



## Professor Alexandru STANCU

„Alexandru Ioan Cuza” University of Iași  
Faculty of Physics, Department of Physics & CARPATH  
Boulevard Carol I, 11, Iasi, 700506, Romania  
E-mail: [alstancu@uaic.ro](mailto:alstancu@uaic.ro)

**Professor of Physics** (Electromagnetism, Magnetism, Computational Physics)  
Ph.D. in Physics (Magnetism, Scientific Adviser: Prof. Constantin PAPUSOI)

Director CARPATH\* Center of Excellence in Scientific Research (physics)  
Director AMON\*\* Interdisciplinary Platform  
Chair of IEEE Magnetics Society – Romania Section  
IEEE Senior Member, Educational Committee member

Editor-in-Chief - Journal of Advanced Research in Physics  
Editor-in-Chief - Revista Stiintifica V. Adamachi – Serie Noua  
Member in the Editorial Review Board for the IEEE Magnetics Letters  
Member in the Editorial Board for the SPIN (World Scientific)

### **Publications:**

>250 published ISI articles; >1000 independent citations; h=20

### **Research Grants:**

>4 MEURO in scientific grants

### **Previous activities:**

Head of Department (2000-2006)  
Vice-president of the National Commission for the evaluation of Open and Distance Learning programs – Commission 14 CNEAA 2000-2006  
Member of the Commission for the National Research Strategy 2009-2013  
Chair of the Solid State Division of the Romanian Physical Society (2009-2013)  
Member of IEEE Magnetics Society Administrative Committee (elected member) (2011-2013)  
Member of IEEE Magnetics Society Technical Committee (2006-2013)

### **Honours:**

Knight of the Order Merit in Education in 2004 (Romanian Ministry of Education)  
“Stefan Procopiu” award in 2010 from the Romanian National Academy

### **Ph.D. Students (finalized theses):**

Ion Dan BORCIA, Dorin CIMPOEȘU, Cristian ENĂCHESCU, Claudiu VERDEȘ,  
Petronel POSTOLACHE, Cristina CIOMAGA, Radu TANASĂ, Dan RICINSCHI, Cristina OLARIU,  
Aurelian ROTARU, Ilie BODALE, Iulian PETRILA, Irina URSACHI, Ovidiu CHISCAN,  
Cristian ROTARESCU, Costin DOBROTĂ, Eugen ONICIUC, Ciprian PINZARU

\* CARPATH = Centre of Applied Research in Physics and Advanced Technologies

\*\* AMON = Integrated platform for Advanced studies in MOlecular Nanotechnologies

Published articles - selection (Nov. 2013)  
Alexandru STANCU

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Web of Knowledge  
Page 1 (Records 1 -- 50)

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**Record 1 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

---

**Record 2 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

---

**Record 3 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

---

**Record 4 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

---

**Record 5 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

---

**Record 6 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

---

**Record 7 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

---

**Record 8 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

---

**Record 9 of 150**

**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

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**Record 10 of 150**

**Title:** Magnetization reversal in graded anisotropy Co/Pt multilayers: A first order reversal curve study

**Author(s):** Markou, A (Markou, A.); Panagiotopoulos, I (Panagiotopoulos, I.); Bakas, T (Bakas, T.); Postolache, P (Postolache, P.); Stoleriu, L (Stoleriu, L.); Stancu, A (Stancu, A.)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 112 **Issue:** 12 **Article Number:** 123914 **DOI:** 10.1063/1.4770487 **Published:** DEC 15 2012

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**Record 11 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

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**Record 12 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

---

**Record 13 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

---

**Record 14 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

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**Record 15 of 150**

**Title:** High Frequency Absorption of PVC/Iron Oxides and PVC/CoFe<sub>2</sub>O<sub>4</sub>/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

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#### Record 16 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

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#### Record 17 of 150

**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)

**Source:** PHYSICAL REVIEW B **Volume:** 84 **Issue:** 13 **Article Number:** 134431 **DOI:** 10.1103/PhysRevB.84.134431 **Published:** OCT 20 2011

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#### Record 18 of 150

**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)

**Source:** PHYSICAL REVIEW B **Volume:** 84 **Issue:** 13 **Article Number:** 134102 **DOI:** 10.1103/PhysRevB.84.134102 **Published:** OCT 11 2011

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#### Record 19 of 150

**Title:** Induced Thermal Stresses in Core Shell Magnetic Particles

**Author(s):** Astefanoaei, I (Astefanoaei, Iordana); Dumitru, I (Dumitru, Ioan); Stancu, A (Stancu, Alexandru)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 47 **Issue:** 10 **Pages:** 3829-3832 **DOI:** 10.1109/TMAG.2011.2144964 **Published:** OCT 2011

---

#### Record 20 of 150

**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

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#### Record 21 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

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#### Record 22 of 150

**Title:** Pressure effect investigated with first-order reversal-curve method on the spin-transition compounds [FexZn1-x(btr)(2)(NCS)(2)]center dot H2O (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

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**Record 23 of 150**

**Title:** Magnetization reversal in [Ni/Pt](6)/Pt(x)/[Co/Pt](6) multilayers

**Author(s):** Siadou, N (Siadou, N.); Androustopoulos, M (Androustopoulos, M.); Panagiotopoulos, I (Panagiotopoulos, I.); Stoleriu, L (Stoleriu, L.); Stancu, A (Stancu, A.); Bakas, T (Bakas, T.); Alexandrakis, 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

---

**Record 24 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

---

**Record 25 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

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**Record 26 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

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**Record 27 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

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**Record 28 of 150**

**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

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**Record 29 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

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**Record 30 of 150**

**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

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**Record 31 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

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**Record 32 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

---

**Record 33 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

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**Record 34 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

---

**Record 35 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

---

**Record 36 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

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**Record 37 of 150**

**Title:** Hydrostatic pressure investigation of the spin crossover compound [Fe(PM-BiA)(2)(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

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**Record 38 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

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**Record 39 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

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**Record 40 of 150**

**Title:** Dynamic and temperature effects in spin-transfer switching

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

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 104 **Issue:** 11 **Article Number:** 113918 **DOI:** 10.1063/1.3032415 **Published:** DEC 1 2008

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**Record 41 of 150**

**Title:** Interaction Effects in Ni Nanowire Arrays

**Author(s):** Trusca, OC (Trusca, Ovidiu Cezar); Cimpoesu, D (Cimpoesu, Dorin); Lim, JH (Lim, Jin-Hee); Zhang, X (Zhang, Xiequn); Wiley, JB (Wiley, John B.); Diaconu, A (Diaconu, Andrei); Dumitru, I (Dumitru, Ioan); Stancu, A (Stancu, Alexandru); Spinu, L (Spinu, Leonard)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 44 **Issue:** 11 **Pages:** 2730-2733 **DOI:** 10.1109/TMAG.2008.2001501 **Published:** NOV 2008

---

**Record 42 of 150**

**Title:** Elastic Model for Complex Hysteretic Processes in Molecular Magnets

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 44 **Issue:** 11 **Pages:** 3052-3055 **DOI:** 10.1109/TMAG.2008.2002793 **Published:** NOV 2008

---

**Record 43 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

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**Record 44 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

---

**Record 45 of 150**

**Title:** Transverse susceptibility method in nanoparticulate magnetic media

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

**Source:** JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY **Volume:** 8 **Issue:** 6 **Pages:** 2731-2744 **Published:** JUN 2008

---

**Record 46 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

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**Record 47 of 150**

**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, Jamil); 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

---

**Record 48 of 150**

**Title:** First order reversal curves identification procedures for vector models of hysteresis

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

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 103 **Issue:** 7 **Article Number:** 07D923 **DOI:** 10.1063/1.2834252 **Published:** APR 1 2008

---

**Record 49 of 150**

**Title:** A first order reversal curve investigation of pressure hysteresis in multiferroics 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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**Record 50 of 150**

**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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**Record 51 of 150**

**Title:** Identification techniques for phenomenological models of hysteresis based on the conjugate gradient method

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

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 316 **Issue:** 2 **Pages:** E330-E333 **DOI:** 10.1016/j.jmmm.2007.02.137 **Published:** SEP 2007

**Record 52 of 150**

**Title:** Magnetic properties of the BaTiO<sub>3</sub>-(Ni, Zn) Fe<sub>2</sub>O<sub>4</sub> 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.)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 316 **Issue:** 2 **Pages:** E603-E606 **DOI:** 10.1016/j.jmmm.2007.03.036 **Published:** SEP 2007

**Record 53 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

**Record 54 of 150**

**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:** 10.1016/j.jmmm.2007.02.026 **Published:** SEP 2007

**Record 55 of 150**

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

**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)

**Source:** CHEMICAL PHYSICS LETTERS **Volume:** 443 **Issue:** 4-6 **Pages:** 435-438 **DOI:** 10.1016/j.cplett.2007.06.100 **Published:** AUG 6 2007

**Record 56 of 150**

**Title:** Physics of complex transverse susceptibility of magnetic particulate systems

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

**Source:** PHYSICAL REVIEW B **Volume:** 76 **Issue:** 5 **Article Number:** 054409 **DOI:** 10.1103/PhysRevB.76.054409 **Published:** AUG 2007

**Record 57 of 150**

**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

**Record 58 of 150**

**Title:** Micromagnetic study of the complex transverse susceptibility of uniaxial ferromagnets with quartic anisotropy

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 43 **Issue:** 6 **Pages:** 2905-2907 **DOI:** 10.1109/TMAG.2007.892538 **Published:** JUN 2007

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**Record 59 of 150**

**Title:** The reversible susceptibility tensor of synthetic antiferromagnets

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

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 101 **Issue:** 9 **Article Number:** 09D112 **DOI:** 10.1063/1.2695060 **Published:** MAY 1 2007

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**Record 60 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.)

**Source:** JOURNAL OF THE EUROPEAN CERAMIC SOCIETY **Volume:** 27 **Issue:** 13-15 **Pages:** 3723-3726 **DOI:** 10.1016/j.jeurceramsoc.2007.02.085 **Published:** 2007

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**Record 61 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)

**Source:** JOURNAL OF THE EUROPEAN CERAMIC SOCIETY **Volume:** 27 **Issue:** 13-15 **Pages:** 4061-4064 **DOI:** 10.1016/J.jeurceramsoc.2007.02.095 **Published:** 2007

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**Record 62 of 150**

**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)

**Source:** PHYSICAL REVIEW B **Volume:** 74 **Issue:** 17 **Article Number:** 174107 **DOI:** 10.1103/PhysRevB.74.174107 **Published:** NOV 2006

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**Record 63 of 150**

**Title:** Analysis of complex transverse susceptibility method for determination of volume and anisotropy field distributions in recording media

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3153-3155 **DOI:** 10.1109/TMAG.2006.880145 **Published:** OCT 2006

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**Record 64 of 150**

**Title:** FORC analysis of size effects in ising-type models of disordered magnets

**Author(s):** Enachescu, C (Enachescu, Cristian); Stancu, A (Stancu, Alexandru)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3156-3158 **DOI:** 10.1109/TMAG.2006.880140 **Published:** OCT 2006

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**Record 65 of 150**

**Title:** Using experimental FORC distribution as input for a Preisach-type model

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3159-3161 **DOI:** 10.1109/TMAG.2006.880112 **Published:** OCT 2006

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**Record 66 of 150**

**Title:** Interaction field distribution in longitudinal and perpendicular structured particulate media

**Author(s):** Stancu, A (Stancu, Alexandru); Maccsim, E (Maccsim, Emanuel)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3162-3164 **DOI:** 10.1109/TMAG.2006.880142 **Published:** OCT 2006

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**Record 67 of 150**

**Title:** Temperature dependence of FORC diagrams in nanostructured materials

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3165-3167 **DOI:** 10.1109/TMAG.2006.880148 **Published:** OCT 2006

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**Record 68 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)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3225-3227 **DOI:** 10.1109/TMAG.2006.880139 **Published:** OCT 2006

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**Record 69 of 150**

**Title:** Statistical characterization of the FORC diagram

**Author(s):** Tanasa, R (Tanasa, Radu); Stancu, A (Stancu, Alexandru)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 42 **Issue:** 10 **Pages:** 3246-3248 **DOI:** 10.1109/TMAG.2006.878425 **Published:** OCT 2006

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**Record 70 of 150**

**Title:** Monte Carlo analysis of magnetic aftereffect phenomena

**Author(s):** Andrei, P (Andrei, P); Stancu, A (Stancu, A)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 99 **Issue:** 8 **Article Number:** 08D701 **DOI:** 10.1063/1.2167065 **Published:** APR 15 2006

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**Record 71 of 150**

**Title:** Micromagnetic simulation of the complex transverse susceptibility in 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:** 08G315 **DOI:** 10.1063/1.2177127 **Published:** APR 15 2006

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**Record 72 of 150**

**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

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**Record 73 of 150**

**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

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**Record 74 of 150**

**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

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**Record 75 of 150**

**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

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**Record 76 of 150**

**Title:** Influence of stoichiometry on the dielectric and ferroelectric properties of the tunable (Ba,Sr)TiO<sub>3</sub> ceramics investigated by First Order Reversal Curves method

**Author(s):** Mitoseriu, L (Mitoseriu, Liliana); Stoleriu, L (Stoleriu, Laurentiu); Viviani, M (Viviani, Massimo); Piazza, D (Piazza, Daniele); Buscaglia, MT (Buscaglia, Maria Teresa); Calderone, R (Calderone, Roberto); Buscaglia, V (Buscaglia, Vincenzo); Stancu, A (Stancu, Alexandru); Nanni, P (Nanni, Paolo); Galassi, C (Galassi, Carmen)

**Source:** JOURNAL OF THE EUROPEAN CERAMIC SOCIETY **Volume:** 26 **Issue:** 14 **Pages:** 2915-2921 **DOI:** 10.1016/j.jeurceramsoc.2006.02.025 **Published:** 2006

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**Record 77 of 150**

**Title:** Characterisation of porous PZT ceramics by first-order reversal curves (FORC) diagrams

**Author(s):** Piazza, D (Piazza, Damele); Stoleriu, L (Stoleriu, Laurentiu); Mitoseriu, L (Mitoseriu, Liliana); Stancu, A (Stancu, Alexandru); Galassi, C (Galassi, Carmen)

**Source:** JOURNAL OF THE EUROPEAN CERAMIC SOCIETY **Volume:** 26 **Issue:** 14 **Pages:** 2959-2962 **DOI:** 10.1016/j.jeurceramsoc.2006.02.026 **Published:** 2006

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**Record 78 of 150**

**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)

**Source:** PHYSICS OF THE EARTH AND PLANETARY INTERIORS **Volume:** 153 **Issue:** 4 **Pages:** 181-190 **DOI:** 10.1016/j.pepi.2005.05.006 **Published:** DEC 15 2005

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**Record 79 of 150**

**Title:** Micromagnetic simulation of the imaginary part of the transverse susceptibility

**Author(s):** Cimpoesu, D (Cimpoesu, D); Stancu, A (Stancu, A); Dumitru, I (Dumitru, I); Spinu, L (Spinu, L)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 41 **Issue:** 10 **Pages:** 3121-3123 **DOI:** 10.1109/TMAG.2005.854889 **Published:** OCT 2005

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**Record 80 of 150**

**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

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**Record 81 of 150**

**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

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#### Record 82 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

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#### Record 83 of 150

**Title:** Generalized reversible susceptibility tensor

**Author(s):** Dumitru, I (Dumitru, I); Stancu, A (Stancu, A); Cimpoesu, D (Cimpoesu, D); Spinu, L (Spinu, L)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 97 **Issue:** 10 **Article Number:** 10E304 **DOI:** 10.1063/1.1849033 **Part:** 2 **Published:** MAY 15 2005

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#### Record 84 of 150

**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

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#### Record 85 of 150

**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

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#### Record 86 of 150

**Title:** Probing two-dimensional magnetic switching in Co/SiO<sub>2</sub> 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)

**Source:** APPLIED PHYSICS LETTERS **Volume:** 86 **Issue:** 1 **Article Number:** 012506 **DOI:** 10.1063/1.1842851 **Published:** JAN 3 2005

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#### Record 87 of 150

**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)

**Source:** PHYSICAL REVIEW B **Volume:** 71 **Issue:** 1 **Article Number:** 014431 **DOI:** 10.1103/PhysRevB.71.014431 **Published:** JAN 2005

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#### Record 88 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

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#### Record 89 of 150

**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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#### Record 90 of 150

**Title:** Simulation of temperature dependence of statistical interactions in nanoparticulate systems

**Author(s):** Cimpoesu, D (Cimpoesu, D); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 40 **Issue:** 4 **Pages:** 2125-2127 **DOI:** 10.1109/tmag.2004.830456 **Part:** 2 **Published:** JUL 2004

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#### Record 91 of 150

**Title:** Reversed gyroremanent magnetization in gamma-Fe<sub>2</sub>O<sub>3</sub> particulate systems

**Author(s):** Salaoru, T (Salaoru, T); Potter, DK (Potter, DK); Stoleriu, L (Stoleriu, L); Papusoi, C (Papusoi, C); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 40 **Issue:** 4 **Pages:** 2407-2409 **DOI:** 10.1109/TMAG.2004.830458 **Part:** 2 **Published:** JUL 2004

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#### Record 92 of 150

**Title:** Simulation of magnetic properties versus temperature for RE-TM based amorphous alloys

**Author(s):** Cimpoesu, D (Cimpoesu, D); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A); Lupu, N (Lupu, N); Chiriac, H (Chiriac, H)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 40 **Issue:** 4 **Pages:** 2730-2732 **DOI:** 10.1109/TMAG.2004.830452 **Part:** 2 **Published:** JUL 2004

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#### Record 93 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

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#### Record 94 of 150

**Title:** Micromagnetic model for magnetisation processes in RE-TM based-amorphous alloys

**Author(s):** Stoleriu, L (Stoleriu, Laurentiu); Cimpoesu, D (Cimpoesu, Dorin); Stancu, A (Stancu, Alexandru); Lupu, N (Lupu, Nicoleta); Chiriac, H (Chiriac, Horia)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 272 **Pages:** E1113-E1114 **DOI:** 10.1016/j.jmmm.2003.12.631 **Supplement:** 1 **Published:** MAY 2004

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#### Record 95 of 150

**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

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#### Record 96 of 150

**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)

**Source:** APPLIED PHYSICS LETTERS **Volume:** 83 **Issue:** 18 **Pages:** 3767-3769 **DOI:** 10.1063/1.1623937 **Published:** NOV 3 2003

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**Record 97 of 150**

**Title:** The use of generalized Delta M plots in the magnetic characterization of particulate media

**Author(s):** Bissell, PR (Bissell, PR); Cerchez, M (Cerchez, M); Stoleriu, L (Stoleriu, L); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 266 **Issue:** 1-2 **Pages:** 1-7 **DOI:** 10.1016/S0304-8853(03)00448-7 **Published:** OCT 2003

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**Record 98 of 150**

**Title:** Temperature dependent integral generalized Delta-M plots and interactions in cobalt nanoparticle systems

**Author(s):** Spinu, L (Spinu, L); Stancu, A (Stancu, A); Tung, LD (Tung, LD); Fang, J (Fang, J); Postolache, P (Postolache, P); O'Connor, CJ (O'Connor, CJ)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 266 **Issue:** 1-2 **Pages:** 194-199 **DOI:** 10.1016/S0304-8853(03)00472-4 **Published:** OCT 2003

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**Record 99 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

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**Record 100 of 150**

**Title:** Micromagnetic calculation of the transverse susceptibility of patterned media

**Author(s):** Spinu, L (Spinu, L); Cimpoesu, D (Cimpoesu, D); Stoleriu, L (Stoleriu, L); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 39 **Issue:** 5 **Pages:** 2516-2518 **DOI:** 10.1109/TMAG.2003.816459 **Part:** 2 **Published:** SEP 2003

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 [ 1 | 2 | 3 ]**Record 101 of 150****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**Record 102 of 150****Title:** Limits of the Preisach model for strongly correlated particulate magnetic media**Author(s):** Cerchez, M (Cerchez, M); Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L); Bissell, PR (Bissell, PR)**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 39 **Issue:** 5 **Pages:** 2534-2536 **DOI:** 10.1109/TMAG.2003.816468 **Part:** 2 **Published:** SEP 2003**Record 103 of 150****Title:** Analysis of the composition-induced transition from relaxor to ferroelectric state in  $\text{PbFe}_{2/3}\text{W}_{1/3}\text{O}_3\text{-PbTiO}_3$  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**Record 104 of 150****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:** 10.1063/1.1566088 **Part:** 1 **Published:** MAY 15 2003**Record 105 of 150****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**Record 106 of 150****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**Record 107 of 150****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



**Record 108 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

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**Record 109 of 150**

**Title:** Preisach parameter identification for systems with negative mean field interactions

**Author(s):** Cerchez, M (Cerchez, M); Stancu, A (Stancu, A); Bissell, PR (Bissell, PR)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 38 **Issue:** 5 **Pages:** 2412-2414 **DOI:** 10.1109/TMAG.2002.803610 **Part:** 1 **Published:** SEP 2002

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**Record 110 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

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**Record 111 of 150**

**Title:** RF dynamics in nanoparticle systems with tuned strength of interactions

**Author(s):** Spinu, L (Spinu, L); Tung, LD (Tung, LD); Kolesnichenko, V (Kolesnichenko, V); Fang, J (Fang, J); Stancu, A (Stancu, A); O'Connor, CJ (O'Connor, CJ)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 38 **Issue:** 5 **Pages:** 2607-2609 **DOI:** 10.1109/TMAG.2002.803206 **Part:** 1 **Published:** SEP 2002

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**Record 112 of 150**

**Title:** New experimental method for Preisach distribution identification

**Author(s):** Cerchez, M (Cerchez, M); Bissell, PR (Bissell, PR); Stancu, A (Stancu, A)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 91 **Issue:** 10 **Pages:** 7654-7656 **DOI:** 10.1063/1.1456410 **Part:** 2 **Published:** MAY 15 2002

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**Record 113 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

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**Record 114 of 150**

**Title:** Effects of magnetic layer thickness on noise in advanced double-layer metal particle tape

**Author(s):** Bissell, PR (Bissell, PR); Mercer, T (Mercer, T); Ardeleanu, PC (Ardeleanu, PC); Stancu, A (Stancu, A); Stoleriu, L (Stoleriu, L)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 91 **Issue:** 10 **Pages:** 8739-8741 **DOI:** 10.1063/1.1447488 **Part:** 3 **Published:** MAY 15 2002

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**Record 115 of 150**

**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)

**Source:** PHYSICAL REVIEW B **Volume:** 65 **Issue:** 17 **Article Number:** 174417 **DOI:** 10.1103/PhysRevB.65.174417 **Published:** MAY 1 2002

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**Record 116 of 150**

**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:**

**DOI:** 10.1016/S0304-8853(01)01187-8 **Part:** 1 **Published:** APR 2002

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**Record 117 of 150**

**Title:** FMR investigation of the amorphous CoFeSiB glass-covered wires in the presence of mechanical tension

**Author(s):** Tufescu, FM (Tufescu, FM); Chiriac, H (Chiriac, H); Ovari, TA (Ovari, TA); Stancu, A (Stancu, A)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 242 **Pages:** 254-256 **Article Number:**

**DOI:** 10.1016/S0304-8853(01)01270-7 **Part:** 1 **Published:** APR 2002

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**Record 118 of 150**

**Title:** Relaxation and interaction effects on transverse susceptibility measurements of nanoparticle systems

**Author(s):** Spinu, L (Spinu, L); Stancu, A (Stancu, A); Tung, LD (Tung, LD); Fang, J (Fang, J); Postolache, P (Postolache, P); Srikanth, H (Srikanth, H); O'Connor, CJ (O'Connor, CJ)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 242 **Pages:** 604-607 **Article Number:**

**DOI:** 10.1016/S0304-8853(01)01074-5 **Part:** 1 **Published:** APR 2002

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**Record 119 of 150**

**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:** **DOI:** 10.1016/S0304-8853(01)01129-5 **Part:** 2 **Published:** APR 2002

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**Record 120 of 150**

**Title:** Simulation of magnetization curves with Preisach-Neel models

**Author(s):** Borcia, ID (Borcia, ID); Spinu, L (Spinu, L); Stancu, A (Stancu, A)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 242 **Pages:** 1034-1037 **Article**

**Number:** **DOI:** 10.1016/S0304-8853(01)01127-1 **Part:** 2 **Published:** APR 2002

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**Record 121 of 150**

**Title:** Effect of the second-order anisotropy constant on the transverse susceptibility of uniaxial ferromagnets

**Author(s):** Spinu, L (Spinu, L); Stancu, A (Stancu, A); O'Connor, CJ (O'Connor, CJ); Srikanth, H (Srikanth, H)

**Source:** APPLIED PHYSICS LETTERS **Volume:** 80 **Issue:** 2 **Pages:** 276-278 **DOI:** 10.1063/1.1428626 **Published:** JAN 14 2002

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**Record 122 of 150**

**Title:** Analysis of AC type magnetization processes in particulate recording media

**Author(s):** Bissell, PR (Bissell, PR); Ardeleanu, PC (Ardeleanu, PC); Postolache, P (Postolache, P); Cerchez, M (Cerchez, M); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 37 **Issue:** 4 **Pages:** 1624-1626 **DOI:** 10.1109/20.950919 **Part:** 1 **Published:** JUL 2001

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**Record 123 of 150**

**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)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 37 **Issue:** 4 **Pages:** 2353-2355 **DOI:** 10.1109/20.951170 **Part:** 1 **Published:** JUL 2001

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**Record 124 of 150**

**Title:** Micromagnetic evaluation of magnetostatic interactions distribution in structured particulate media

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

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 89 **Issue:** 11 **Pages:** 7260-7262 **DOI:** 10.1063/1.1355343 **Part:** 2 **Published:** JUN 1 2001

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**Record 125 of 150**

**Title:** Model of ferromagnetic resonance in granular magnetic solids

**Author(s):** Verdes, CG (Verdes, CG); Ruiz-Diaz, B (Ruiz-Diaz, B); Thompson, SM (Thompson, SM); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 89 **Issue:** 11 **Pages:** 7475-7477 **DOI:** 10.1063/1.1363607 **Part:** 2 **Published:** JUN 1 2001

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**Record 126 of 150**

**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)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 225 **Issue:** 3 **Pages:** 411-417 **DOI:** 10.1016/S0304-8853(00)01353-6 **Published:** APR 2001

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**Record 127 of 150**

**Title:** Evaluation of statistical and mean field magnetostatic interactions using generalized Delta M plots: Experiments and Preisach modeling

**Author(s):** Bissell, PR (Bissell, PR); Cerchez, M (Cerchez, M); Chantrell, RW (Chantrell, RW); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 36 **Issue:** 5 **Pages:** 2438-2440 **DOI:** 10.1109/20.908459 **Part:** 1 **Published:** SEP 2000

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**Record 128 of 150**

**Title:** On the optical constants of TiO<sub>2</sub> thin films. Ellipsometric studies

**Author(s):** Mardare, D (Mardare, D); Stancu, A (Stancu, A)

**Source:** MATERIALS RESEARCH BULLETIN **Volume:** 35 **Issue:** 12 **Pages:** 2017-2025 **DOI:** 10.1016/S0025-5408(00)00408-6 **Published:** SEP 2000

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**Record 129 of 150**

**Title:** Identification method analyses for the scalar generalized moving Preisach model using major hysteresis loops

**Author(s):** Andrei, P (Andrei, P); Stancu, A (Stancu, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 36 **Issue:** 4 **Pages:** 1982-1989 **DOI:** 10.1109/20.875260 **Part:** 2 **Published:** JUL 2000

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**Record 130 of 150**

**Title:** Interparticle interactions in magnetic recording media as obtained from high-order measurements by a Preisach model

**Author(s):** Stancu, A (Stancu, A); Bissell, PR (Bissell, PR); Chantrell, RW (Chantrell, RW)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 87 **Issue:** 12 **Pages:** 8645-8652 **DOI:** 10.1063/1.373591 **Published:** JUN 15 2000

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**Record 131 of 150**

**Title:** ac demagnetization of particulate and thin film recording media

**Author(s):** Bissell, PR (Bissell, PR); Cerchez, M (Cerchez, M); Stancu, A (Stancu, A)

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 87 **Issue:** 9 **Pages:** 5660-5662 **DOI:** 10.1063/1.372481 **Part:** 2 **Published:** MAY 1 2000

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**Record 132 of 150**

**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)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 36 **Issue:** 1 **Pages:** 386-394 **DOI:** 10.1109/20.822552 **Part:** 2 **Published:** JAN 2000

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**Record 133 of 150**

**Title:** Hysteresis in particulate recording media. Experiment and simulation with Preisach and Jiles-Atherton models

**Author(s):** Andrei, P (Andrei, P); Stancu, A (Stancu, A)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 206 **Issue:** 3 **Pages:** 160-164 **DOI:** 10.1016/S0304-8853(99)00497-7 **Published:** DEC 1999

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**Record 134 of 150**

**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)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 196 **Pages:** 362-364 **DOI:** 10.1016/S0304-8853(98)00750-1 **Published:** MAY 1999

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**Record 135 of 150**

**Title:** Interactions characterisation in particulate magnetic recording media. Experiments and Preisach model

**Author(s):** Stancu, A (Stancu, A); Bissell, PR (Bissell, PR); Chantrell, RW (Chantrell, RW)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 193 **Issue:** 1-3 **Pages:** 395-398 **DOI:** 10.1016/S0304-8853(98)00461-2 **Published:** MAR 1999

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**Record 136 of 150**

**Title:** Temperature- and time-dependent Preisach model for a Stoner-Wohlfarth particle system

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 34 **Issue:** 6 **Pages:** 3867-3875 **DOI:** 10.1109/20.728296 **Published:** NOV 1998

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**Record 137 of 150**

**Title:** Modelling magnetic relaxation phenomena in fine particles systems with a Preisach-Neel model

**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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**Record 138 of 150**

**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)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 34 **Issue:** 4 **Pages:** 1138-1140 **DOI:** 10.1109/20.706417 **Part:** 1 **Published:** JUL 1998

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**Record 139 of 150**

**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)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 34 **Issue:** 4 **Pages:** 2213-2219 **DOI:** 10.1109/20.703858 **Part:** 2 **Published:** JUL 1998

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**Record 140 of 150**

**Title:** Differential Preisach model for the description of dynamic magnetization processes

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

**Source:** JOURNAL OF APPLIED PHYSICS **Volume:** 83 **Issue:** 11 **Pages:** 6359-6361 **DOI:** 10.1063/1.367688 **Part:** 2 **Published:** JUN 1 1998

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**Record 141 of 150**

**Title:** Differential phenomenological models for the magnetization processes in soft MnZn ferrites

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 34 **Issue:** 1 **Pages:** 231-241 **DOI:** 10.1109/20.650244 **Part:** 2 **Published:** JAN 1998

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**Record 142 of 150**

**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)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 174 **Issue:** 3 **Pages:** 236-246 **DOI:** 10.1016/S0304-8853(97)00203-5 **Published:** OCT 1997

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**Record 143 of 150**

**Title:** Crossover condition in the coherent rotation model and the Preisach-type models

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

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 33 **Issue:** 4 **Pages:** 2573-2579 **DOI:** 10.1109/20.595917 **Published:** JUL 1997

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**Record 144 of 150**

**Title:** Numerical implementation of mixed-type models for recording media magnetization processes

**Author(s):** Stancu, A (Stancu, A)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 155 **Issue:** 1-3 **Pages:** 22-24 **DOI:** 10.1016/0304-8853(95)00678-8 **Published:** MAR 1996

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**Record 145 of 150**

**Title:** MIXED-TYPE MODELS OF HYSTERESIS

**Author(s):** STANCU, A (STANCU, A); PAPUSOI, C (PAPUSOI, C); SPINU, L (SPINU, L)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 150 **Issue:** 1 **Pages:** 124-130 **DOI:** 10.1016/0304-8853(95)00110-7 **Published:** SEP 1995

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**Record 146 of 150**

**Title:** RELAXATION PHENOMENA IN A SYSTEM OF INTERACTING STONER-WOHLFARTH PARTICLES

**Author(s):** STANCU, A (STANCU, A); PAPUSOI, C (PAPUSOI, C)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 145 **Issue:** 3 **Pages:** 385-387 **DOI:** 10.1016/0304-8853(95)00011-9 **Published:** MAR 1995

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**Record 147 of 150**

**Title:** HYSTERESIS MODELING OF RECORDING MEDIA WITH AN INTERACTING STONER-WOHLFARTH PARTICLES SYSTEM

**Author(s):** STANCU, A (STANCU, A); PAPUSOI, C (PAPUSOI, C)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 30 **Issue:** 6 **Pages:** 4308-4310 **DOI:** 10.1109/20.334070 **Part:** 1 **Published:** NOV 1994

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**Record 148 of 150**

**Title:** PARTICLE ORIENTATION DISTRIBUTION AND THE ISOTHERMAL REMANENT MAGNETIZATION OF A FINE-PARTICLE SYSTEM

**Author(s):** STANCU, A (STANCU, A); PAPUSOI, C (PAPUSOI, C)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 30 **Issue:** 5 **Pages:** 2750-2754 **DOI:** 10.1109/20.312515 **Part:** 1 **Published:** SEP 1994

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**Record 149 of 150**

**Title:** FIELD-DEPENDENCE OF THE REMANENT MAGNETIZATION FOR THIN-FILMS CONTAINING FERRIMAGNETIC PARTICLES

**Author(s):** STANCU, A (STANCU, A); PAPUSOI, C (PAPUSOI, C)

**Source:** JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS **Volume:** 134 **Issue:** 1 **Pages:** 190-194 **DOI:** 10.1016/0304-8853(94)90091-4 **Published:** MAY 1994

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**Record 150 of 150**

**Title:** ANHYSTERETIC REMANENT SUSCEPTIBILITY AND THE MOVING PREISACH MODEL

**Author(s):** PAPUSOI, C (PAPUSOI, C); STANCU, A (STANCU, A)

**Source:** IEEE TRANSACTIONS ON MAGNETICS **Volume:** 29 **Issue:** 1 **Pages:** 77-81 **DOI:** 10.1109/20.195550 **Part:** 1 **Published:** JAN 1993

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