

Curriculum vitae			
Informații personale			
Nume / Prenume	Stoleriu Laurențiu		
Titlu didactic	Profesor universitar		
Titlu științific/Data obținerii/Instituția	Doctor abilitat / 2014 Doctor în fizică / 2002 / Universitatea Al. I. Cuza, Iași		
Principale direcții de cercetare	Studiul proceselor însoțite de histerezis Micromagnetism Spintronică		
Adresa	Facultatea de Fizică, Blvd. Carol I, 11, cod 700506, Iași, Romania		
Telefon	0232 201102 # 2541		
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E-mail	LSTOLER@UAIC.RO		
Cetățenia	Română		
Locul și Data nașterii	Iași, 02/06/1972		
Locul de muncă actual	Universitatea Al. I. Cuza, Iași		
Experiența profesională / Poziții didactice în învățământ / Instituția și perioada	<ul style="list-style-type: none"> - asistent cercetare, Univ. Al. I. Cuza, 07.10.1996 – 30.09.1998 - asistent universitar, Univ. Al. I. Cuza, 01.10.1998 – 18.02.2001 - lector universitar asociat, Univ. Al. I. Cuza, 19.02.2001 – 24.02.2002 - lector universitar, Univ. Al. I. Cuza, 25.02.2002 – 30.09.2007 - conferențiar universitar, Univ. Al. I. Cuza, 01.10.2007 – 17.02.2019 - profesor universitar, Univ. Al. I. Cuza, 18.02.2019 – 		
Limbi străine cunoscute			
Autoevaluare	Scris	Citit	Nivel conversațional
Engleză	5	5	5
Franceză	2	4	4
Chineza	1	1	1
	1 – nivel minim; 5 – nivel avansat		
Competențe profesionale	Cursuri predate / Seminarii / Laboratoare organizate Cursuri seminarii și laboratoare începând din 1998: Programare paralelă (curs, lab.) Limbaje de programare (curs) Modelarea proceselor fizice (curs, lab.) Introducere în modelarea proceselor fizice (curs, lab.) Tehnologii informaționale în educație (curs, lab.) Programarea calculatoarelor, limbajele C și C++ (curs, lab.) Programe utilitare sub Windows (curs, lab.) Electricitate și magnetism (sem., lab.) Electricitate și magnetism (sem., lab., în limba engleză) Baze de date (curs, lab.) Utilizarea calculatorului în predarea fizicii (curs, lab.) Tehnologii multimedia (curs, lab.)		
Competențe și aptitudini organizatorice	<ul style="list-style-type: none"> - Mai mult de 20 ani vechime în învățământul superior și cercetare - Membru al Consiliului Național al Cercetării Științifice (O.M. 5817/24.11.2016) - Președinte al Comisiei de Fizică a CNCS din 2020 - Expert ARACIS, comisia 13 ID-IFR, mai mult de 15 vizite de acreditare la activ - Expert evaluator CNCSIS 2004, 2005, 2006, 2009, 2010, 2015, 2017, 2019 - Experiență în <<peer reviewing>> dobândită prin activitate de referent științific pentru zeci de conferințe / jurnale - Chairman: 12th Joint MMM-Intermag Conference, Vancouver 2012 - Membru în fiecare an al comitetului de organizare a conferinței IEEE ROMSC 		

	<p>2005 – 2018 http://stoner.phys.uaic.ro/ieee/ieee-romsc-home.html</p> <p>- Membru în comitetul științific și în comitetul de organizare al celui de al 10-lea International Symposium on Hysteresis Modeling and Micromagnetism (HMM 2015) http://hmm2015.uaic.ro/committees.html</p> <p>- Membru în comitetul de organizare a celei de a 6-a European Conference on Molecular Magnetism (ECMM 2017) http://ecmm2017.ro/details.php#committees</p> <p>- Membru în comitetul editorial al celui de al 12-lea International Symposium on Hysteresis Modeling and Micromagnetism (HMM 2019) http://hmm19.tem.uoc.gr/</p>
<p>Activitatea didactica</p>	<p>- Cărți:</p> <ul style="list-style-type: none"> - L. Stoleriu, Al. Stancu, „<i>Modelarea și simularea proceselor fizice</i>”, Ed. TEHNOPRESS, Iași, 2007 - A. Stancu, L. Stoleriu, M. Cerchez, ”<i>Tehnologia Învățământului la Distanță</i>” (vol.1), Editura Universității Alexandru Ioan Cuza din Iași, 130 pag, ISSN: 1221-9363 - T. Mateescu, A. Stancu, N. Cerchez, L. Stoleriu, M. Cerchez, ”<i>Tehnologia Învățământului la Distanță</i>” (vol.2), Editura Universității Alexandru Ioan Cuza din Iași, 115 pag, ISSN: 1221-9363 <p>- Îndrumări lucrări de finalizare a studiilor: mai mult de 20 de lucrări de licență și 5 disertații îndrumate în ultimii 10 ani</p> <p>- Organizator la Concursului Național de Fizică PHI (online) începând cu 2003</p> <p>- Director al proiectului ROSE-Evrika! al Facultății de Fizică 2019-2021</p>
<p>Activitatea de cercetare științifică</p>	<p>a) Domenii de competență/ numar de lucrari publicate</p> <p>88 lucrari ISI >35 puncte ISI (individuale)</p> <p>b) Publicații (dintre cele mai valoroase articole publicate).</p> <ul style="list-style-type: none"> - Popa, A.; Stoleriu, L.; Enachescu, C. Tutorial on the elastic theory of spin crossover materials, <i>JOURNAL OF APPLIED PHYSICS</i> Vol.: 129, Art.: 131101, 2021 - Stoleriu, L.; Nishino, M; Miyashita, S; Stancu, A.; Enachescu, C Cluster evolution in molecular three-dimensional spin-crossover systems, <i>PHYSICAL REVIEW B</i>, Vol.: 96(6), Art.: 064115, 2017 - Bertoni, R; Lorenc, M; Cailleau, H; Tissot, A; Laisney, J; Boillot, ML; Stoleriu, L.; Stancu, A; Enachescu, C; Collet, E Elastically driven cooperative response of a molecular material impacted by a laser pulse, <i>NATURE MATERIALS</i>, Vol.: 15(6), p. 606, 2016 - Enachescu, C; Stoleriu, L.; Stancu, A; Hauser, A Model for Elastic Relaxation Phenomena in Finite 2D Hexagonal Molecular Lattices, <i>PHYSICAL REVIEW LETTERS</i>, Vol.: 102(25), Art.: 257204, 2009. - Stoleriu, L.; Stancu, A; Mitoseriu, L; Piazza, D; Galassi, C Analysis of the switching properties of porous ferroelectric ceramics by means of the First-order Reversal Curves (FORC) diagrams, <i>PHYSICAL REVIEW B</i>, Vol.: 99(8), Art.: 08D702, 2006. - Stoleriu, L.; Andrei, P; Stancu, A First order reversal curves identification procedures for vector models of hysteresis, <i>JOURNAL OF APPLIED PHYSICS</i>, Vol.: 103(7), Art.: 07D923, 2008. <p>c) Contracte de cercetare stiintifica (numar total si doua titluri din ultimii cinci ani)</p> <ul style="list-style-type: none"> - Membru în echipa unui program FP6: <ul style="list-style-type: none"> - MAGMANET (MOLECULAR APPROACH TO NANOMAGNETS AND MULTIFUNCTIONAL MATERIALS), Rețea de Excelență Europeană (Network of Excellence) - Membru al comitetului de management al unui proiect COST: <ul style="list-style-type: none"> - MAGNETOFON (Ultrafast Opto-magneto-electronics For Non-dissipative Information), COST Action CA17123 - Membru supleant al comitetului de management al unui proiect COST: <ul style="list-style-type: none"> - ECOSTBio (Explicit Control Over Spin-states in Technology and Biochemistry), COST Action CM1305 - Director de proiect: <ul style="list-style-type: none"> - High performance computing of advanced magnetic structures designed for

	<p>tomorrow's memories and sensors, CNCS TE, 2012-2014</p> <ul style="list-style-type: none"> - Studiul comutarii rapide (comutare balistica) a momentelor magnetice in sisteme feromagnetice nanometrice cu aplicatii la medii moderne de inregistrare magnetica, CNCSIS AT, 2007 - Studiu experimental și teoretic al proceselor fizice însoțite de histerezis în materiale feromagnetice, feroelectrice și cu tranziție de spin, MEDC-ANCS CEEXTineri, 130.000 RON in 2005-2007 <p>- Membru în echipa a peste 30 de contracte de cercetare.</p> <p>d) Citari ISI ale articolelor (excluzand autocitarile)/Numar citari >1020 citări ISI</p>
<p>Prezentări orale, invitate / plenare la conferințe internaționale în ultimii ani</p>	<ul style="list-style-type: none"> - L. Stoleriu, "The mechano-elastic model for the study of spin crossover molecular magnets" (invited), Correlation Optics, 2011, Cernauți, Ucraina. - L. Stoleriu, C. Pînzaru, A. Stancu, "Micromagnetic analysis of mechanical stress effect on magnetic fomain structure of amorphous wires", FC03, Intermag Conference, 2012, Vancouver, Canada. - L. Stoleriu, C. Enăchescu, "Study of cluster evolution in 3D spin crossover compounds in the framework of an elastic model" (plenary), EcostBio Meeting, 2015, Belgrade, Serbia. - L. Stoleriu, A. Stancu, "Micromagnetic and FORC analysis of antidot ferromagnetic arrays" (plenary), Advances in Magnetism Conference, 2016, Bormio, Italy. - L. Stoleriu, A. Stancu, C. Enăchescu, "Modeling spin crossover compounds – from quasistatic hysteresis to femtosecond elastic response" (invited), TIM 15-16 Conference, 2016, Timișoara, Romania. - L. Stoleriu, A. Stancu, C. Enăchescu, "The mechano-elastic model for spin crossover compounds" (invited), CNFA Conference, 2016, Iași, Romania.
<p>Profesor invitat / Prezentări invitate în afara unor conferințe</p>	<ul style="list-style-type: none"> - Septembrie 2018, invitat la Washington and Lee University, Virginia, SUA – conferința cu titlul "Modeling physical processes: how simple is not too simple? The spin-crossover materials test case" - Octombrie 2018, invitat la IMEC, Leuven, Belgia – conferința cu titlul "FORC diagram technique – highlights and limits"
<p>Capitole în cărți publicate la edituri internaționale</p>	<ul style="list-style-type: none"> - A. Stancu, L. Stoleriu, M. Cerchez, D. Cimpoesu, P. Postolache, R. Tanasa, 2005, "The Preisach Model for Patterned Media" in Preisach memorial book, pp. 143-153, Editura Academiei Ungare, Budapesta, ISBN: 963-05-8264-3 - A. Stancu, L. Stoleriu, 2007, "Preisach modeling and FORC characterization for hysteretic phenomena in ferroics" in New Developments in Advanced Functional Ceramics, pp. 267-292, Editura Transworld Research Network, India, ISBN: 81-7895-248-3

Lista lucrărilor ISI

- [1] Probing Magnetic Defects in Ultra-Scaled Nanowires with Optically Detected Spin Resonance in Nitrogen-Vacancy Center in Diamond
By: Celano, U; Zhong, H; Ciubotaru, F; Stoleriu, L; Stark, A; Rickhaus, P; de Oliveira, FF; Munsch, M; Favia, P; Korytov, M; Van Marcke, P; Maletinsky, P; Adelman, C; van der Heide, P.
NANO LETTERS Volume: 21(24) Pages: 10409-10415 Published: 2021
- [2] Photo-Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy
By: Hu, YW; Picher, M; Tran, NM; Palluel, M; Stoleriu, L; Daro, N; Mornet, S; Enachescu, C; Freysz, E; Banhart, F; Chastanet, G
ADVANCED MATERIALS, Article Number: 2105586 Published: 2021
- [3] Dynamic Stoner-Wohlfarth Model for Time-Dependent Magnetization Analysis
By: Amanoloaei, G; Stancu, A and Stoleriu, L
IEEE MAGNETICS LETTERS Volume: 12 Article Number: 6103105 Published: 2021
- [4] Tutorial on the elastic theory of spin crossover materials
By: Popa, A.; Stoleriu, L.; Enachescu, C.
JOURNAL OF APPLIED PHYSICS Volume: 129 Article Number: 131101 Published: 2021
- [5] Coupling dependent reversal in Co/Pt based mixed anisotropy multilayer stacks
By: Markou, A.; Panagiotopoulos, I; Stoleriu, L.; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 485 Pages: 205-211 Published: SEP 1 2019
- [6] Elastic model for spin crossover nanoparticles in matrices
By: Stoleriu, Laurentiu; Enachescu, Cristian
PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE Volume: 20 Issue: 1 Pages: 59-66 Published: JAN-MAR 2019
- [7] Lorentz magneto-resonator model and colossal magnetodielectric effect of magnetoelectric heterostructures
By: He, Wenqiang; Wang, Wei; Luo, Xiaobin; et al.
SENSORS AND ACTUATORS A-PHYSICAL Volume: 281 Pages: 150-155 Published: OCT 1 2018
- [8] Study of magnetization reversal in layered heterostructures by vector magnetometry
By: Markou, A.; Mourkas, A.; Koume, A.; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 445 Pages: 95-102 Published: JAN 1 2018
- [9] Cluster evolution in molecular three-dimensional spin-crossover systems
By: Stoleriu, Laurentiu; Nishino, Masamichi; Miyashita, Seiji; et al.
PHYSICAL REVIEW B Volume: 96 Issue: 6 Article Number: 064115 Published: AUG 24 2017
- [10] Theoretical approach for elastically driven cooperative switching of spin-crossover compounds impacted by an ultrashort laser pulse
By: Enachescu, Cristian; Stoleriu, Laurentiu; Nishino, Masamichi; et al.
PHYSICAL REVIEW B Volume: 95 Issue: 22 Article Number: 224107 Published: JUN 29 2017
- [11] Elastically driven cooperative response of a molecular material impacted by a laser pulse
By: Bertoni, Roman; Lorenc, Maciej; Cailleau, Herve; Tissot, Antoine; Laisney, Jerome; Boillot, Marie-Laure; Stoleriu, Laurentiu; Stancu, Alexandru; Enachescu, Cristian; Collet, Eric
NATURE MATERIALS Volume: 15 Issue: 6 Pages: 606-610 Published: JUN 2016
- [12] Structural, optical and magnetic properties of Ni doped SnO₂ nanoparticles

By: Pascariu (Doraneanu), Petronela; Airinei, Anton; Grigoras, Mircea; Fifere, Nicusor; Sacarescu, Liviu; Lupu, Nicoleta; Stoleriu, Laurentiu
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 668 Pages: 65-72 Published: MAY 25 2016

- [13] Shape anisotropy in zero-magnetostrictive rapidly solidified amorphous nanowires
By: Rotarescu, C.; Atitoaie, A.; Stoleriu, L.; Ovari, T-A; Lupu, N.; Chiriac, H.
Conference: 10th International Symposium on Hysteresis Modeling and Micromagnetics (HMM)
Location: Alexandru Ioan Cuza Univ, Iasi, ROMANIA Date: MAY 18-20, 2015
PHYSICA B-CONDENSED MATTER Volume: 486 Pages: 73-76 Published: APR 1 2016
- [14] Thermal hysteresis kinetic effects of spin crossover nanoparticulated systems studied by FORC diagram method on an Ising-like model
By: Atitoaie, Alexandru; Stoleriu, Laurentiu; Tanasa, Radu; Stancu, Alexandru; Enachescu, Cristian
Conference: 10th International Symposium on Hysteresis Modeling and Micromagnetics (HMM)
Location: Alexandru Ioan Cuza Univ, Iasi, ROMANIA Date: MAY 18-20, 2015
PHYSICA B-CONDENSED MATTER Volume: 486 Pages: 138-141 Published: APR 1 2016
- [15] Analysis of first order reversal curves in the thermal hysteresis of spin-crossover nanoparticles within the mechanoelastic model
By: Stoleriu, Laurentiu; Stancu, Alexandru; Chakraborty, Pradip; Hauser, Andreas; Enachescu, Cristian
JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 17 Article Number: 17B307 DOI: 10.1063/1.4914953 Published: MAY 2015
- [16] Micromagnetic Evaluation of Size Effects on the Critical Curves of Synthetic Antiferromagnetic Structures
By: Pinzaru, Ciprian; Stoleriu, Laurentiu; Stancu, Alexandru
IEEE TRANSACTIONS ON MAGNETICS Volume: 50 Issue: 7 Article Number: 7100405 Part: 2 Published: JUL 2014
- [17] Effect of damping on the laser induced ultrafast switching in rare earth-transition metal alloys
By: Oniciuc, E.; Stoleriu, L.; Cimpoesu, D.; Stancu, A.
APPLIED PHYSICS LETTERS Volume: 104 Issue: 22 Article Number: 222404 DOI: 10.1063/1.4881135 Published: JUN 2014
- [18] LLB simulation of the temperature dependent switching critical curve of a Stoner-Wohlfarth macrospin in the presence of a polarized current
By: Oniciuc, E.; Stoleriu, L.; Stancu, A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 352 Pages: 99-106 Published: FEB 2014
- [19] Generalized Stoner-Wohlfarth model accurately describing the switching processes in pseudo-single ferromagnetic particles
By: Cimpoesu, D.; Stoleriu, L.; Stancu, A.
JOURNAL OF APPLIED PHYSICS Volume: 114 Issue: 22 Article Number: 223901 DOI: 10.1063/1.4839895 Published: DEC 2013
- [20] Magnetization reversal in triangular L1(0)-FePt nanoislands
By: Markou, A.; Beltsios, K. G.; Gergidis, L. N.; Panagiotopoulos, I.; Bakas, T.; Ellinas, K.; Tserepi, A.; Stoleriu, L.; Tanasa, R.; Stancu, A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 344 Pages: 224-229 DOI: 10.1016/j.jmmm.2013.06.009 Published: OCT 2013
- [21] Angular resonant absorption curves in magnetic nanowire arrays
By: Cimpoesu, Dorin; Ding, Junjia; Stoleriu, Laurentiu; Adeyeye, Adekunle; Stancu, Alexandru; Spinu, Leonard
APPLIED PHYSICS LETTERS Volume: 102 Issue: 23 Article Number: 232401 DOI: 10.1063/1.4810758 Published: JUN 2013

- [22] Landau-Lifshitz-Bloch-Slonczewski simulations of the spin-transfer-torque driven magnetization switching assisted by Joule heating
By: Oniciuc, Eugen; Stoleriu, Laurentiu; Stancu, Alexandru
APPLIED PHYSICS LETTERS Volume: 102 Issue: 2 Article Number: 022405 DOI: 10.1063/1.4775682 Published: JAN 14 2013
- [23] Magnetization reversal in graded anisotropy Co/Pt multilayers: A first order reversal curve study
By: Markou, A.; Panagiotopoulos, I.; Bakas, T.; et al.
JOURNAL OF APPLIED PHYSICS Volume: 112 Issue: 12 Article Number: 123914 DOI: 10.1063/1.4770487 Published: DEC 15 2012
- [24] Monte Carlo Metropolis study of cluster evolution in spin-crossover solids within the framework of a mechanoelastic model
By: Cristian Enachescu, Masamichi Nishino, Seiji Miyashita, Laurentiu Stoleriu, Alexandru Stancu
PHYSICAL REVIEW B Volume: 86 Article Number: 054114 Published: 2012
- [25] Investigation of the composition-dependent properties of BaTi_{1-x}Zr_xO₃ ceramics prepared by the modified Pechini method
By: Deluca, Marco; Vasilescu, Catalina; Ianculescu, Adelina; Berger, Daniela; Ciomaga, Cristina; Curecheriu, Lavinia; Stoleriu, Laurentiu; Gajovic, Andreja; Mitoseriu, Liliana; Galassi, Carmen
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 32 Issue: 13 Pages: 3551-3566 DOI: 10.1016/j.jeurceramsoc.2012.05.007 Published: OCT 2012
- [26] High-field dielectric properties and Raman spectroscopic investigation of the ferroelectric-to-relaxor crossover in BaSn_xTi_{1-x}O₃ ceramics
By: Marco Deluca, Laurentiu Stoleriu, Lavinia Petronela Curecheriu, Nadejda Horchidan, Adelina Carmen Ianculescu, Carmen Galassi, Liliana Mitoseriu
JOURNAL OF APPLIED PHYSICS Volume: 111 Article Number: 084102 Published: 2012
- [27] Micromagnetic analysis of switching and domain structure in amorphous metallic nanowires
By: Stoleriu L, Pinzaru C, Stancu A
APPLIED PHYSICS LETTERS Volume: 100 Issue: 12 Article Number: 122404 DOI: 10.1063/1.3696046 Published: MAR 2012
- [28] Thermal hysteresis in spin-crossover compounds studied within the mechanoelastic model and its potential application to nanoparticles
By: Stoleriu L, Chakraborty P, Hauser A, Stancu A, Enachescu C
PHYSICAL REVIEW B Volume: 84 Issue: 13 Article Number: 134102 DOI: 10.1103/PhysRevB.84.134102 Published: OCT 11 2011
- [29] Study of the relaxation in diluted spin crossover molecular magnets in the framework of the mechano-elastic model
By: Enachescu C, Stoleriu L, Stancu A, Hauser A
Conference Information: 55th Annual Conference on Magnetism and Magnetic Materials, NOV, 2010 Atlanta, GA
JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 7 Article Number: 07B111 Published: APR 2011
- [30] Magnetization reversal in [Ni/Pt](6)/Pt(x)/[Co/Pt](6) multilayers
By: Siadou N, Androustopoulos M, Panagiotopoulos I, Stoleriu L, Stancu A, Bakas T, Alexandrakis V
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 323 Issue: 12 Pages: 1671-1677 Published: JUN 2011
- [31] Reversible and Irreversible Components Evaluation in Hysteretic Processes Using First and Second-Order Magnetization Curves
By: Bodale I, Stoleriu L, Stancu A

- [32] Cluster evolution in spin crossover systems observed in the frame of a mechano-elastic model
By: Enachescu C, Nishino M, Miyashita S, Hauser A, Stancu A, Stoleriu L
EPL Volume: 91 Issue: 2 Article Number: 27003 Published: JUL 2010
- [33] Competition between photoexcitation and relaxation in spin-crossover complexes in the frame of a mechanoelastic model
By: Enachescu C, Stoleriu L, Stancu A, Hauser A
PHYSICAL REVIEW B Volume: 82 Issue: 10 Article Number: 104114 Published: SEP 21 2010
- [34] Monte Carlo simulations of phase transitions and lattice dynamics in an atom-phonon model for spin transition compounds
By: Apetrei AM, Enachescu C, Tanasa R, Stoleriu L, Stancu A
PHYSICA B-CONDENSED MATTER Volume: 405 Issue: 17 Pages: 3673-3678 Published: SEP 1 2010
- [35] Realistic Reversible Magnetization Component in Preisach-Type Models
By: Stoleriu L, Bodale I, Apetrei A, Stancu A
IEEE TRANSACTIONS ON MAGNETICS Volume: 46 Issue: 6 Pages: 2341-2344 Published: JUN 2010
- [36] Preisach model for systems with asymmetric First order reversal curve (FORC) distribution
By: Stancu A, Negulescu B, Tanasa R, Stoleriu L
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 4 Issue: 3
Pages: 361-364 Published: MAR 2010
- [37] Rotational first-order reversal curves (rFORC) diagrams
By: Stoleriu L, Postolache P, Andrei P, Stancu A
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 4 Issue: 4
Pages: 505-508 Published: APR 2010
- [38] Model for Elastic Relaxation Phenomena in Finite 2D Hexagonal Molecular Lattices
By: Enachescu C, Stoleriu L, Stancu A, Hauser A
PHYSICAL REVIEW LETTERS Volume: 102 Issue: 25 Article Number: 257204 Published: JUN 26 2009
- [39] Elastic Model for Complex Hysteretic Processes in Molecular Magnets
By: Stoleriu L, Enachescu C, Stancu A, Hauser A
Conference Information: International Magnetism Conference (Intermag), MAY 04-08, 2008 Madrid, SPAIN
IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 11 Pages: 3052-3055 Part: Part 1
Published: NOV 2008
- [40] First order reversal curves identification procedures for vector models of hysteresis
By: Stoleriu L, Andrei P, Stancu A
Conference Information: 52nd Annual Conference on Magnetism and Magnetic Materials, NOV 05-09, 2007 Tampa, FL
JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 7 Article Number: 07D923 Published: APR 1 2008
- [41] Hysteresis and tunability characteristics of Ba(Zr,Ti)O₃ ceramics described by First Order Reversal Curves diagrams
By: Mitoseriu L, Ciomaga CE, Buscaglia V, Stoleriu L, Piazza D, Galassi C, Stancu A, Nanni P
Conference Information: International Conference on Electroceramics, JUN 18-22, 2006 Toledo, SPAIN

- [42] Experimental and micromagnetic first-order reversal curves analysis in NdFeB-based bulk "exchange spring" - type permanent magnets
By: Chiriac H, Lupu N, Stoleriu L, Postolache P, Stancu A
Conference Information: Joint European Magnetic Symposia (JEMS 06), JUN 26-29, 2006 San Sebastian, SPAIN
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: 177-180
Published: SEP 2007
- [43] Influence of material anisotropy in the switching toggle mode in MRAM devices
By: Olariu CS, Stoleriu L, Stancu A
Conference Information: Joint European Magnetic Symposia (JEMS 06), JUN 26-29, 2006 San Sebastian, SPAIN
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E302-E305
Published: SEP 2007
- [44] Vectorial Preisach-type model designed for parallel computing
By: Stancu A, Stoleriu L, Andrei P
Conference Information: Joint European Magnetic Symposia (JEMS 06), JUN 26-29, 2006 San Sebastian, SPAIN
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E309-E312
Published: SEP 2007
- [45] Identification techniques for phenomenological models of hysteresis based on the conjugate gradient method
By: Andrei P, Oniciuc L, Stancu A, Stoleriu L
Conference Information: Joint European Magnetic Symposia (JEMS 06), JUN 26-29, 2006 San Sebastian, SPAIN
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E330-E333
Published: SEP 2007
- [46] Simulation of toggle mode switching in MRAM'S
By: Olariu CS, Stoleriu L, Stancu A
Conference Information: 7th International Balkan Workshop on Applied Physics, JUL 05-07, 2006 Constanta, ROMANIA
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 4 Pages: 1140-1142
Published: APR 2007
- [47] Analysis of switching properties of porous ferroelectric ceramics by means of first-order reversal curve diagrams
By: Stoleriu L, Stancu A, Mitoseriu L, Piazza D, Galassi C
PHYSICAL REVIEW B Volume: 74 Issue: 17 Article Number: 174107
Published: NOV 2006
- [48] Reversible magnetization processes in scalar Preisach-type models of hysteresis
By: Stoleriu L, Stancu A
Conference Information: 3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials, SEP 19-21, 2005 Iasi, ROMANIA
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 5 Pages: 1710-1714
Published: OCT 2006
- [49] Using experimental FORC distribution as input for a Preisach-type model
By: Stoleriu L, Stancu A
Conference Information: 41st IEEE International Magnetism Conference (Intermag 2006), MAY 08-12, 2006 San Diego, CA
IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Issue: 10 Pages: 3159-3161
Published: OCT 2006

- [50] Influence of stoichiometry on the dielectric and ferroelectric properties of the tunable (Ba,Sr)TiO₃ ceramics investigated by First Order Reversal Curves method
 By: Mitoseriu L, Stoleriu L, Viviani M, Piazza D, Buscaglia MT, Calderone R, Buscaglia V, Stancu A, Nanni P, Galassi C
 Conference Information: COST 525 Meeting on Grain Boundary Engineering of Electronic Ceramics, JUN, 2005 Portoroz, SLOVENIA
 JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 26 Issue: 14 Pages: 2915-2921
 Published: 2006
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