

Curriculum Vitae			
1. Nume:	Stancu		
2. Prenume:	Alexandru		
3. Data și locul nașterii:	4 August 1957, Iași		
4. Cetățenie:	Română		
5. Studii:			
Instituția:	Perioada	Grade sau diplome obținute	
Universitatea "Alexandru Ioan Cuza" Iași	1976-1980	Licențiat în fizică*	
Universitatea "Alexandru Ioan Cuza" Iași	1980-1981	Specializarea – Optică, spectroscopie, fizica plasmei	
Universitatea "Alexandru Ioan Cuza" Iași	1989-1995	Doctor in fizică (magnetism)	
6. Experiența profesională:			
Instituția	Perioada	Funcția	Descriere:
Liceul industrial Tg. Frumos	1981-1984	Profesor de fizică	Activitate didactică
Universitatea "Alexandru Ioan Cuza" Iași	1984-1990	Cercetător științific	Activitate de cercetare
Universitatea "Alexandru Ioan Cuza" Iași	1990-1991	Asistent universitar	Activitate didactică și de cercetare
Universitatea "Alexandru Ioan Cuza" Iași	1991-1996	Lector universitar	Activitate didactică și de cercetare
Universitatea "Alexandru Ioan Cuza" Iași	1996-1999	Conferențiar	Activitate didactică și de cercetare
Universitatea "Alexandru Ioan Cuza" Iași	1999-prezent	Profesor universitar	Activitate didactică și de cercetare
7. Titluri științifice:	Doctor în fizică		
8. Limbi străine cunoscute:	Engleză (excellent), Franceză (bine), Mandarina (începător)		
9. Brevete de invenții	Nu		
10. Lucrări publicate	276 lucrări ISI publicate, h=24 (WoS) h=24 (Scopus) h=28 (GS) citări – 2279 (WoS); 3055 (GS) citări independente – 1598 (WoS) Peste 500 lucrări la conferințe		
11. Membru al asociațiilor profesionale:	Senior member IEEE (din anul 2002) Membru ales al Comitetului de Administrație al IEEE Magnetics Society Președinte al IEEE Magnetics Society – Secțiunea România Membru al Societății Europene de Fizică și al Societății Române de Fizică Editor al IEEE Magnetics Letters (Impact Factor = 1.978, Article Influence Score = 0.772)		
12. Specializări și calificări:	Experiență în programarea calculatoarelor din 1976 Expert în Învățământ la Distanță (ID) Absolvent al unui curs de Management în ID la FernUniversitat, Germany.		
13. Experiența acumulată (inclusiv managerială) în alte programe/proiecte naționale/internaționale: (>3.500.000 EURO)			
Proiecte (tip)	Număr		
Naționale	35		
Internaționale	9		
Programul/Proiectul (selecție)	Funcția	Perioada	
Integrated platform for advanced studies in molecular nanotechnologies (AMON) Valoare totala: 4.050.000 RON	Director	2007-2009	
Static and dynamic characterization of magnetic moments in nanostructured media Valoare totală: 2.000.000 RON	Director	2007-2009	
Molecular Approach to Nanomagnets and Multifunctional Materials MAGMANet Network of Excellence – FP6	Responsabil	2005-2009	
14. Alte informații:			
Prof.dr. Alexandru STANCU, este recunoscut pentru rezultatele obținute în cercetarea științifică în domeniul magnetismului, al studiului fenomenelor neliniare cu histerezis, al sistemelor multiferoice, al modelării și simulării proceselor de polarizare în diverse sisteme feromagnetice sau feroelectrice. Este autorul a peste 275 lucrări cotate în sistemul ISI, având un indice Hirsch h=24. Aceste lucrări au fost citate de peste 1500 de ori (fără autocitări). A publicat și alte peste 100 de lucrări în reviste ne-cotate ISI sau volume ale unor conferințe internaționale. Este co-autor a peste 500 de prezentări la conferințe internaționale de prestigiu.			
Domenii de competență și rezultate semnificative, atât rezultate teoretice cât și rezultate practice Are contribuții semnificative în domeniul analizei materialelor feromagnetice prin utilizarea unor sisteme de câmpuri continue și alternative (susceptibilitate transversala, rezonanță feromagnetică) în sisteme de înregistrare magnetică. A abordat cu deosebit succes			

* Diplomă de merit. Media generală 10(zece) – 100%. Șef de promoție pe țară.

metoda curbilor de prima inversare (FORC – First-order Reversal Curves) pentru studiul interacțiunilor în mediile feromagnetice. A propus pentru prima dată în literatura de specialitate folosirea acestei metode în cazul materialelor feroelectrice și al materialelor cu tranziție de spin. Este recunoscut pentru perfecționarea acestei metode și elaborarea unui set de metode statistice de interpretare a rezultatelor experimentale. Are rezultate recunoscute internațional în domeniul modelării fizice (micromagnetice) și fenomenologice a sistemelor particulare, mai ales în domeniul modelării Preisach. Prin aplicarea modelului Preisach în cazul compușilor cu tranziție de spin analizați prin metoda diagramelor FORC a rezultat ideea existenței unor domenii în aceste materiale prin similaritate cu cele existente în feromagnetism. Aceasta ipoteză, dacă ar fi confirmată, ar putea conduce la evidențierea altor proprietăți ale acestor materiale, de exemplu la existența unui volum critic și a unei comportări mono-domenice. Rezultatele ar fi de excepțională importanță pentru posibilitatea obținerii unei nanostructuri care să comute între două stări de spin (low-spin și high-spin) prin acțiunea luminii, adică a unei memorii complet-optice în care și înregistrarea și citirea datelor se poate face doar prin acțiunea unor unde electromagnetice de frecvențe diferite.

Alte activități: Este referent la reviste de specialitate de prestigiu: Applied Physics Letters, Journal of Applied Physics, Journal of Magnetism and Magnetic Materials, IEEE Transactions on Magnetism, Journal of Physics – Condensed Matter, Nanotechnologies, European Physical Journal B, etc. Este organizatorul conferinței internaționale IEEE ROMSC (a 13-a ediție în 2016) și a fost în Comitetul Științific sau de Program al mai multor conferințe. A fost în Comitetul de program al prestigioasei conferințe INTERMAG (2008 - Madrid, Spania; 2009 Sacramento, SUA, 2012 Vancouver, Canada). A fost membru în comitetul de organizare a Școlii de Vară organizate de IEEE Magnetism Society (2008 - Colorado Springs, USA; 2009 - Nanjing, P.R. China, 2010 Dresda, Germania, 2011- New Orleans, SUA, 2012 – Chennai, India, 2013 – Assisi, Italia). A fost General Chairman al Simpozionului Internațional (a X-a ediție) HMM în 2015 (Iași-România).

Prof.dr. A. Stancu, a câștigat, începând cu anul 1990 un număr de peste 40 de contracte și granturi de cercetare, în valoare totală de aproximativ 3.500.000 EURO, în calitate de director, co-director sau responsabil din partea Universității. A fost keynote/invited speaker la mai multe conferințe (HMM 2009 – Washington DC, USA, MSCMP 2010 – MISC 2011 - Moscova Rusia, HMM2013 – Taormina Italia, MURPHYS 2014 – Berlin Germania, Lakeshore - FORC workshop 2015, 2016, SUA, IMRC 2016 Cancun Mexico, etc).

A coordonat mai multe structuri de cercetare și didactice pe parcursul activității sale. A fost șeful catedrei de Electricitate și Fizica Electronică (între 2000-2004) și al celei de Fizica Stării Solide și Fizică Teoretică (între 2004-2006). Este *directorul Centrului de Excelență CNCSIS – CARPATH* (Center for Applied Research in Physics and Advanced Technologies, acreditat în 2006) și al Platformei interdisciplinare CNCSIS – AMON (Interdisciplinary platform for advanced studies in molecular nanotechnologies). Centrul de excelență CARPATH a fost declarat de către ANCS ca Cel mai bun grup de cercetare din Universitățile din România în anul 2008.

A fost membru în Consiliul Științific al proiectului Strategiei Naționale de Cercetare pentru 2007-2013. Este reprezentantul Universității la Institutul European pentru Magnetism Molecular. Este președintele IEEE Magnetism Society – secțiunea România și membru ales în comitetul Administrativ al IEEE Magnetism Society. A fost președintele Diviziei de Fizica Stării Solide din cadrul Societății Române de Fizică. A fost vicepreședinte al Comisiei pentru Învățământ la Distanță a CNEAA (2000-2006).

A fost profesor invitat în Franța, Marea Britanie, Statele Unite, Japonia și Taiwan.

A primit Ordinul Merit în Educație în grad de cavaler în 2004

A primit Premiul Academiei Române Ștefan Procopiu în 2010

A coordonat 20 de teze de doctorat finalizate în calitate de conducător de doctorat (în paranteză anul susținerii):

1. (2003) Ion Dan BORCIA (în prezent la Brandenburg Univ. of Technology Cottbus – Senftenberg, Germania – lucrează în cercetare științifică)
2. (2004) Dorin CIMPOEȘU (în prezent lect.dr. la Facultatea de Fizică a UAIC)
3. (2004) Cristian ENĂCHESCU (în prezent conf.dr. la Facultatea de Fizică a UAIC, conducător de doctorat în fizică)
4. (2005) Claudiu VERDEȘ (în prezent lucrează în domeniul privat – în informatică financiară, Londra, Marea Britanie)
5. (2007) Petronel POSTOLACHE (în prezent lect.dr. la Facultatea de Fizică a UAIC)
6. (2007) Cristina FEDOR-CIOMAGA (în prezent CSIII.dr. la Facultatea de Fizică a UAIC)
7. (2007) Radu TANASĂ (în prezent lect.dr. la Facultatea de Fizică a UAIC și postdoc la Cambridge University)
8. (2006) Dan RICINSCHI (în prezent cercetător științific și Profesor Asociat la Tokyo Institute of Technology)
9. (2009) Cristina OLARIU (în prezent cercetător științific la firma CONTINENTAL – Iași)
10. (2009) Aurelian ROTARU (în prezent conf.dr. la Universitatea din Suceava)
11. (2010) Ilie BODALE (în prezent asist.dr. suplinitor la Universitatea Agronomică Ion Ionescu de la Brad, Iași)
12. (2011) Iulian PETRILA (în prezent lect.dr. la Facultatea de Automatizări Calculatoare – Universitatea Tehnică Gheorghe Asachi din Iași)
13. (2011) Irina URSACHI (în prezent cercetător științific la Facultatea de Fizică a UAIC)
14. (2011) Ovidiu CHIȘCAN (în prezent laborant și cercetător științific la Facultatea de Fizică a UAIC)
15. (2011) Cristian ROTĂRESCU (în prezent CS.dr. la Institutul Național de Cercetare-Dezvoltare în Fizică Tehnică IFT Iași)
16. (2012) Costin-Ionuț DOBROTĂ (în prezent profesor de fizică la Colegiul Național Dimitrie Cantemir din Onești)
17. (2012) Eugen ONICIUC (în prezent cercetător științific la firma CONTINENTAL – Iași)
18. (2013) Ciprian PÎNZARU (în prezent inginer de sistem – responsabil cu supercomputerul UAIC, Departamentul de Comunicații și Date)
19. (2012) Alin LUNGU (în prezent profesor de fizică la Colegiul Național Mihai Eminescu din Botoșani)
20. (2015) Mihai NICA (în prezent cercetător științific la firma CONTINENTAL – Iași)

A co-participat la coordonarea activităților doctorale:

1. (1998) Leonard SPÎNU (în prezent profesor la Universitatea din New Orleans și Program Director – NSF, SUA, Ph.D. adviser)
2. (1999) Cristian PĂPUȘOI (în prezent Senior Principal Engineer la Western Digital, SUA)
3. (2001) Laurențiu STOLERIU (în prezent conf.dr. la Facultatea de Fizică a UAIC, conducător de doctorat în fizică)
4. (2001) Mihai CERCHEZ (în prezent Priv.Doiz. dr. la Heinrich-Heine-Universität Düsseldorf, Germania, Ph.D. adviser)

A coordonat lucrări de licență și/sau de masterat:

1. Irinel CHIORESCU (doctorat în Franța, în prezent profesor la Florida State University, Ph.D. adviser)
 2. Petru ANDREI (doctorat în SUA, în prezent profesor la FAMU-Florida State University, Ph.D. adviser)
 3. Nicoleta HICKMAN (doctorat în SUA, în prezent Associate Professor la Florida Solar Energy Center)
 4. Liviu CLIME (doctorat în Canada, în prezent cercetător științific la National Research Council of Canada)
 5. Ioan TUDOSĂ (doctorat în SUA, în prezent cercetător la Stanford University)
 6. Dan MAZILU (doctorat în SUA, în prezent Associate Professor of Physics la Washington and Lee University)
 7. Mariana UNGUREANU (doctorat în Franța, în prezent cercetător științific la CIC biomaGUNE, San Sebastian, Spania)
 8. Andrei DIACONU (doctorat în SUA, în prezent lect.dr. la Universitatea din Suceava)
 9. Veronica GOIAN (doctorat în Republica Cehă, în prezent postdoc la Institutul de Fizică al Academiei de Științe a Republicii Ceha)
 10. Mihai DIMIAN (doctorat în SUA, în prezent prof.dr. la Universitatea din Suceava)
 11. Mariana PAVEL (doctorat la Univ. Cambridge, Marea Britanie)
 12. Marian FECIORU-MORARIU (doctorat în Germania)
 13. Florin CIUBOTARU (doctorat în Germania, în prezent la IMEC International, Belgia)
 14. Andrei PLAMADĂ (doctorat în Elveția)
 15. Ana Maria BALAN (doctorat în Elveția, în prezent la IFT Iași)
 16. Albert CĂSĂNDRUC (doctorat în Germania)
 17. Eliza CĂSĂNDRUC (doctorat în Germania)
 18. Tudor CHIRILĂ (doctorat în Germania)
 19. Anca PĂDURARIU JENSEN (doctorat în Danemarca)
 20. Paul ARDELEANU (doctorat în Marea Britanie)
- Etc.

A coordonat activitatea următorilor cercetători postdoctorali:

1. Cristian ENĂCHESCU (în prezent conf.dr. la Facultatea de Fizică a UAIC, conducător de doctorat în fizică)
2. Ioan DUMITRU (în prezent conf.dr. la Facultatea de Fizică a UAIC)
3. Iordana AȘTEFĂNOAEI (în prezent lect.dr. la Facultatea de Fizică a UAIC)
4. Petronel POSTOLACHE (în prezent lect.dr. la Facultatea de Fizică a UAIC)
5. Tiberiu SALAORU (în prezent profesor de fizică)
6. Florica MĂȚĂU (în prezent cercetător științific la Departamentul Interdisciplinar al UAIC)
7. Valentin NICA (în prezent asist.dr. la Facultatea de Fizică a UAIC și postdoc în Germania)
8. Alin APETREI (în prezent cercetător științific la Departamentul Interdisciplinar al UAIC)
9. Dorin CIMPOEȘU (în prezent lect.dr. la Facultatea de Fizică a UAIC)
10. Ilie BODALE (în prezent asist.dr. suplinitor la Universitatea Agronomică Ion Ionescu de la Brad, Iași)

Publicații (selecție de 50 de lucrări, cu caractere bold doctoranzii după anul 2011)

Record 1 of 150

Title: Matrix-assisted relaxation in Fe(phen)(2)(NCS)(2) spin-crossover microparticles, experimental and theoretical investigations
Author(s): Enachescu, C (Enachescu, Cristian); Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Tissot, A (Tissot, Antoine); Laisney, J (Laisney, Jerome); Boillot, ML (Boillot, Marie-Laure)
Source: APPLIED PHYSICS LETTERS Volume: 109 Issue: 3 Article Number: 031908 DOI: 10.1063/1.4959262 Published: JUL 18 2016
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 2 of 150

Title: Elastically driven cooperative response of a molecular material impacted by a laser pulse
Author(s): Bertoni, R (Bertoni, Roman); Lorenc, M (Lorenc, Maciej); Cailleau, H (Cailleau, Herve); Tissot, A (Tissot, Antoine); Laisney, J (Laisney, Jerome); Boillot, ML (Boillot, Marie-Laure); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Enachescu, C (Enachescu, Cristian); Collet, E (Collet, Eric)
Source: NATURE MATERIALS Volume: 15 Issue: 6 Pages: 606-+ DOI: 10.1038/NMAT4606 Published: JUN 2016
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 3 of 150

Title: FORC diagram study of magnetostatic interactions in 2D longitudinal arrays of magnetic wires
Author(s): **Nica, M (Nica, Mihai)**; Stancu, A (Stancu, Alexandru)
Source: PHYSICA B-CONDENSED MATTER Volume: 475 Pages: 73-79 DOI: 10.1016/j.physb.2015.07.001 Published: OCT 15 2015
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 4 of 150

Title: Kinetic effects on double hysteresis in spin crossover molecular magnets analyzed with first order reversal curve diagram technique
Author(s): Stan, RM (Stan, Raluca-Maria); Gaina, R (Gaina, Roxana); Enachescu, C (Enachescu, Cristian); Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Bronisz, R (Bronisz, Robert)
Source: JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 17 Article Number: 17B323 DOI: 10.1063/1.4918961 Published: MAY 7 2015
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 5 of 150

Title: Analysis of first order reversal curves in the thermal hysteresis of spin-crossover nanoparticles within the mechanoelastic model
Author(s): Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Chakraborty, P (Chakraborty, Pradip); Hauser, A (Hauser, Andreas); Enachescu, C (Enachescu, Cristian)
Source: JOURNAL OF APPLIED PHYSICS Volume: 117 Issue: 17 Article Number: 17B307 DOI: 10.1063/1.4914953 Published: MAY 7 2015
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 6 of 150

Title: Tracking the individual magnetic wires' switchings in ferromagnetic nanowire arrays using the first-order reversal curves (FORC) diagram method
Author(s): **Dobrota, CI (Dobrota, Costin-Ionut)**; Stancu, A (Stancu, Alexandru)
Source: PHYSICA B-CONDENSED MATTER Volume: 457 Pages: 280-286 DOI: 10.1016/j.physb.2014.10.006 Published: JAN 15 2015
Times Cited in Web of Science Core Collection: 8
Total Times Cited: 8

Record 7 of 150

Title: Study of spin crossover nanoparticles thermal hysteresis using FORC diagrams on an Ising-like model
Author(s): Atitoaie, A (Atitoaie, Alexandru); Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Enachescu, C (Enachescu, Cristian)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 368 Pages: 12-18 DOI: 10.1016/j.jmmm.2014.04.054
Published: NOV 2014
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

Record 8 of 150

Title: Micromagnetic Evaluation of Size Effects on the Critical Curves of Synthetic Antiferromagnetic Structures
Author(s): **Pinzaru, C (Pinzaru, Ciprian)**; Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 50 Issue: 7 Article Number: 7100405 DOI: 10.1109/TMAG.2014.2304916 Part: 2
Published: JUL 2014
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 9 of 150

Title: Oscillation synchronization in a linear chain of interacting single-domain ferromagnetic particles
Author(s): **Lungu, AC (Lungu, Alin-Cristian)**; Stancu, A (Stancu, Alexandru)
Source: PHYSICA B-CONDENSED MATTER Volume: 444 Pages: 106-114 DOI: 10.1016/j.physb.2014.03.058 Published: JUL 1 2014
Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Record 10 of 150

Title: Effect of damping on the laser induced ultrafast switching in rare earth-transition metal alloys
Author(s): **Oniciuc, E (Oniciuc, Eugen)**; Stoleriu, L (Stoleriu, Laurentiu); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru)
Source: APPLIED PHYSICS LETTERS Volume: 104 Issue: 22 Article Number: 222404 DOI: 10.1063/1.4881135 Published: JUN 2 2014
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 11 of 150

Title: Controlling temperature in magnetic hyperthermia with low Curie temperature particles
Author(s): Astefanoaei, I (Astefanoaei, Iordana); Dumitru, I (Dumitru, Ioan); Chiriac, H (Chiriac, Horia); Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF APPLIED PHYSICS Volume: 115 Issue: 17 Article Number: 17B531 DOI: 10.1063/1.4868709 Published: MAY 7 2014
Times Cited in Web of Science Core Collection: 4
Total Times Cited: 4

Record 12 of 150

Title: A thermo-fluid analysis in magnetic hyperthermia
Author(s): Astefanoaei, I (Astefanoaei, Iordana); Dumitru, I (Dumitru, Ioan); Stancu, A (Stancu, Alexandru); Chiriac, H (Chiriac, Horia)
Source: CHINESE PHYSICS B Volume: 23 Issue: 4 Article Number: 044401 DOI: 10.1088/1674-1056/23/4/044401 Published: APR 2014
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 13 of 150

Title: LLB simulation of the temperature dependent switching critical curve of a Stoner-Wohlfarth macrospin in the presence of a polarized current
Author(s): **Oniciuc, E (Oniciuc, E.)**; Stoleriu, L (Stoleriu, L.); Stancu, A (Stancu, A.)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 352 Pages: 99-106 DOI: 10.1010/j.jmmm.2013.10.001
Published: FEB 2014
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 14 of 150

Title: Hysteretic behavior of Fe(phen)(2)(NCS)(2) spin-transition microparticles vs. the environment: A huge reversible component resolved by first order reversal curves
Author(s): Tanasa, R (Tanasa, Radu); Laisney, J (Laisney, Jerome); Stancu, A (Stancu, Alexandru); Boillot, ML (Boillot, Marie-Laure); Enachescu, C (Enachescu, Cristian)
Source: APPLIED PHYSICS LETTERS Volume: 104 Issue: 3 Article Number: 031909 DOI: 10.1063/1.4862748 Published: JAN 20 2014
Times Cited in Web of Science Core Collection: 9
Total Times Cited: 9

Record 15 of 150

Title: Generalized Stoner-Wohlfarth model accurately describing the switching processes in pseudo-single ferromagnetic particles
Author(s): Cimpoesu, D (Cimpoesu, Dorin); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF APPLIED PHYSICS Volume: 114 Issue: 22 Article Number: 223901 DOI: 10.1063/1.4839895 Published: DEC 14 2013
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 3

Record 16 of 150

Title: Magnetization reversal in triangular L1(0)-FePt nanoislands
Author(s): Markou, A (Markou, A.); Beltsios, KG (Beltsios, K. G.); Gergidis, LN (Gergidis, L. N.); Panagiotopoulos, I (Panagiotopoulos, I.); Bakas, T (Bakas, T.); Ellinas, K (Ellinas, K.); Tserepi, A (Tserepi, A.); Stoleriu, L (Stoleriu, L.); Tanasa, R (Tanasa, R.); Stancu, A (Stancu, A.)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 344 Pages: 224-229 DOI: 10.1016/j.jmmm.2013.06.009
Published: OCT 2013
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 17 of 150

Title: Reversible Magnetization Processes Evaluation Using High-Order Magnetization Curves
Author(s): **Bodale, I (Bodale, Ilie)**; Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 49 Issue: 9 Pages: 4960-4964 DOI: 10.1109/TMAG.2013.2259181 Published: SEP 2013
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 18 of 150

Title: Angular resonant absorption curves in magnetic nanowire arrays
Author(s): Cimpoesu, D (Cimpoesu, Dorin); Ding, JJ (Ding, Junjia); Stoleriu, L (Stoleriu, Laurentiu); Adeyeye, A (Adeyeye, Adekunle); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
Source: APPLIED PHYSICS LETTERS Volume: 102 Issue: 23 Article Number: 232401 DOI: 10.1063/1.4810758 Published: JUN 10 2013
Times Cited in Web of Science Core Collection: 2

Total Times Cited: 2

Record 19 of 150

Title: Linear/Nonlinear Regime Limit in AC/DC Magnetic Field Measurements
Author(s): **Lungu, AC (Lungu, Alin Cristian)**; Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 49 Issue: 6 Pages: 2858-2864 DOI: 10.1109/TMAG.2012.2237410 Part: 2
Published: JUN 2013
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 20 of 150

Title: Physical study of the Cucuteni pottery technology
Author(s): Matau, F (Matau, Florica); Nica, V (Nica, Valentin); Postolache, P (Postolache, Petronel); **Ursachi, I (Ursachi, Irina)**; Cotiuga, V (Cotiuga, Vasile); Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF ARCHAEOLOGICAL SCIENCE Volume: 40 Issue: 2 Pages: 914-925 DOI: 10.1016/j.jas.2012.08.021 Published: FEB 2013
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 4

Record 21 of 150

Title: What does a first-order reversal curve diagram really mean? A study case: Array of ferromagnetic nanowires
Author(s): **Dobrota, CI (Dobrota, Costin-Ionut)**; Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF APPLIED PHYSICS Volume: 113 Issue: 4 Article Number: 043928 DOI: 10.1063/1.4789613 Published: JAN 28 2013
Times Cited in Web of Science Core Collection: 29
Total Times Cited: 29

Record 22 of 150

Title: Mean field model for ferromagnetic nanowire arrays based on a mechanical analogy
Author(s): **Dobrota, CI (Dobrota, Costin-Ionut)**; Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 25 Issue: 3 Article Number: 035302 DOI: 10.1088/0953-8984/25/3/035302
Published: JAN 23 2013
Times Cited in Web of Science Core Collection: 7
Total Times Cited: 7

Record 23 of 150

Title: Dynamic phase transitions in the one-dimensional spin-phonon coupling model
Author(s): Apetrei, AM (Apetrei, Alin Marian); Boukheddaden, K (Boukheddaden, Kamel); Stancu, A (Stancu, Alexandru)
Source: PHYSICAL REVIEW B Volume: 87 Issue: 1 Article Number: 014302 DOI: 10.1103/PhysRevB.87.014302 Published: JAN 17 2013
Times Cited in Web of Science Core Collection: 4
Total Times Cited: 4

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Title: Landau-Lifshitz-Bloch-Slonczewski simulations of the spin-transfer-torque driven magnetization switching assisted by Joule heating
Author(s): **Oniciuc, E (Oniciuc, Eugen)**; Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)
Source: APPLIED PHYSICS LETTERS Volume: 102 Issue: 2 Article Number: 022405 DOI: 10.1063/1.4775682 Published: JAN 14 2013
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 25 of 150

Title: PKP simulation of size effect on interaction field distribution in highly ordered ferromagnetic nanowire arrays
Author(s): **Dobrota, CI (Dobrota, Costin-Ionut)**; Stancu, A (Stancu, Alexandru)
Source: PHYSICA B-CONDENSED MATTER Volume: 407 Issue: 24 Pages: 4676-4685 DOI: 10.1016/j.physb.2012.08.041 Published: DEC 15 2012
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

Record 26 of 150

Title: Monte Carlo Metropolis study of cluster evolution in spin-crossover solids within the framework of a mechanoelastic model
Author(s): Enachescu, C (Enachescu, Cristian); Nishino, M (Nishino, Masamichi); Miyashita, S (Miyashita, Seiji); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)
Source: PHYSICAL REVIEW B Volume: 86 Issue: 5 Article Number: 054114 DOI: 10.1103/PhysRevB.86.054114 Published: AUG 20 2012
Times Cited in Web of Science Core Collection: 17
Total Times Cited: 17

Record 27 of 150

Title: Magnetic alpha-Fe₂O₃/MCM-41 nanocomposites: Preparation, characterization, and catalytic activity for methylene blue degradation
Author(s): **Ursachi, I (Ursachi, Irina)**; Stancu, A (Stancu, Alexandru); Vasile, A (Vasile, Aurelia)
Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE Volume: 377 Pages: 184-190 DOI: 10.1016/j.jcis.2012.03.066 Published: JUL 1 2012
Times Cited in Web of Science Core Collection: 20

Total Times Cited: 20

Record 28 of 150

Title: Micromagnetic analysis of switching and domain structure in amorphous metallic nanowires
Author(s): Stoleriu, L (Stoleriu, Laurentiu); **Pinzaru, C (Pinzaru, Ciprian)**; Stancu, A (Stancu, Alexandru)
Source: APPLIED PHYSICS LETTERS Volume: 100 Issue: 12 Article Number: 122404 DOI: 10.1063/1.3696046 Published: MAR 19 2012
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

Record 29 of 150

Title: PVC/Fe electrospun nanofibers for high frequency applications
Author(s): **Chiscan, O (Chiscan, Ovidiu)**; Dumitru, I (Dumitru, Ioan); Tura, V (Tura, Vasile); Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF MATERIALS SCIENCE Volume: 47 Issue: 5 Pages: 2322-2327 DOI: 10.1007/s10853-011-6047-x Published: MAR 2012
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 30 of 150

Title: Experimental and Micromagnetic First-Order Reversal Curves Analysis in [Ni-Fe/Zn/Co-Ni-N/Ni-Mn] Spin Valves
Author(s): Pascariu, P (Pascariu, P.); Postolache, P (Postolache, P.); Stancu, A (Stancu, A.); Georgescu, V (Georgescu, V.)
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 25 Issue: 2 Pages: 481-486 DOI: 10.1007/s10948-011-1304-4 Published: FEB 2012
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 1

Record 31 of 150

Title: Electrospun PVC/Fe₃O₄ composite nanofibers for microwave absorption applications
Author(s): **Chiscan, O (Chiscan, Ovidiu)**; Dumitru, I (Dumitru, Ioan); Postolache, P (Postolache, Petronel); Tura, V (Tura, Vasile); Stancu, A (Stancu, Alexandru)
Source: MATERIALS LETTERS Volume: 68 Pages: 251-254 DOI: 10.1016/j.matlet.2011.10.084 Published: FEB 1 2012
Times Cited in Web of Science Core Collection: 8
Total Times Cited: 8

Record 32 of 150

Title: Asymmetries influence on critical curves of the synthetic antiferromagnetic structures in magnetic random access memory
Author(s): **Petrila, I (Petrila, Iulian)**; Stancu, A (Stancu, Alexandru)
Source: COMPUTATIONAL MATERIALS SCIENCE Volume: 51 Issue: 1 Pages: 122-126 DOI: 10.1016/j.commatsci.2011.07.020 Published: JAN 2012
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

Record 33 of 150

Title: Magnetic properties of magnetite nanoparticles coated with mesoporous silica by sonochemical method
Author(s): **Ursachi, I (Ursachi, Irina)**; Vasile, A (Vasile, Aurelia); Chiriac, H (Chiriac, Horia); Postolache, P (Postolache, Petronel); Stancu, A (Stancu, Alexandru)
Source: MATERIALS RESEARCH BULLETIN Volume: 46 Issue: 12 Pages: 2468-2473 DOI: 10.1016/j.materresbull.2011.08.033 Published: DEC 2011
Times Cited in Web of Science Core Collection: 12
Total Times Cited: 12

Record 34 of 150

Title: Size effect in spin-crossover systems investigated by FORC measurements, for surfacted [Fe(NH₂-trz)(3)](Br)(2)center dot 3H(2)O nanoparticles: reversible contributions and critical size
Author(s): Rotaru, A (Rotaru, A.); Varret, F (Varret, F.); Gindulescu, A (Gindulescu, A.); Linares, J (Linares, J.); Stancu, A (Stancu, A.); Letard, JF (Letard, J. F.); Forestier, T (Forestier, T.); Etrillard, C (Etrillard, C.)
Source: EUROPEAN PHYSICAL JOURNAL B Volume: 84 Issue: 3 Pages: 439-449 DOI: 10.1140/epjb/e2011-10903-x Published: DEC 2011
Times Cited in Web of Science Core Collection: 29
Total Times Cited: 29

Record 35 of 150

Title: Ultrasonic-assisted synthesis and magnetic studies of iron oxide/MCM-41 nanocomposite
Author(s): **Ursachi, I (Ursachi, Irina)**; Vasile, A (Vasile, Aurelia); Ianculescu, A (Ianculescu, Adelina); Vasile, E (Vasile, Eugeniu); Stancu, A (Stancu, Alexandru)
Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 130 Issue: 3 Pages: 1251-1259 DOI: 10.1016/j.matchemphys.2011.09.004 Published: NOV 1 2011
Times Cited in Web of Science Core Collection: 16
Total Times Cited: 19

Record 36 of 150

Title: High Frequency Absorption of PVC/Iron Oxides and PVC/CoFe₂O₄/CoO Nanofibers Produced by Electrospinning Technique

Author(s): **Chiscan, O (Chiscan, Ovidiu)**; Dumitru, I (Dumitru, Ioan); Tura, V (Tura, Vasile); Chiriac, H (Chiriac, Horia); Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 47 Issue: 11 Pages: 4511-4516 DOI: 10.1109/TMAG.2011.2158109 Published: NOV 2011
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

Record 37 of 150

Title: Deterministic and non-deterministic switching in chains of magnetic hysteron
Author(s): Tanasa, R (Tanasa, R.); Stancu, A (Stancu, A.)
Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 23 Issue: 42 Article Number: 426002 DOI: 10.1088/0953-8984/23/42/426002 Published: OCT 26 2011
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

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Title: Interactions and reversal-field memory in complex magnetic nanowire arrays
Author(s): Rotaru, A (Rotaru, Aurelian); Lim, JH (Lim, Jin-Hee); Lenormand, D (Lenormand, Denny); Diaconu, A (Diaconu, Andrei); Wiley, JB (Wiley, John. B.); Postolache, P (Postolache, Petronel); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
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Times Cited in Web of Science Core Collection: 21
Total Times Cited: 21

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Title: Thermal hysteresis in spin-crossover compounds studied within the mechanoelastic model and its potential application to nanoparticles
Author(s): Stoleriu, L (Stoleriu, Laurentiu); Chakraborty, P (Chakraborty, Pradip); Hauser, A (Hauser, Andreas); Stancu, A (Stancu, Alexandru); Enachescu, C (Enachescu, Cristian)
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Times Cited in Web of Science Core Collection: 35
Total Times Cited: 35

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Title: Dynamic and temperature effects in microwave assisted switching: Evidence of chaotic macrospin dynamics
Author(s): Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru)
Source: APPLIED PHYSICS LETTERS Volume: 99 Issue: 13 Article Number: 132503 DOI: 10.1063/1.3640230 Published: SEP 26 2011
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

Record 41 of 150

Title: Linear and non-linear energy barriers in systems of interacting single-domain ferromagnetic particles
Author(s): **Petrila, I (Petrila, Iulian)**; **Bodale, I (Bodale, Ilie)**; **Rotarescu, C (Rotarescu, Cristian)**; Stancu, A (Stancu, Alexandru)
Source: PHYSICS LETTERS A Volume: 375 Issue: 39 Pages: 3478-3482 DOI: 10.1016/j.physleta.2011.08.007 Published: SEP 12 2011
Times Cited in Web of Science Core Collection: 8
Total Times Cited: 8

Record 42 of 150

Title: Analytical description of a system of two interacting identical uniaxial ferromagnetic particles
Author(s): **Petrila, I (Petrila, Iulian)**; Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF APPLIED PHYSICS Volume: 110 Issue: 4 Article Number: 043923 DOI: 10.1063/1.3626465 Published: AUG 15 2011
Times Cited in Web of Science Core Collection: 6
Total Times Cited: 6

Record 43 of 150

Title: Pressure effect investigated with first-order reversal-curve method on the spin-transition compounds $[\text{FexZn}_{1-x}(\text{btr})_2(\text{NCS})_2] \cdot \text{H}_2\text{O}$ ($x=0.6,1$)
Author(s): Rotaru, A (Rotaru, Aurelian); Linares, J (Linares, Jorge); Varret, F (Varret, Francois); Codjovi, E (Codjovi, Epiphane); Slimani, A (Slimani, Ahmed); Tanasa, R (Tanasa, Radu); Enachescu, C (Enachescu, Cristian); Stancu, A (Stancu, Alexandru); Haasnoot, J (Haasnoot, Jaap)
Source: PHYSICAL REVIEW B Volume: 83 Issue: 22 Article Number: 224107 DOI: 10.1103/PhysRevB.83.224107 Published: JUN 23 2011
Times Cited in Web of Science Core Collection: 15
Total Times Cited: 15

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Title: Magnetization reversal in $[\text{Ni}/\text{Pt}](6)/[\text{Pt}(x)/\text{Co}/\text{Pt}](6)$ multilayers
Author(s): Siadou, N (Siadou, N.); Androutsopoulos, M (Androutsopoulos, M.); Panagiotopoulos, I (Panagiotopoulos, I.); Stoleriu, L (Stoleriu, L.); Stancu, A (Stancu, A.); Bakas, T (Bakas, T.); Alexandrakakis, V (Alexandrakis, V.)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 323 Issue: 12 Pages: 1671-1677 DOI: 10.1016/j.jmmm.2011.01.035 Published: JUN 2011
Times Cited in Web of Science Core Collection: 7
Total Times Cited: 7

Record 45 of 150

Title: Cluster analysis of an Ising-Preisach interacting particle system

Author(s): **Rotarescu, C (Rotarescu, Cristian); Petrila, I (Petrila, Iulian);** Stancu, A (Stancu, Alexandru)

Source: PHYSICA B-CONDENSED MATTER Volume: 406 Issue: 11 Pages: 2177-2181 DOI: 10.1016/j.physb.2011.03.026 Published: MAY 15 2011

Times Cited in Web of Science Core Collection: 3

Total Times Cited: 3

Record 46 of 150

Title: Analytical ferromagnetic hysteresis with various anisotropies

Author(s): **Petrila, I (Petrila, Iulian);** Stancu, A (Stancu, Alexandru)

Source: JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 8 Article Number: 083937 DOI: 10.1063/1.3579447 Published: APR 15 2011

Times Cited in Web of Science Core Collection: 7

Total Times Cited: 7

Record 47 of 150

Title: Thermally activated transitions in a system of two single domain ferromagnetic particles

Author(s): Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Klik, I (Klik, Ivo); Chang, CR (Chang, Ching-Ray); Spinu, L (Spinu, Leonard)

Source: JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 7 Article Number: 07D339 DOI: 10.1063/1.3562884 Published: APR 1 2011

Times Cited in Web of Science Core Collection: 2

Total Times Cited: 2

Record 48 of 150

Title: Study of the relaxation in diluted spin crossover molecular magnets in the framework of the mechano-elastic model

Author(s): Enachescu, C (Enachescu, Cristian); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Hauser, A (Hauser, Andreas)

Source: JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 7 Article Number: 07B111 DOI: 10.1063/1.3556702 Published: APR 1 2011

Times Cited in Web of Science Core Collection: 5

Total Times Cited: 5

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Title: Magnetic trap effects on nanowire's dynamics within micro-capillary vessels

Author(s): Pavel, M (Pavel, Mariana); Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru)

Source: MICROFLUIDICS AND NANOFUIDICS Volume: 10 Issue: 3 Pages: 579-591 DOI: 10.1007/s10404-010-0691-3 Published: MAR 2011

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Record 50 of 150

Title: Analytical vector generalization of the classical Stoner-Wohlfarth hysteron

Author(s): **Petrila, I (Petrila, Iulian); Stancu, A (Stancu, Alexandru)**

Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 23 Issue: 7 Article Number: 076002 DOI: 10.1088/0953-8984/23/7/076002 Published: FEB 23 2011

Times Cited in Web of Science Core Collection: 13

Total Times Cited: 13

Record 51 of 150

Title: Hysteresis characteristics of an analytical vector hysteron

Author(s): **Petrila, I (Petrila, Iulian);** Stancu, A (Stancu, Alexandru)

Source: PHYSICA B-CONDENSED MATTER Volume: 406 Issue: 4 Pages: 906-910 DOI: 10.1016/j.physb.2010.12.025 Published: FEB 15 2011

Times Cited in Web of Science Core Collection: 7

Total Times Cited: 7

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Title: Reversible and Irreversible Components Evaluation in Hysteretic Processes Using First and Second-Order Magnetization Curves

Author(s): **Bodale, I (Bodale, Ilie);** Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)

Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 47 Issue: 1 Pages: 192-197 DOI: 10.1109/TMAG.2010.2083679 Part: 2 Published: JAN 2011

Times Cited in Web of Science Core Collection: 7

Total Times Cited: 7

Record 53 of 150

Title: Competition between photoexcitation and relaxation in spin-crossover complexes in the frame of a mechanoelastic model

Author(s): Enachescu, C (Enachescu, Cristian); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Hauser, A (Hauser, Andreas)

Source: PHYSICAL REVIEW B Volume: 82 Issue: 10 Article Number: 104114 DOI: 10.1103/PhysRevB.82.104114 Published: SEP 21 2010

Times Cited in Web of Science Core Collection: 14

Total Times Cited: 14

Record 54 of 150

Title: Monte Carlo simulations of phase transitions and lattice dynamics in an atom-phonon model for spin transition compounds

Author(s): Apetrei, AM (Apetrei, Alin Marian); Enachescu, C (Enachescu, Cristian); Tanasa, R (Tanasa, Radu); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)
Source: PHYSICA B-CONDENSED MATTER Volume: 405 Issue: 17 Pages: 3673-3678 DOI: 10.1016/j.physb.2010.05.063 Published: SEP 1 2010
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 55 of 150

Title: Cluster evolution in spin crossover systems observed in the frame of a mechano-elastic model
Author(s): Enachescu, C (Enachescu, C.); Nishino, M (Nishino, M.); Miyashita, S (Miyashita, S.); Hauser, A (Hauser, A.); Stancu, A (Stancu, A.); Stoleriu, L (Stoleriu, L.)
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Times Cited in Web of Science Core Collection: 33
Total Times Cited: 33

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Title: Realistic Reversible Magnetization Component in Preisach-Type Models
Author(s): Stoleriu, L (Stoleriu, Laurentiu); **Bodale, I (Bodale, Ilie)**; Apetrei, A (Apetrei, Alin); Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 46 Issue: 6 Pages: 2341-2344 DOI: 10.1109/TMAG.2010.2045643 Published: JUN 2010
Times Cited in Web of Science Core Collection: 4
Total Times Cited: 4

Record 57 of 150

Title: Activation energy and switching behavior of two interacting identical magnetic particles
Author(s): Plamada, AV (Plamada, Andrei-Valentin); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru)
Source: APPLIED PHYSICS LETTERS Volume: 96 Issue: 12 Article Number: 122505 DOI: 10.1063/1.3339874 Published: MAR 22 2010
Times Cited in Web of Science Core Collection: 4
Total Times Cited: 4

Record 58 of 150

Title: Saturation Curve for a Synthetic Antiferromagnetic System
Author(s): Olariu, CS (Olariu, Cristina Stefania); Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 45 Issue: 12 Pages: 5266-5270 DOI: 10.1109/TMAG.2009.2023118 Published: DEC 2009
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 59 of 150

Title: Ising-like model study of size dependence relaxation in spin crossover complexes
Author(s): Dobrinescu, A (Dobrinescu, Alexandra); Enachescu, C (Enachescu, Cristian); Stancu, A (Stancu, Alexandru)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 321 Issue: 24 Pages: 4132-4138 DOI: 10.1016/j.jmmm.2009.08.017 Published: DEC 2009
Times Cited in Web of Science Core Collection: 10
Total Times Cited: 10

Record 60 of 150

Title: Dynamic critical curve of a synthetic antiferromagnet
Author(s): Pham, H (Pham, Huy); Cimpoesu, D (Cimpoesu, Dorin); Plamada, AV (Plamada, Andrei-Valentin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
Source: APPLIED PHYSICS LETTERS Volume: 95 Issue: 22 Article Number: 222513 DOI: 10.1063/1.3265739 Published: NOV 30 2009
Times Cited in Web of Science Core Collection: 4
Total Times Cited: 4

Record 61 of 150

Title: Ferromagnetic Nanoparticles Dose Based on Tumor Size in Magnetic Fluid Hyperthermia Cancer Therapy
Author(s): Pavel, M (Pavel, M.); Stancu, A (Stancu, A.)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 45 Issue: 11 Pages: 5251-5254 DOI: 10.1109/TMAG.2009.2031076 Published: NOV 2009
Times Cited in Web of Science Core Collection: 11
Total Times Cited: 11

Record 62 of 150

Title: Energy Surface Analysis and Critical Points of a Symmetric Synthetic Antiferromagnet
Author(s): Plamada, AV (Plamada, Andrei-Valentin); Stancu, A (Stancu, Alexandru)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 45 Issue: 10 Special Issue: SI Pages: 3796-3799 DOI: 10.1109/TMAG.2009.2022275 Published: OCT 2009
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 63 of 150

Title: Study of the Optimum Injection Sites for a Multiple Metastases Region in Cancer Therapy by Using MFH
Author(s): Pavel, M (Pavel, M.); Stancu, A (Stancu, A.)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 45 Issue: 10 Special Issue: SI Pages: 4825-4828 DOI: 10.1109/TMAG.2009.2024543 Published: OCT 2009
Times Cited in Web of Science Core Collection: 13
Total Times Cited: 13

Record 64 of 150

Title: Calorimetric measurements of diluted spin crossover complexes $[\text{FeM}_{1-x}(\text{btr})_x(\text{NCS})_2] \cdot \text{H}_2\text{O}$ with $\text{M-II} = \text{Zn}$ and Ni
Author(s): Rotaru, A (Rotaru, Aurelian); Dirtu, MM (Dirtu, Marinela M.); Enachescu, C (Enachescu, Cristian); Tanasa, R (Tanasa, Radu); Linares, J (Linares, Jorge); Stancu, A (Stancu, Alexandru); Garcia, Y (Garcia, Yann)
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Times Cited in Web of Science Core Collection: 17
Total Times Cited: 17

Record 65 of 150

Title: Hydrostatic pressure investigation of the spin crossover compound $[\text{Fe}(\text{PM-BiA})_2(\text{NCS})_2]$ polymorph I using reflectance detection
Author(s): Rotaru, A (Rotaru, Aurelian); Varret, F (Varret, Francois); Codjovi, E (Codjovi, Epiphane); Boukheddaden, K (Boukheddaden, Kamel); Linares, J (Linares, Jorge); Stancu, A (Stancu, Alexandru); Guionneau, P (Guionneau, Philippe); Letard, JF (Letard, Jean-Francois)
Source: JOURNAL OF APPLIED PHYSICS Volume: 106 Issue: 5 Article Number: 053515 DOI: 10.1063/1.3202385 Published: SEP 1 2009
Times Cited in Web of Science Core Collection: 10
Total Times Cited: 10

Record 66 of 150

Title: Re-entrance phase and excited metastable electronic spin states in one-dimensional spin crossover compounds explained by atom-phonon coupling model
Author(s): Rotaru, A (Rotaru, Aurelian); Linares, J (Linares, Jorge); Mordelet, S (Mordelet, Sebastien); Stancu, A (Stancu, Alexandru); Nasser, J (Nasser, Jamil)
Source: JOURNAL OF APPLIED PHYSICS Volume: 106 Issue: 4 Article Number: 043507 DOI: 10.1063/1.3186055 Published: AUG 15 2009
Times Cited in Web of Science Core Collection: 13
Total Times Cited: 13

Record 67 of 150

Title: Model for Elastic Relaxation Phenomena in Finite 2D Hexagonal Molecular Lattices
Author(s): Enachescu, C (Enachescu, Cristian); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Hauser, A (Hauser, Andreas)
Source: PHYSICAL REVIEW LETTERS Volume: 102 Issue: 25 Article Number: 257204 DOI: 10.1103/PhysRevLett.102.257204 Published: JUN 26 2009
Times Cited in Web of Science Core Collection: 59
Total Times Cited: 59

Record 68 of 150

Title: Monte Carlo simulations for 1-and 2D spin crossover compounds using the atom-phonon coupling model
Author(s): Rotaru, A (Rotaru, Aurelian); Carmona, A (Carmona, Adrian); Combaud, F (Combaud, Flavien); Linares, J (Linares, Jorge); Stancu, A (Stancu, Alexandru); Nasser, J (Nasser, Jamil)
Source: POLYHEDRON Volume: 28 Issue: 9-10 Pages: 1684-1687 DOI: 10.1016/j.poly.2008.10.053 Published: JUN 22 2009
Times Cited in Web of Science Core Collection: 12
Total Times Cited: 12

Record 69 of 150

Title: Study of the Optimum Dose of Ferromagnetic Nanoparticles Suitable for Cancer Therapy Using MFH
Author(s): Pavel, M (Pavel, M.); Gradinariu, G (Gradinariu, G.); Stancu, A (Stancu, A.)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 11 Pages: 3205-3208 DOI: 10.1109/TMAG.2008.2001661 Part: 1
Published: NOV 2008
Times Cited in Web of Science Core Collection: 18
Total Times Cited: 18

Record 70 of 150

Title: Measurement of the critical curve of a synthetic antiferromagnet
Author(s): Radu, C (Radu, Cosmin); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
Source: APPLIED PHYSICS LETTERS Volume: 93 Issue: 2 Article Number: 022506 DOI: 10.1063/1.2953439 Published: JUL 14 2008
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

Record 71 of 150

Title: The temperature dependence of hysteretic processes in Co nanowires arrays
Author(s): Astefanoaei, I (Astefanoaei, I.); Dumitru, I (Dumitru, I.); Diaconu, A (Diaconu, A.); Spinu, L (Spinu, L.); Stancu, A (Stancu, A.)
Source: JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 7 Article Number: 07D930 DOI: 10.1063/1.2837500 Published: APR 1 2008
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

Record 72 of 150

Title: Switching behavior of a Stoner-Wohlfarth particle subjected to spin-torque effect

Author(s): Pham, H (Pham, Huy); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)

Source: JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 7 Article Number: 07B105 DOI: 10.1063/1.2830720 Published: APR 1 2008

Times Cited in Web of Science Core Collection: 3

Total Times Cited: 3

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Title: Size and pressure effects in the atom-phonon coupling model for spin crossover compounds

Author(s): Rotaru, A (Rotaru, Aurelian); Linares, J (Linares, Jorge); Codjovi, E (Codjovi, Epiphane); Nasser, J (Nasser, Jami); Stancu, A (Stancu, Alexandru)

Source: JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 7 Article Number: 07B908 DOI: 10.1063/1.2832674 Published: APR 1 2008

Times Cited in Web of Science Core Collection: 9

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Title: A first order reversal curve investigation of pressure hysteresis in multiferroic spin transition compound

Author(s): Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Codjovi, E (Codjovi, Epiphane); Linares, J (Linares, Jorge); Varret, F (Varret, Francois); Letard, JF (Letard, Jean-Francois)

Source: JOURNAL OF APPLIED PHYSICS Volume: 103 Issue: 7 Article Number: 07B905 DOI: 10.1063/1.2831335 Published: APR 1 2008

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Title: Experimental and micromagnetic first-order reversal curves analysis in NdFeB-based bulk "exchange spring" - type permanent magnets

Author(s): Chiriac, H (Chiriac, Horia); Lupu, N (Lupu, Nicoleta); Stoleriu, L (Stoleriu, Laurentiu); Postolache, P (Postolache, Petronel); Stancu, A (Stancu, Alexandru)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: 177-180 DOI:

10.1016/j.jmmm.2007.02.049 Published: SEP 2007

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Title: Magnetic properties of the BaTiO₃-(Ni, Zn)Fe₂O₄ multiferroic composites

Author(s): Mitoseriu, L (Mitoseriu, L.); Pallecchi, I (Pallecchi, I.); Buscaglia, V (Buscaglia, V.); Testino, A (Testino, A.); Ciomaga, CE (Ciomaga, C. E.); Stancu, A (Stancu, A.)

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Record 77 of 150

Title: Influence of material anisotropy in the switching toggle mode in MRAM devices

Author(s): Olariu, CS (Olariu, Cristina Stefania); Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E302-E305 DOI:

10.1016/j.jmmm.2007.02.127 Published: SEP 2007

Times Cited in Web of Science Core Collection: 1

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Record 78 of 150

Title: Vectorial Preisach-type model designed for parallel computing

Author(s): Stancu, A (Stancu, Alexandru); Stoleriu, L (Stoleriu, Laurentiu); Andrei, P (Andrei, Petru)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E309-E312 DOI:

10.1016/j.jmmm.2007.02.130 Published: SEP 2007

Times Cited in Web of Science Core Collection: 4

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Title: Passive high-frequency devices based on superlattice ferromagnetic nanowires

Author(s): Ye, B (Ye, B.); Li, F (Li, F.); Cimpoesu, D (Cimpoesu, D.); Wiley, JB (Wiley, J. B.); Jung, JS (Jung, J.-S.); Stancu, A (Stancu, A.); Spinu, L (Spinu, L.)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 316 Issue: 2 Pages: E56-E58 DOI:

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Title: Piezo- and thermo-switch investigation of the spin-crossover compound [Fe(PM-BiA)₂(NCS)₂]

Author(s): Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Letard, JF (Letard, Jean-Francois); Codjovi, E (Codjovi, Epiphane); Linares, J (Linares, Jorge); Varret, F (Varret, Francois)

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Times Cited in Web of Science Core Collection: 10
Total Times Cited: 10

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Title: Physics of complex transverse susceptibility of magnetic particulate systems
Author(s): Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
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Total Times Cited: 9

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Title: Dynamic and temperature effects in toggle magnetic random access memory
Author(s): Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
Source: JOURNAL OF APPLIED PHYSICS Volume: 102 Issue: 1 Article Number: 013915 DOI: 10.1063/1.2752138 Published: JUL 1 2007
Times Cited in Web of Science Core Collection: 13
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Title: Study of impurities effect in spin crossover compounds using first order reversal curves (FORC) method
Author(s): Tanasa, R (Tanasa, Radu); Enachescu, C (Enachescu, Cristian); Stancu, A (Stancu, Alexandru); Varret, F (Varret, Francois); Linares, J (Linares, Jorge); Codjovi, E (Codjovi, Epiphane)
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Title: Reversible susceptibility studies of magnetization switching in FeCoB synthetic antiferromagnets
Author(s): Radu, C (Radu, Cosmin); Cimpoesu, D (Cimpoesu, Dorin); Girt, E (Girt, Erol); Ju, GP (Ju, Ganping); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
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Times Cited in Web of Science Core Collection: 2
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Title: Temperature, stress, and rate dependent numerical implementation of magnetization processes in phenomenological models
Author(s): Andrei, P (Andrei, P.); Stancu, A (Stancu, A.); Hauser, H (Hauser, H.); Fulmek, P (Fulmek, P.)
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Title: Simulation of toggle mode switching in MRAM'S
Author(s): Olariu, CS (Olariu, C. S.); Stoleriu, L (Stoleriu, L.); Stancu, A (Stancu, A.)
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Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 87 of 150

Title: Hysteresis and tunability characteristics of Ba(Zr,Ti)O-3 ceramics described by First Order Reversal Curves diagrams
Author(s): Mitoseriu, L (Mitoseriu, L.); Ciomaga, CE (Ciomaga, C. E.); Buseaglia, V (Buseaglia, V.); Stoleriu, L (Stoleriu, L.); Piazza, D (Piazza, D.); Galassi, C (Galassi, C.); Stancu, A (Stancu, A.); Nanni, P (Nanni, P.)
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Times Cited in Web of Science Core Collection: 14
Total Times Cited: 14

Record 88 of 150

Title: Preparation and characterisation of the Ba(Zr,Ti)O-3 ceramics with relaxor properties
Author(s): Ciomaga, C (Ciomaga, Cristina); Viviani, M (Viviani, Massimo); Buscaglia, MT (Buscaglia, Maria Teresa); Buscaglia, V (Buscaglia, Vincenzo); Mitoseriu, L (Mitoseriu, Lillana); Stancu, A (Stancu, Alexandru); Nanni, P (Nanni, Paolo)
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Times Cited in Web of Science Core Collection: 47
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Title: Analysis of switching properties of porous ferroelectric ceramics by means of first-order reversal curve diagrams
Author(s): Stoleriu, L (Stoleriu, Laurentiu); Stancu, A (Stancu, Alexandru); Mitoseriu, L (Mitoseriu, Liliana); Piazza, D (Piazza, Daniele); Galassi, C (Galassi, Carmen)

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Title: Interaction field distribution in longitudinal and perpendicular structured particulate media
Author(s): Stancu, A (Stancu, Alexandru); Macsim, E (Macsim, Emanuel)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Issue: 10 Pages: 3162-3164 DOI: 10.1109/TMAG.2006.880142 Published: OCT 2006
Times Cited in Web of Science Core Collection: 6
Total Times Cited: 6

Record 91 of 150

Title: Interaction effects analysis of FMR spectra on dense nanowire systems
Author(s): Dumitru, I (Dumitru, Ioan); Li, F (Li, Feng); Wiley, JB (Wiley, John B.); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)
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Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

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Title: Preparation and dielectric properties of BaZr_{0.1}Ti_{0.9}O₃ ceramics with different grain sizes
Author(s): Ciomaga, CE (Ciomaga, C. E.); Buscaglia, MT (Buscaglia, M. T.); Viviani, M (Viviani, M.); Buscaglia, V (Buscaglia, V.); Mitoseriu, L (Mitoseriu, L.); Stancu, A (Stancu, A.); Nanni, P (Nanni, P.)
Source: PHASE TRANSITIONS Volume: 79 Issue: 6-7 Pages: 389-397 DOI: 10.1080/01411590600892120 Published: JUN-JUL 2006
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Total Times Cited: 11

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Title: Relaxation effects in interacting nanostructured particulate systems
Author(s): Cimpoesu, D (Cimpoesu, D); Stancu, A (Stancu, A); Spinu, L (Spinu, L)
Source: JOURNAL OF APPLIED PHYSICS Volume: 99 Issue: 8 Article Number: 08G105 DOI: 10.1063/1.2176332 Published: APR 15 2006
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

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Title: Rate-dependent light-induced thermal hysteresis of [Fe(PM-BiA)(2)(NCS)(2)] spin transition complex
Author(s): Enachescu, C (Enachescu, Cristian); Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru); Chastanet, G (Chastanet, Guillaume); Letard, JF (Letard, Jean-Francois); Linares, J (Linares, Jorge); Varret, F (Varret, Francois)
Source: JOURNAL OF APPLIED PHYSICS Volume: 99 Issue: 8 Article Number: 08J504 DOI: 10.1063/1.2167059 Published: APR 15 2006
Times Cited in Web of Science Core Collection: 9
Total Times Cited: 9

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Title: Magnetic characterization of samples using first- and second-order reversal curve diagrams
Author(s): Stancu, A (Stancu, A); Andrei, P (Andrei, P); Stoleriu, L (Stoleriu, L)
Source: JOURNAL OF APPLIED PHYSICS Volume: 99 Issue: 8 Article Number: 08D702 DOI: 10.1063/1.2172539 Published: APR 15 2006
Times Cited in Web of Science Core Collection: 5
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Title: Characterization of static hysteresis models using first-order reversal curves diagram method
Author(s): Stancu, A (Stancu, A); Andrei, P (Andrei, P)
Source: PHYSICA B-CONDENSED MATTER Volume: 372 Issue: 1-2 Pages: 72-75 DOI: 10.1016/j.physb.2005.10.022 Published: FEB 1 2006
Times Cited in Web of Science Core Collection: 10
Total Times Cited: 10

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Title: Transverse susceptibility as the low-frequency limit of ferromagnetic resonance
Author(s): Spinu, L (Spinu, L); Dumitru, I (Dumitru, I); Stancu, A (Stancu, A); Cimpoesu, D (Cimpoesu, D)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 296 Issue: 1 Pages: 1-8 DOI: 10.1016/j.jmmm.2004.12.045
Published: JAN 1 2006
Times Cited in Web of Science Core Collection: 21
Total Times Cited: 21

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Title: Experimental evaluation of magnetic interaction in pyrrhotite bearing samples
Author(s): Wehland, F (Wehland, F); Stancu, A (Stancu, A); Rochette, P (Rochette, P); Dekkers, MJ (Dekkers, MJ); Appel, E (Appel, E)

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Published: DEC 15 2005
Times Cited in Web of Science Core Collection: 20
Total Times Cited: 20

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Title: Study of magnetic interactions in metallic nanowire networks
Author(s): Dumitru, I (Dumitru, I); Li, F (Li, F); Wiley, JB (Wiley, JB); Cimpoesu, D (Cimpoesu, D); Stancu, A (Stancu, A); Spinu, L (Spinu, L)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 41 Issue: 10 Pages: 3361-3363 DOI: 10.1109/TMAG.2005.854707 Published: OCT 2005
Times Cited in Web of Science Core Collection: 31
Total Times Cited: 31

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Title: First-order reversal curves analysis of rate-dependent hysteresis: The example of light-induced thermal hysteresis in a spin-crossover solid
Author(s): Enachescu, C (Enachescu, C); Tanasa, R (Tanasa, R); Stancu, A (Stancu, A); Varret, F (Varret, F); Linares, J (Linares, J); Codjovi, E (Codjovi, E)
Source: PHYSICAL REVIEW B Volume: 72 Issue: 5 Article Number: 054413 DOI: 10.1103/PhysRevB.72.054413 Published: AUG 2005
Times Cited in Web of Science Core Collection: 31
Total Times Cited: 31

Record 101 of 150

Title: The state dependence of the dynamic interactions in nanostructured particulate systems
Author(s): Cimpoesu, D (Cimpoesu, D); Spinu, L (Spinu, L); Stancu, A (Stancu, A)
Source: JOURNAL OF APPLIED PHYSICS Volume: 97 Issue: 10 Article Number: 10J501 DOI: 10.1063/1.1844933 Part: 3 Published: MAY 15 2005
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

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Title: Magnetization reversal in interacting magnetic systems
Author(s): Pham, HN (Pham, HN); Dumitru I (Dumitru, I); Stancu, A (Stancu, A); Spinu, L (Spinu, L)
Source: JOURNAL OF APPLIED PHYSICS Volume: 97 Issue: 10 Article Number: 10P106 DOI: 10.1063/1.1853212 Part: 3 Published: MAY 15 2005
Times Cited in Web of Science Core Collection: 5
Total Times Cited: 5

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Title: New Preisach model for structured particulate ferromagnetic media
Author(s): Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L); Postolache, P (Postolache, P); Tanasa, R (Tanasa, R)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 290 Special Issue: SI Pages: 490-493 DOI: 10.1016/j.jmmm.2004.11.509 Part: 1 Published: APR 2005
Times Cited in Web of Science Core Collection: 13
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Title: Probing two-dimensional magnetic switching in Co/SiO₂ multilayers using reversible susceptibility experiments
Author(s): Spinu, L (Spinu, L); Pham, H (Pham, H); Radu, C (Radu, C); Denardin, JC (Denardin, JC); Dumitru, I (Dumitru, I); Knobel, M (Knobel, M); Dorneles, LS (Dorneles, LS); Schelp, LF (Schelp, LF); Stancu, A (Stancu, A)
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Title: First-order reversal curve analysis of spin-transition thermal hysteresis in terms of physical-parameter distributions and their correlations
Author(s): Tanasa, R (Tanasa, R); Enachescu, C (Enachescu, C); Stancu, A (Stancu, A); Linares, J (Linares, J); Codjovi, E (Codjovi, E); Varret, F (Varret, F); Haasnoot, J (Haasnoot, J)
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Times Cited in Web of Science Core Collection: 50
Total Times Cited: 50

Record 106 of 150

Title: Preisach-type model for strongly interacting ferromagnetic particulate systems
Author(s): Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L); Postolache, P (Postolache, P); Cerchez, M (Cerchez, M)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 40 Issue: 4 Pages: 2113-2115 DOI: 10.1109/tmag.2004.830399 Part: 2 Published: JUL 2004
Times Cited in Web of Science Core Collection: 15
Total Times Cited: 15

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Title: Method for magnetic characterization of nanowire structures

Author(s): Spinu, L (Spinu, L); Stancu, A (Stancu, A); Radu, C (Radu, C); Li, F (Li, F); Wiley, JB (Wiley, JB)

Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 40 Issue: 4 Pages: 2116-2118 DOI: 10.1109/tmag.2004.829810 Part: 2 Published: JUL 2004

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Total Times Cited: 35

Record 108 of 150

Title: New statistical method for characterization of structured recording media magnetization processes

Author(s): Tanasa, R (Tanasa, R); Enachescu, C (Enachescu, C); Stancu, A (Stancu, A); Linares, J (Linares, J); Varret, F (Varret, F)

Source: JOURNAL OF APPLIED PHYSICS Volume: 95 Issue: 11 Pages: 6750-6752 DOI: 10.1063/1.1682871 Part: 2 Published: JUN 1 2004

Times Cited in Web of Science Core Collection: 7

Total Times Cited: 7

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Title: Analysis of the switching characteristics of PZT films by first order reversal curve diagrams

Author(s): Ricinschi, D (Ricinschi, D); Mitoseriu, L (Mitoseriu, L); Stancu, A (Stancu, A); Postolache, P (Postolache, P); Okuyama, M (Okuyama, M)

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Times Cited in Web of Science Core Collection: 18

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Record 110 of 150

Title: FORC method applied to the thermal hysteresis of spin transition solids: first approach of static and kinetic properties

Author(s): Enachescu, C (Enachescu, C); Tanasa, R (Tanasa, R); Stancu, A (Stancu, A); Codjovi, E (Codjovi, E); Linares, J (Linares, J); Varret, F (Varret, F)

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Total Times Cited: 24

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Title: Quasi-realistic distribution of interaction fields leading to a variant of Ising spin glass model

Author(s): Tanasa, R (Tanasa, R); Enachescu, C (Enachescu, C); Stancu, A (Stancu, A); Linares, J (Linares, J); Varret, F (Varret, F)

Source: PHYSICA B-CONDENSED MATTER Volume: 343 Issue: 1-4 Pages: 314-319 DOI: 10.1016/j.physb.2003.08.062 Published: JAN 1 2004

Times Cited in Web of Science Core Collection: 9

Total Times Cited: 9

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Title: Vectorial mapping of exchange anisotropy in IrMn/FeCo multilayers using the reversible susceptibility tensor

Author(s): Spinu, L (Spinu, L); Stancu, A (Stancu, A); Kubota, Y (Kubota, Y); Ju, G (Ju, G); Weller, D (Weller, D)

Source: PHYSICAL REVIEW B Volume: 68 Issue: 22 Article Number: 220401 DOI: 10.1103/PhysRevB.68.220401 Published: DEC 2003

Times Cited in Web of Science Core Collection: 20

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Title: First-order reversal curves diagrams for the characterization of ferroelectric switching

Author(s): Stancu, A (Stancu, A); Ricinschi, D (Ricinschi, D); Mitoseriu, L (Mitoseriu, L); Postolache, P (Postolache, P); Okuyama, M (Okuyama, M)

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Record 114 of 150

Title: Transverse susceptibility for single-domain particle with cubic anisotropy

Author(s): Stancu, A (Stancu, A); Spinu, L (Spinu, L)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 266 Issue: 1-2 Pages: 200-206 DOI: 10.1016/S0304-8853(03)00475-X Published: OCT 2003

Times Cited in Web of Science Core Collection: 9

Total Times Cited: 9

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Title: Experimental evaluation of the Preisach distribution for magnetic recording media

Author(s): Postolache, P (Postolache, P); Cerchez, M (Cerchez, M); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A)

Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 39 Issue: 5 Pages: 2531-2533 DOI: 10.1109/TMAG.2003.816467 Part: 2 Published: SEP 2003

Times Cited in Web of Science Core Collection: 24

Total Times Cited: 24

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Title: Analysis of the composition-induced transition from relaxor to ferroelectric state in PbFe₂/3W₁/3O₃-PbTiO₃ solid solutions
Author(s): Mitoseriu, L (Mitoseriu, L); Stancu, A (Stancu, A); Fedor, C (Fedor, C); Vilarinho, PM (Vilarinho, PM)
Source: JOURNAL OF APPLIED PHYSICS Volume: 94 Issue: 3 Pages: 1918-1925 DOI: 10.1063/1.1586470 Published: AUG 1 2003
Times Cited in Web of Science Core Collection: 49
Total Times Cited: 49

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Title: Effects of magnetic layer thickness and of head-to-medium spacing on noise in advanced particulate recording media
Author(s): Mercer, T (Mercer, T); Bissell, PR (Bissell, PR); Ardeleanu, P (Ardeleanu, P); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A)
Source: JOURNAL OF APPLIED PHYSICS Volume: 93 Issue: 10 Pages: 6334-6343 DOI: 10.1063/1.1556088 Part: 1 Published: MAY 15 2003
Times Cited in Web of Science Core Collection: 2
Total Times Cited: 2

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Title: Micromagnetic and Preisach analysis of the First Order Reversal Curves (FORC) diagram
Author(s): Stancu, A (Stancu, A); Pike, C (Pike, C); Stoleriu, L (Stoleriu, L); Postolache, P (Postolache, P); Cimpoesu, D (Cimpoesu, D)
Source: JOURNAL OF APPLIED PHYSICS Volume: 93 Issue: 10 Pages: 6620-6622 DOI: 10.1063/1.1557656 Part: 2 Published: MAY 15 2003
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 94

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Title: First order approximation for interactions in particulate single-domain particle systems
Author(s): Cimpoesu, D (Cimpoesu, D); Postolache, P (Postolache, P); Stancu, A (Stancu, A)
Source: JOURNAL OF APPLIED PHYSICS Volume: 93 Issue: 10 Pages: 6644-6646 DOI: 10.1063/1.1557700 Part: 2 Published: MAY 15 2003
Times Cited in Web of Science Core Collection: 9
Total Times Cited: 9

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Title: Analytical and experimental study of identification of Preisach-Neel-type models for magnetic nanoparticle systems
Author(s): Borcia, ID (Borcia, ID); Cerchez, M (Cerchez, M); Stancu, A (Stancu, A); Tung, LD (Tung, LD); Spinu, L (Spinu, L)
Source: JOURNAL OF APPLIED PHYSICS Volume: 93 Issue: 10 Pages: 6823-6825 DOI: 10.1063/1.1557277 Part: 2 Published: MAY 15 2003
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1

Record 121 of 150
Title: Spatial effects in the DC modulation noise of advanced MP tape
Author(s): Ardeleanu, P (Ardeleanu, P); Mercer, T (Mercer, T); Bissell, PR (Bissell, PR); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 5 Pages: 1904-1906 DOI: 10.1109/TMAG.2002.802823 Part: 1
Published: SEP 2002
Times Cited in Web of Science Core Collection: 0
Total Times Cited: 0

Record 122 of 150
Title: A Preisach-Neel model with thermally variable variance
Author(s): Borcia, ID (Borcia, ID); Spinu, L (Spinu, L); Stancu, A (Stancu, A)
Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 5 Pages: 2415-2417 DOI: 10.1109/TMAG.2002.803611 Part: 1
Published: SEP 2002
Times Cited in Web of Science Core Collection: 7
Total Times Cited: 7

Record 123 of 150
Title: Interaction evaluation in particulate media using the integral generalized Delta M plot
Author(s): Cerchez, M (Cerchez, M); Bissell, PR (Bissell, PR); Stancu, A (Stancu, A)
Source: JOURNAL OF APPLIED PHYSICS Volume: 91 Issue: 10 Pages: 7657-7659 DOI: 10.1063/1.1456411 Part: 2 Published: MAY 15 2002
Times Cited in Web of Science Core Collection: 3
Total Times Cited: 3

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Title: Computational model of the magnetic and transport properties of interacting fine particles
Author(s): Verdes, C (Verdes, C); Ruiz-Diaz, B (Ruiz-Diaz, B); Thompson, SM (Thompson, SM); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)
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Title: Study of the microstructure and of the permeability spectra of Ni-Zn-Cu ferrites
Author(s): Caltun, OF (Caltun, OF); Spinu, L (Spinu, L); Stancu, A (Stancu, A); Thung, LD (Thung, LD); Zhou, W (Zhou, W)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 242 Pages: 160-162 Article Number: PII S0304-8853(01)01187-8 DOI: 10.1016/S0304-8853(01)01187-8 Part: 1 Published: APR 2002

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Title: Micromagnetic analysis of the transverse susceptibility of particulate systems
Author(s): Stancu, A (Stancu, A); Spinu, L (Spinu, L); O'Connor, CJ (O'Connor, CJ)
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 242 Pages: 1026-1029 Article Number: PII S0304-8853(01)01129-5 DOI: 10.1016/S0304-8853(01)01129-5 Part: 2 Published: APR 2002
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Author(s): Borcia, ID (Borcia, ID); Spinu, L (Spinu, L); Stancu, A (Stancu, A)
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Author(s): Spinu, L (Spinu, L); Stancu, A (Stancu, A); O'Connor, CJ (O'Connor, CJ); Srikanth, H (Srikanth, H)
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Author(s): Enachescu, C (Enachescu, C); Machado, HC (Machado, HC); Menendez, N (Menendez, N); Codjovi, E (Codjovi, E); Linares, J (Linares, J); Varret, F (Varret, F); Stancu, A (Stancu, A)
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Title: Time and temperature-dependent Preisach models
Author(s): Spinu, L (Spinu, L); Borcia, ID (Borcia, ID); Stancu, A (Stancu, A); O'Connor, CJ (O'Connor, CJ)
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Title: Magnetic properties of high frequency Ni-Zn ferrites doped with CuO
Author(s): Caltun, OF (Caltun, OF); Spinu, L (Spinu, L); Stancu, A (Stancu, A)
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Author(s): Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L); Cerchez, M (Cerchez, M)
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Author(s): Verdes, CG (Verdes, CG); Ruiz-Diaz, B (Ruiz-Diaz, B); Thompson, SM (Thompson, SM); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)
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Title: Micromagnetic evaluation of statistical and mean-field interactions in particulate ferromagnetic media
Author(s): Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L); Cerchez, M (Cerchez, M)
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Author(s): Bissell, PR (Bissell, PR); Cerchez, M (Cerchez, M); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)
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Author(s): Mardare, D (Mardare, D); Stancu, A (Stancu, A)
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Author(s): Andrei, P (Andrei, P); Stancu, A (Stancu, A)
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Author(s): Stancu, A (Stancu, A); Bissell, PR (Bissell, PR); Chantrell, RW (Chantrell, RW)
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Title: Generalized delta m curves for particulate recording media obtained by Fourier analysis
Author(s): Stancu, A (Stancu, A); Verdes, C (Verdes, C); Enachescu, C (Enachescu, C)
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Author(s): Andrei, P (Andrei, P); Stancu, A (Stancu, A)
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Title: Losses and magnetic properties of Bi₂O₃ doped MnZn ferrites
Author(s): Andrei, P (Andrei, P); Caltun, OF (Caltun, OF); Papusoi, C (Papusoi, C); Stancu, A (Stancu, A); Feder, M (Feder, M)
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Author(s): Stancu, A (Stancu, A); Bissell, PR (Bissell, PR); Chantrell, RW (Chantrell, RW)
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Title: Temperature- and time-dependent Preisach model for a Stoner-Wohlfarth particle system
Author(s): Stancu, A (Stancu, A); Spinu, L (Spinu, L)
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Author(s): Spinu, L (Spinu, L); Stancu, A (Stancu, A)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 189 Issue: 1 Pages: 106-114 DOI: 10.1016/S0304-8853(98)00205-4 Published: OCT 1998

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Title: Algorithm for the computation of the FC and ZFC magnetization curves for nanoparticle systems

Author(s): Papusoi, C (Papusoi, C); Stancu, A (Stancu, A); Papusoi, C (Papusoi, C); Dormann, JL (Dormann, JL); Nogues, M (Nogues, M); Tronc, E (Tronc, E)

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Title: Thermal hysteresis loops in spin-crossover compounds analyzed in terms of classical Preisach model

Author(s): Constant-Machado, H (Constant-Machado, H); Stancu, A (Stancu, A); Linares, J (Linares, J); Varret, F (Varret, F)

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Author(s): Andrei, P (Andrei, P); Stancu, A (Stancu, A); Caltun, O (Caltun, O)

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Author(s): Andrei, P (Andrei, P); Caltun, O (Caltun, O); Stancu, A (Stancu, A)

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Title: The initial susceptibility in the FC and ZFC magnetisation processes

Author(s): Papusoi, C (Papusoi, C); Stancu, A (Stancu, A); Dormann, JL (Dormann, JL)

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Author(s): Stancu, A (Stancu, A); Chiorescu, I (Chiorescu, I)

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