic soft nanowire arrays
IEEE TRANSACTIONS ON MAGNETICS, 2006, V.42, pp.3060-3062

Citare: C25 - Lucrarea citata: L12

Gutowski, MW; Varga, LK; Kakay, A, Fast, Preisach-like characterization of hysteretic systems
PHYSICA B-CONDENSED MATTER, 2006, V.372, pp.76-78

Citare: C26 - Lucrarea citata: L12

Gutowski, MW, On the symmetry of a Preisach map
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, 2006, V.243, pp.343-346

Citare: C27 - Lucrarea citata: L12

Muxworthy, A; Williams, W, Magnetostatic interaction fields in first-order-reversal-curve diagrams
JOURNAL OF APPLIED PHYSICS, 2005, V.97, pp.-

Citare: C28 - Lucrarea citata: L14

Yin, JH; Zhang, HW; Hu, FX; Shen, BG; Pan, LQ, First order reversal curve diagrams of perpendicular magnetic anisotropy films
JOURNAL OF APPLIED PHYSICS, 2009, V.106, pp.-

Citare: C29 - Lucrarea citata: L14

Bazavan, D; Bazavan, R; Enculescu, I; Matei, E; Necula, C; Ion, L; Antohe, S, Magnetic properties of NiCu thin films obtained by electrodeposition
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, 2009, V.3, pp.484-488

Citare: C30 - Lucrarea citata: L14

Tugui, A; Necula, C; Panaiotu, C, PRELIMINARY ROCK MAGNETIC PROPERTIES OF QUATERNARY BASALTS FROM THE PERSANI MOUNTAINS (ROMANIA)
ROMANIAN REPORTS IN PHYSICS, 2009, V.61, pp.730-739

Citare: C31 - Lucrarea citata: L14

Yin, JH; Hee, CH; Pan, LQ, First order reversal curves of laminated antiferromagnetically coupled media
ACTA PHYSICA SINICA, 2008, V.57, pp.7287-7291

Citare: C32 - Lucrarea citata: L14

Qin, HF; Liu, QS; Pan, YX, The first-order reversal curve (FORC) diagram: Theory and case study
CHINESE JOURNAL OF GEOPHYSICS-CHINESE EDITION, 2008, V.51, pp.743-751

Citare: C33 - Lucrarea citata: L14

Clime, L; Le Droff, B; Zhao, S; Zhang, Z; Veres, T, Magnetic nanocarriers: from material design to magnetic manipulation

Citare: C34 - Lucrarea citata: L14

Clime, L; Veres, T; Yelon, A, Identification of switching fields in magnetic nanostructures by partial first order reversal curves
JOURNAL OF APPLIED PHYSICS, 2007, V.102, pp.-

Citare: C35 - Lucrarea citata: L14

Smirnov, AV, Low-temperature magnetic properties of magnetite using first-order reversal curve analysis: Implications for the pseudo-single-domain state
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 2006, V.7, pp.-

Citare: C36 - Lucrarea citata: L14

Carvalho, C; Muxworthy, A, Low-temperature first-order reversal curve (FORC) diagrams for synthetic and natural samples
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 2006, V.7, pp.-

Citare: C37 - Lucrarea citata: L14

Carvalho, C; Muxworthy, AR; Dunlop, DJ, First-order reversal curve (FORC) diagrams of magnetic mixtures: Micromagnetic models and measurements
PHYSICS OF THE EARTH AND PLANETARY INTERIORS, 2006, V.154, pp.308-322

Citare: C38 - Lucrarea citata: L14

Newell, AJ, A high-precision model of first-order reversal curve (FORC) functions for single-domain ferromagnets with uniaxial anisotropy
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 2005, V.6, pp.-

Citare: C39 - Lucrarea citata: L14

Wehland, F; Leonhardt, R; Vadeboin, F; Appel, E, Magnetic interaction analysis of basaltic samples and pre-selection for absolute palaeointensity measurements
GEOPHYSICAL JOURNAL INTERNATIONAL, 2005, V.162, pp.315-320

Citare: C40 - Lucrarea citata: L14

Muxworthy, A; Williams, W, Magnetostatic interaction fields in first-order-reversal-curve diagrams
JOURNAL OF APPLIED PHYSICS, 2005, V.97, pp.-

Citare: C41 - Lucrarea citata: L14

Muxworthy, AR; King, JG; Heslop, D, Assessing the ability of first-order reversal curve (FORC) diagrams to unravel complex magnetic signals
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, 2005, V.110, pp.-

Citare: C42 - Lucrarea citata: L14

Wehland, F; Stancu, A; Rochette, P; Dekkers, MJ; Appel, E, Experimental evaluation of magnetic interaction in pyrrhotite bearing samples
PHYSICS OF THE EARTH AND PLANETARY INTERIORS, 2005, V.153, pp.181-190

Citare: C43 - Lucrarea citata: L14

Muxworthy, A; Heslop, D; Williams, W, Influence of magnetostatic interactions on first-order-reversal-curve (FORC) diagrams: a micromagnetic approach
GEOPHYSICAL JOURNAL INTERNATIONAL, 2004, V.158, pp.888-897

Citare: C44 - Lucrarea citata: L14

Davies, JE; Hellwig, O; Fullerton, EE; Denbeaux, G; Kortright, JB; Liu, K, Magnetization reversal of Co/Pt multilayers: Microscopic origin of high-field magnetic irreversibility
PHYSICAL REVIEW B, 2004, V.70, pp.-

Citare: C45 - Lucrarea citata: L16

Kechrakos, D; Trohidou, KN, Dipolar interaction effects in the magnetic and magnetotransport properties of ordered nanoparticle arrays
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 2008, V.8, pp.2929-2943

Citare: C46 - Lucrarea citata: L16

Presa, B; Matarranz, R; Clavero, C; Garcia-Martin, JM; Calleja, JF; Contreras, MC, Morphological and magnetic properties of Co nanoparticle thin films grown on Si₃N₄
JOURNAL OF APPLIED PHYSICS, 2007, V.102, pp.-

Citare: C47 - Lucrarea citata: L16

Kechrakos, D; Trohidou, KN, Monte Carlo study of the transverse susceptibility in ordered arrays of magnetic nanoparticles
PHYSICAL REVIEW B, 2006, V.74, pp.-

Citare: C48 - Lucrarea citata: L16

Green, M, Organometallic based strategies for metal nanocrystal synthesis
CHEMICAL COMMUNICATIONS, 2005, V., pp.3002-3011

Citare: C49 - Lucrarea citata: L18

Morentin, FJ; Alejos, O; de Francisco, C; Munoz, JM; Hernandez-Gomez, P; Torres, C, Simple standard problem for the Preisach moving model
PHYSICA B-CONDENSED MATTER, 2004, V.343, pp.107-111

Citare: C50 - Lucrarea citata: L18

Morentin, FJ; Alejos, O; Munoz, JM; Torres, L; Lopez-Diaz, L, Proposal for a standard problem for Preisach based models
JOURNAL OF APPLIED PHYSICS, 2003, V.93, pp.6641-6643

9. Lucrări prezentate la conferințe din străinătate

- CS1 L. Stoleriu, A. Stancu, P. Postolache and I. Petrila Identification algorithm for the vector Preisach-LLG model
IEEE International Magnetism Conference, Intermag 2009, May 4-8 2009, Sacramento California, USA Oral
- CS2 L. Stoleriu, A. Stancu, P. Andrei, P. Postolache Vector mixed Preisach-LLG model. Implementation and comparisons
The 7th International Symposium on Hysteresis Modeling and Micromagnetics (HMM-2009), May 11-14, 2009, Gaithersburg, MD, USA Poster
- CS3 P. Postolache; I. Dumitru; O.F. Caltun; A. Stancu FORC analysis of magnetostrictive materials 53rd Conference on Magnetism and Magnetic Materials, MMM 2008, 10-14 November 2008, Austin, Texas, USA. Poster
- CS4 L. Stoleriu, P. Postolache, P. Andrei and A. Stancu "Rotational hysteresis first-order reversal curves diagrams as test problem for vectorial hysteresis models."
INTERMAG 2008 Conference, May 4 to May 8, 2008, Madrid, Spain Poster
- CS5 Ianculescu, A; Prihor, F; Postolache, P; Mitoseriu, L; Dragan, N; Crisan, D Preparation, Structural and Magnetic Properties of Mn-Doped La_{0.1}Bi_{0.9}FeO₃ Ceramics
9th European Conference on Applications of Polar Dielectrics (ECAPD-9) AUG 25-29, 2008 Rome, ITALY Poster
- CS6 Prihor, F; Ianculescu, A; Mitoseriu, L; Postolache, P; Curecheriu, L; Dragan, N; Crisan, D Functional Properties of the (1-x)BiFeO₃-xBaTiO₃ Solid Solutions
9th European Conference on Applications of Polar Dielectrics (ECAPD-9) AUG 25-29, 2008 Rome, ITALY Poster
- CS7 A. Stancu, P. Postolache, L. Stoleriu, V. Ionita, M. Rebican, E.A. Patroi Device for 2D vector hysteresis analysis of ferromagnetic media
JEMS 2008, 14-19 September 2008, Dublin, Ireland Poster
- CS8 A. Stancu, I. Petrila, P. Andrei, P. Postolache, L. Stoleriu FFT analysis of the rotational hysteresis curves as test problem for vector hysteresis models
JEMS 2008, 14-19 September 2008, Dublin, Ireland Poster
- CS9 Chiriac, Horia; Lupu, Nicoleta; Stoleriu, Laurentiu; Postolache, Petronel; Stancu, Alexandru New NdFeB-based bulk "exchange spring"-type permanent magnets. Experimental and micromagnetic FORC analysis
INTERMAG 2006, San Diego, California, USA, 8-12 May 2006 Poster
- CS10 Chiriac, H; Lupu, N; Stoleriu, L; Postolache, P; Stancu, A Experimental and micromagnetic first-order reversal curves analysis in NdFeB-based bulk "exchange spring" - type permanent magnets
Joint European Magnetic Symposia (JEMS 06) JUN 26-29, 2006 San Sebastian, SPAIN Oral
- CS11 Mitoseriu, L., Stancu, A., Stoleriu, L., Postolache, P., Ricinschi, D., Okuyama, M Switching characteristics of PZT films analyzed by First-Order Reversal Curve (FORC) diagrams
THIOX- Thin Films For Novel Oxide Devices, Santa Margherita Ligure, Italy, 18-19 May 2005 Poster
- CS12 Stancu, A; Stoleriu, L; Postolache, P; Tanasa, R New Preisach model for structured particulate ferromagnetic media
Joint European Magnetic Symposia (JEMS 04) SEP 05-10, 2004 Dresden, GERMANY Poster

- CS13 Ricinschi, D; Mitoseriu, L; Stancu, A; Postolache, P; Okuyama, M Analysis of the switching characteristics of PZT films by first order reversal curve diagrams 16th International Symposium on Integrated Ferroelectrics/5th Korean Workshop on High Dielectric Devices and Materials APR 05-08, 2004 Gyeongju, SOUTH KOREA Poster
- CS14 Stancu, A; Postolache, P; Stoleriu, L Nonparametric identification algorithm of the Preisach distribution based on the First Order Reversal Curves (FORC) diagram 11th International Symposium on Applied Electromagnetics and Mechanics MAY 12-14, 2003 Versailles, FRANCE Poster
- CS15 Stancu, A; Stoleriu, L; Postolache, P; Cerchez, M Preisach-type model for strongly interacting ferromagnetic particulate systems 9th Joint Magnetism and Magnetic Materials Conference/ International Magnetism Conference JAN 05-09, 2004 Anaheim, CA Poster
- CS16 Spinu, L; Stancu, A; Tung, LD; Fang, J; Postolache, P; O'Connor, CJ Temperature dependent integral generalized Delta-M plots and interactions in cobalt nanoparticle systems 4th International Conference on Fine Particle Magnetism (ICFPM) AUG 14-16, 2002 PITTSBURGH, PENNSYLVANIA Poster
- CS17 Postolache, P; Cerchez, M; Stoleriu, L; Stancu, A Experimental evaluation of the Preisach distribution for magnetic recording media International Magnetism Conference MAR 30-APR 03, 2003 BOSTON, MASSACHUSETTS Poster
- CS18 Cimpoesu, D; Postolache, P; Stancu, A First order approximation for interactions in particulate single-domain particle systems 47th Annual Conference on Magnetism and Magnetic Materials NOV 11-15, 2002 TAMPA, FLORIDA Poster
- CS19 Stancu, A; Pike, C; Stoleriu, L; Postolache, P; Cimpoesu, D Micromagnetic and Preisach analysis of the First Order Reversal Curves (FORC) diagram 47th Annual Conference on Magnetism and Magnetic Materials NOV 11-15, 2002 TAMPA, FLORIDA Poster
- CS20 Spinu, L; Tung, LD; Fang, J; Postolache, P; Diaconu, M; Stancu, A Temperature dependent integral Generalized DeltaM curves International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM-2001) SEP 17-18, 2001 IASI, ROMANIA Poster
- CS21 Spinu, L; Stancu, A; Tung, LD; Fang, J; Postolache, P; Srikanth, H; O'Connor, CJ Relaxation and interaction effects on transverse susceptibility measurements of nanoparticle systems Joint European Magnetic Symposia (JEMS 01) AUG 28-SEP 01, 2001 GRENOBLE, FRANCE Poster
- CS22 Cerchez, M; Bissell, PR; Chantrell, RW; Stancu, AL; Stoleriu, L; Postolache, P The use of generalized Delta M plots in the interaction field analysis. Conference of the NATO Advanced-Study-Institute on Magnetic Storage Systems Beyond 2000 JUN 25-JUL 07, 2000 RHODES, GREECE Poster
- CS23 Stancu, A; Stoleriu, L; Cerchez, M; Postolache, P; Cimpoesu, D; Spinu, L Standard problems for phenomenological Preisach-type models 3rd International Symposium on Hysteresis and Micromagnetics Modeling MAY 21-23, 2001 UNIV GEORGE WASHINGTON, ASHBURN, VIRGINIA Poster
- CS24 Bissell, PR; Ardeleanu, PC; Postolache, P; Cerchez, M; Stancu, A Analysis of AC type magnetization processes in particulate recording media 8th Joint Magnetism and Magnetic Materials International Magnetism Conference (MMM-INTERMAG) JAN 07-11, 2001 SAN ANTONIO, TEXAS Poster

10. Lucrări prezentate la conferințe din țara

- CT1 L.P. Curecheriu, M.T. Buscaglia, V. Buscaglia, A. Ianculescu, P. Postolache, A. Stancu, L. Mitoseriu and P.Nanni In-situ preparation of multiferroic nanocomposites with core-shell structures ROMSC 2009, 8 June, Iasi, Romania Oral
- CT2 L. Stoleriu, P. Postolache, C. Pinzaru, O. Rusu, A. Stancu Vector mixed Preisach-LLG model ROMSC 2009, 8 June, Iasi, Romania Oral
- CT3 C.E. Ciomaga, I. Dumitru, P. Postolache, L. Mitoseriu, C. Galassi, A.R. Iordan, M.N. Palamaru, Double-resonant permittivity & permeability in ferroelectric-ferrite composites: a route towards isotropic metamaterials ROMSC 2009, 8 June, Iasi, Romania Poster
- CT4 L.P. Curecheriu, M.T. Buscaglia, V. Buscaglia, C.E. Ciomaga, P. Postolache, L. Mitoseriu, P. Nanni Functional properties of (Ni,Zn)Fe₂O₄@BaTiO₃ multiferroic composites with core-shell structures ROMSC 2009, 8 June, Iasi, Romania Poster
- CT5 F. Prihor, P. Postolache, I. Dumitru, L. Mitoseriu, A. Ianculescu Multiferroic properties of BiFeO₃-based ceramics ROMSC 2009, 8 June, Iasi, Romania Poster
- CT6 I. Bodale, P. Postolache, A. Stancu Identification of the reversible and irreversible components of magnetization in nanostructured systems ROMSC 2009, 8 June, Iasi, Romania Poster
- CT7 L. Stoleriu, M. Kuczmann, P. Postolache, A. Stancu Inverse vector hysteresis models ROMSC 2009, 8 June, Iasi, Romania Poster
- CT8 V. Nica, F. Brînză, P. Postolache, A. Stancu Magnetic Interactions in Ni_xCo_{1-x} Systems Embedded in Simple and Mixed Non-Conductive Matrices ROMSC 2009, 8 June, Iasi, Romania Poster
- CT9 H. Chiriac, Nicoleta Lupu, L. Stoleriu, P. Postolache, A. Stancu Experimental and micromagnetic FORC analysis for new NdFeB-based bulk "exchange spring"-type permanent magnets MMDE-ROMSC 2008, 15-17 June, Bucuresti, Romania

Poster
CT10 P. Postolache, A. Stancu Models for systems of magnetostrictive single-domain particles ROMSC 2007, 26-29 May, Iasi, Romania Poster
CT11 Fecioru-Morariu, M; Ricinski, D; Postolache, P; Ciomaga, CE; Stancu, A; Mitoseriu, L First order reversal curves and hysteresis loops of ferroelectric films described by phenomenological models 4th International Workshop on Materials for Electrotechnics MAY 26-28, 2004 Bucharest, ROMANIA Poster
CT12 Ricinski, D; Stancu, A; Mitoseriu, L; Postolache, P; Okuyama, M First order reversal curves diagrams applied for the ferroelectric systems 2nd International Workshop on Amorphous and Nanostructures Magnetic Materials SEP 15-17, 2003 Iasi, ROMANIA Poster

11. Premii obținute prin selecție

Premiul centrului de excelență CARPATH, 2002

Stagii în străinătate (perioade peste 6 luni)

Bursa SOCRATES/ERASMUS, master:

Februarie 2000 – Iulie 2000: Centre for Materials Science, University of Central Lancashire, Preston, UK

Stagii în străinătate (perioade sub 6 luni)

Bursa Gov. României (doctorat):

Noiembrie 2001 - Februarie 2002: Centre for Materials Science, University of Central Lancashire, Preston, UK

Specializări și calificări:

Alte informații relevante pentru competiție:

Membru al asociațiilor profesionale: Membru IEEE, Membru al Societății Române de Fizică

Dr. Petronel Postolache este specialist în magnetism, modelare și simulare.

Domenii de competență și rezultate semnificative:

Experiență de peste zece ani în metode experimentale de măsurare a momentului magnetic VSM/AGM.

Implementarea numerică a diverselor modele fenomenologice și micromagnetice (Preisach, LLG).

Membru al grupului de cercetare care a realizat un nou model de tip Preisach (PM2 – Preisach model for particulate media).

Membru al centrului de excelență CARPATH și al platformei interdisciplinare AMON.

Recomandări de la:

- Prof. Dr. Alexandru STANCU,
- Prof. Dr. Liliana MITOSERIU