

ANMM 2007
-- TECHNICAL PROGRAMME --

WEDNESDAY August 29, 2007	
9:20 – 9:30	OPENING SESSION
Plenary Session 1 / Chair: A. STANCU	
9:30 – 10:30	IEEE Magnetics Society Distinguished Lecturer for 2007 Sara A. MAJETICH <i>Carnegie Mellon University, USA</i> MAGNETIC NANOPARTICLES: NANOSCALE IMAGING AND DESIGN OF PARTICLES FOR BIOMEDICINE AND DATA STORAGE MEDIA
10:30 – 11:00	I1 R. GRÖSSINGER <i>Institut f. Festkörperphysik, Technische Universität Wien, Vienna, Austria</i> MAGNETO ELECTRIC MATERIALS: SINGLE PHASE VERSUS COMPOSITES
11:00 – 11:30	COFFEE BREAK
Plenary Session 2 / Chair: S.A. MAJETICH	
11:30 – 12:00	I2 J.N. CHAPMAN, B.R. CRAIG, C. BROWNLIE and S. MCVITIE <i>Department of Physics & Astronomy, University of Glasgow, United Kingdom</i> COMPLEX DOMAIN BEHAVIOUR IN MULTILAYERS AND NANOELEMENTS
12:00 – 12:30	I3 D. MÉNARD, L.-P. CARIGNAN, V. BOUCHER, F. BÉRON, A. YELON <i>Département de Génie Physique and Réseau Québécois sur des Matériaux de Pointe (RQMP), École Polytechnique, Montréal, Québec, Canada</i> ELECTROMAGNETIC BEHAVIOR OF FERROMAGNETIC NANOWIRE ARRAYS
12:30 – 13:00	I4 D. PETIT, A.-V. JAUSOVEC, E. LEWIS, D. READ, H. T. ZENG, L. O'BRIEN and R.P. COWBURN <i>Department of Physics, Blackett Laboratory, Imperial College London, United Kingdom</i> DOMAIN WALL LOGIC AND ULTRAHIGH DENSITY DATA STORAGE
13:00 – 15:00	LUNCH
Plenary Session 3 / Chair: R. GRÖSSINGER	
15:00 – 15:30	I5 D. ATKINSON¹, M.T. BRYAN², L.K. BOGART¹, D.A. ALLWOOD² <i>¹Department of Physics, Durham University, United Kingdom</i> <i>²Department of Engineering Materials, Sheffield University, United Kingdom</i> MAGNETIC DOMAIN WALL BEHAVIOUR IN PLANAR NANOWIRES WITH TRANSVERSE FIELDS
15:30 – 15:50	O.1 I. DUMITRU, A. STANCU <i>Department of Solid State & Theoretical Physics, Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania</i> EFFECTS OF THE IN-PLANE AND OUT-OF-PLANE INTERACTION FIELDS ON THE FERROMAGNETIC RESONANCE CONDITION OF MAGNETIC NANOWIRES SYSTEMS

15:50 – 16:10	<p>O.2 <u>R. SATO TURTELLI*</u>, W.C. NUNES**, G.V. DUONG*, R. GRÖSSINGER*, M. KNOBEL** <i>*Institut f. Festkörperphysik, Technische Universität Wien, Vienna, Austria</i> <i>**Istituto de Física, Universidade Estadual de Campinas, Campinas (SP), Brasil</i></p> <p>INFLUENCE OF Zn-SUBSTITUTION ON LOW FIELD MAGNETIC PROPERTIES OF NANOSIZED COBALT FERRITES</p>
16:10 – 16:40	<p>I.6 <u>N.A. MORLEY, S. RIGBY, M.R.J. GIBBS</u> <i>Dept. of Engineering Materials, University of Sheffield, United Kingdom</i></p> <p>ANISOTROPY AND MAGNETOSTRICTION CONSTANTS OF NANOSTRUCTURED Fe₅₀Co₅₀ FILMS</p>
16:40 – 18:00	<p>POSTER SESSION & COFFEE</p>
19:30 – 22:00	<p>CONFERENCE DINNER</p>

THURSDAY
August 30, 2007

Plenary Session 4 / Chair: J.N. CHAPMAN

9:00 – 9:30	I.7 D.C. JILES, Y. MELIKHOV, J.E. SNYDER, R.L. HADIMANI <i>Wolfson Centre for Magnetism, Cardiff University, Cardiff, United Kingdom</i> PHASE TRANSITIONS IN NANOSTRUCTURED TERNARY RARE EARTH COMPOUNDS $Gd_5(Si_xGe_{1-x})_4$ AND $Pr_{(n+2)(n+1)}Ni_{n(n-1)+2}Si_{n(n+1)}$
9:30 – 10:00	I.8 D. NIARCHOS <i>IMS, NCSR "Demokritos", Athens, Greece</i> NANOMATERIALS AND TECHNOLOGIES FOR ENERGY PRODUCTION AND STORAGE
10:00 – 10:30	I.9 C.P. SASSO <i>Istituto Nazionale di Ricerca Metrologica, Torino, Italy</i> NEGATIVE AND POSITIVE MAGNETOCALORIC EFFECT IN Ni-Mn-Sn
10:30 – 11:00	COFFEE BREAK

Plenary Session 5 / Chair: D.C. JILES

11:00 – 11:30	I.10 M. MARINESCU¹, J.F. LIU¹, G. HADJIPANAYIS² ¹ <i>Electron Energy Corporation, Landisville, PA 17538, USA</i> ² <i>University of Delaware, Newark, DE 19716, USA</i> RECENT EFFORTS IN DEVELOPING NANOSTRUCTURED, COMPOSITE AND HYBRID PERMANENT MAGNETS
11:30 – 12:00	I.11 I. ŠKORVÁNEK¹, P. ŠVEC², J. MARCIN¹, J. TURCANOVÁ¹, J. KOVÁČ¹, D. JANICKOVIC² ¹ <i>Institute of Experimental Physics, Slovak Academy of Sciences, Košice, Slovakia</i> ² <i>Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia</i> NANOCRYSTALLINE $R_{e}(Co,Ni)$-BASED ALLOYS WITH TAILORABLE SOFT MAGNETIC PROPERTIES
12:00 – 12:30	I.12 A. STANCU <i>Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania</i> SIMULATION OF HYSTERETIC PROCESSES IN NANOSTRUCTURED SYSTEMS
12:30 – 14:30	LUNCH

Plenary Session 6 / Chair: I. ŠKORVÁNEK

14:30 – 15:00	I.13 V. CROS¹, O. BOULLE^{1,2}, J. GROLLIER¹, C. DERANLOT¹, F. PETROFF¹, G. FAINI², J. BARNAS³, A. FERT¹ ¹ <i>Unité Mixte de Physique CNRS/Thales and Université Paris Sud XI, Palaiseau, France</i> ² <i>LPN/CNRS, Marcoussis, France</i> ³ <i>AMU, University of Poznan, Poland</i> SHAPING THE ANGULAR DEPENDENCE OF THE SPIN TRANSFER TORQUE FOR MICROWAVE EMISSION WITHOUT APPLIED FIELD
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15:00 – 15:20	<p>O.3 R. TANASA¹, E. CODJOVI², J. LINARES², F. VARRET², A. STANCU¹, J.-F. LETARD³ ¹<i>Department of Solid State & Theoretical Physics, Faculty of Physics, “Al. I. Cuza” University, Iasi, Romania</i> ²<i>Groupe d'Etude de la Matière Condensée (GEMaC), Université de Versailles, CNRS-UMR 8635, France</i> ³<i>Groupe des Sciences Moléculaires, Institut de Chimie de la Matière Condensée de Bordeaux, UPR No. 9048 CNRS-Université Bordeaux I, Pessac, France</i></p> <p>PRESSURE AND TEMPERATURE EFFECT IN MULTIFERROICS SPIN TRANSITION COMPOUNDS</p>
15:20 – 15:50	<p>I.14 M. MUHAMMED <i>Materials Chemistry Division, Materials Science and Engineering, Royal Institute of Technology, Stockholm, Sweden</i></p> <p>TO BE DEFINED</p>
15:50 – 17:00	POSTER SESSION & COFFEE / BIERSTUBE
17:00 – 18:00	LABTOUR
19:30 – 21:00	DINNER

FRIDAY
August 31, 2007

Plenary Session 7 / Chair: D. NIARCHOS

9:00 – 9:30	I.15 A. MAKINO¹, T. KUBOTA¹, H. MEN², K. YUBUTA¹, A. INOUE³ <i>¹Institute for Materials Research, Tohoku University, Sendai, Japan</i> <i>²Graduate School of Engineering, Tohoku University, Sendai, Japan</i> <i>³Tohoku University, Sendai, Japan</i> Fe-BASED HETERO-AMORPHOUS ALLOY WITH HIGH Fe CONTENT EXCEEDING THE LIMIT FOR THE FORMATION OF A SINGLE AMORPHOUS PHASE
9:30 – 10:00	I.16 E. QUANDT <i>University of Kiel, Faculty of Engineering, Institute for Materials Science, Chair for Inorganic Functional Materials, Kiel, Germany</i> <i>Center of Advanced European Studies and Research (CAESAR), Bonn, Germany</i> MAGNETOELECTRONICAL SENSORS FOR MECHANICAL MEASUREMENTS
10:00 – 10:30	I.17 V. IN¹, A. KHO¹, A. BULSARA¹, A. PALACIOS², S. BAGLIO³, H. CHIRIAC⁴ <i>¹Space and Naval Warfare Systems Center San Diego, San Diego, CA 92152-5001, USA</i> <i>²Nonlinear Dynamical Systems Group, Department of Mathematics, San Diego State University, San Diego, CA 92182, USA</i> <i>³Dip. di Ingegneria, Univ. degli Studi di Catania, Catania, Italy</i> <i>⁴National Institute of Research and Development for Technical Physics, Iasi, Romania</i> COUPLED-CORE MAGNETIC SENSOR: A NEW OPERATING PARADIGM
10:30 – 10:50	O.4 M.C. HICKEY, D. ATKINSON^a, C.H. MARROWS and B.J. HICKEY <i>University of Leeds, United Kingdom</i> <i>^aUniversity of Durham, United Kingdom</i> DOMAIN WALL NUCLEATION AND MANIPULATION BY APPLIED CURRENT IN NANOCONSTRICTIONS
10:50 – 11:20	COFFEE BREAK

Plenary Session 8 / Chair: E. QUANDT

11:20 – 11:50	I.18 X.P. LI¹, H.L. SEET¹, J.B. YI¹, H. CHIRIAC² <i>¹National University of Singapore, Singapore</i> <i>²National Institute of Research and Development for Technical Physics, Iasi, Romania</i> Ni₈₀Fe₂₀/SiO₂/Cu/SiC₂/Ni₈₀Fe₂₀ COMPOSITE WIRE MADE BY ELECTRODEPOSITION ON Ni₈₀Fe₂₀ SEED LAYERED GLASS COATED COPPER WIRE AND ITS CHARACTERISTICS
11:50 – 12:20	I.19 O. CRISAN^{1,2}, K. VON HAEFTEN¹, A.M. ELLIS³, C. BINNS¹ <i>¹Condensed Matter Physics CMP, University of Leicester, Leicester, United Kingdom</i> <i>²National Institute for Materials Physics, Bucharest-Magurele, Romania</i> <i>³Department of Chemistry, University of Leicester, Leicester, United Kingdom</i> FREE CLUSTER AGGREGATION SYNTHESIS METHOD, AS A PATH FOR SURFACE-FUNCTIONALIZED CORE-SHELL NANOPARTICLES
12:20 – 12:40	O.5 A.C. GALCA <i>National Institute for Materials Physics, Bucharest-Magurele, Romania</i>

	MAGNETIC PROPERTIES OF SELF-ASSEMBLED MAGNETITE THIN FILMS
12:40 – 13:00	O.6 M. PANA, A. MARIN, O. ALUPEI, D. COMANESCU <i>University POLITEHNICA of Bucharest, Romania</i> NANOSCIENCE ACTIVITY IN UNIVERSITY POLITEHNICA OF BUCHAREST
13:00 – 13:15	CLOSING REMARKS
13:15 – 14:30	LUNCH

POSTER SESSION

Chair: N. LUPU

P.1	<p>A.D. CRISAN¹, N. RANDRIANANTOANDRO², M. MORARIU¹, O. CRISAN¹ ¹National Institute for Materials Physics, Bucharest-Magurele, Romania ²Laboratoire de Physique de l'Etat Condense, UMR CNRS 6034, Universite du Maine, Le Mans, France</p> <p>NANOCRYSTALLINE Fe-Pt-Nb-B ALLOYS AS NOVEL NANOCOMPOSITE MAGNETS</p>
P.2	<p>H. CHIRIAC, M. GRIGORAS, N. LUPU, M. URSE National Institute of Research and Development for Technical Physics, Iasi, Romania</p> <p>STRATIFICATION EFFECT OF Nd-Fe-B SINGLE LAYER ON MAGNETIC AND STRUCTURAL PROPERTIES OF MULTILAYER [NdFeB/A]_n FILMS</p>
P.3	<p>H. CHIRIAC, M. GRIGORAS, N. LUPU, M. URSE, V. BUTA National Institute of Research and Development for Technical Physics, Iasi, Romania</p> <p>THE INFLUENCE OF THE LAYERS THICKNESS AND ANNEALING CONDITIONS ON THE MAGNETIC PROPERTIES OF THE MULTILAYER [NdFeBNbCu/FeBSi] x n SYSTEM</p>
P.4	<p>M. GJOKA¹, D. NIARCHOS¹, C. SARAFIDIS², O. KALOGIROU², M. GRIGORAS³, N. LUPU³, H. CHIRIAC³ ¹Institute of Materials Science, N.C.S.R. "Demokritos", Athens, Greece ²Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece ³National Institute of Research and Development for Technical Physics, Iasi, Romania</p> <p>STRUCTURE AND MAGNETIC PROPERTIES OF Pr(Fe,Co,Ti,Cu,Zr)_{9.66} MELT-SPUN NANOSTRUCTURED ALLOYS</p>
P.5	<p>M. GJOKA¹, D. NIARCHOS¹, C. SARAFIDIS², O. KALOGIROU², M. GRIGORAS³, N. LUPU³, H. CHIRIAC³ ¹Institute of Materials Science, N.C.S.R. "Demokritos", Athens, Greece ²Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece ³National Institute of Research and Development for Technical Physics, Iasi, Romania</p> <p>STRUCTURE AND MAGNETIC PROPERTIES OF THE Sm(Co_{0.74}Fe_{0.1}Cu_{0.12}Zr_{0.04})_Y MELT-SPUN NANOSTRUCTURED RIBBONS</p>
P.6	<p>M. NEAGU¹, M. DOBROMIR¹, C. AGHEORGHIESEI¹, S. STRATULAT¹, L. VELICU¹, C. HISON² ¹Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania ²COHERENTIA CNR-INFM and PROMETE spin-off CNR-INFM, Università "Federico II", Napoli, Italy</p> <p>ELLIPSOMETRIC AND MAGNETO-OPTICAL INVESTIGATION OF FeSiB AMORPHOUS THIN FILMS</p>
P.7	<p>D.M. KEPAPTSOGLOU^{1,2}, B. KOOI³, P. SVEC⁴, D. JANICKOVIC⁴, E. HRISTOFOROU¹ ¹Laboratory of Physical Metallurgy, National Technical University of Athens, Greece ²Group of Physics, Oslo University, Oslo, Norway ³Department of Applied Physics, University of Groninger, Groningen, The Netherlands ⁴Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia</p> <p>PARTITION OF Si IN Fe₆₀Co₂₀Si₅B₁₅ RIBBONS</p>
P.8	<p>T. PAPAIOANNOU¹, P. SVEC², D. JANICKOVIC², S. KRIBALIS¹, E. HRISTOFOROU¹ ¹National Technical University of Athens, Athens, Greece ²Slovak Academy of Sciences, Bratislava, Slovakia</p> <p>PHASE TRANSFORMATIONS IN Co-ENHANCED FINEMET AMORPHOUS RIBBONS</p>
P.9	<p>M. NEAGU¹, C.H. CHIRIAC^{1,2}, H. CHIRIAC³ ¹"Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, Romania ²"Gheorghe Asachi" Technical University, Iasi, Romania ³National Institute of Research and Development for Technical Physics, Iasi, Romania</p>

	MAGNETOSTRICTIVE BEHAVIOUR IN $\text{Co}_{72.5x}\text{Fe}_x\text{Si}_{12.5}\text{B}_{15}$ (X=1 - 3) GLASS COVERED AMORPHOUS WIRES
P.10	G. ABABEI^{1,2}, H. CHIRIAC¹ ¹ National Institute of Research and Development for Technical Physics, Iasi, Romania ² "Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, Romania THE THERMAL TREATMENTS EFFECT ON THE FMR RESPONSE OF Co-BASED MICROWIRES
P.11	H. CHIRIAC, S. CORODEANU, T.-A. ÓVÁRI National Institute of Research and Development for Technical Physics, Iasi, Romania EFFECT OF MICROWIRE ENDS ON THE MAGNETOSTATIC INTERACTION BETWEEN AMORPHOUS MICROWIRES
P.12	H. CHIRIAC, T.-A. ÓVÁRI, S. CORODEANU, G. ABABEI National Institute of Research and Development for Technical Physics, Iasi, Romania INVESTIGATION OF THE INTERDOMAIN WALLS IN NEARLY ZERO MAGNETOSTRICTIVE AMORPHOUS MICROWIRES
P.13	P. POSTOLACHE¹, N. LUPU², H. CHIRIAC², A. STANCU¹ ¹ Department of Solid States and Theoretical Physics & CARPATH, "Alexandru Ioan Cuza" University, Iasi, Romania ² National Institute of Research and Development for Technical Physics, Iasi, Romania MODELS FOR INTERACTING SYSTEMS OF MAGNETOSTRICTIVE SINGLE-DOMAIN PARTICLES
P.14	C. ROTARESCU, A. STANCU "Alexandru Ioan Cuza" University, Faculty of Physics, Department of Solid State and Theoretical Physics, Iasi, Romania MAGNETIC RELAXATION IN ISING-PREISACH SYSTEMS
P.15	F. CIUBOTARU, L. STOLERIU, A. STANCU Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania MICROMAGNETIC ANALYSIS OF SWITCHING PROBABILITY IN TOGGLE MODE
P.16	I. BODALE, A. STANCU "Alexandru Ioan Cuza" University, Faculty of Physics & CARPATH, Iasi, Romania THE TEMPERATURE DEPENDENCE OF THE MAXIMUM RELAXATION RATE FOR A TWO-LEVEL SYSTEM WITH INTERACTIONS
P.17	C.S. OLARIU, A. STANCU "Alexandru Ioan Cuza" University, Faculty of Physics, Department of Solid State and Theoretical Physics, Iasi, Romania STONER-WOHLFARTH MODEL FOR THE CRITICAL CURVES OF A SAF STRUCTURE IN A MRAM CELL
P.18	S. MOHORIANU¹, M. AGOP², P. VIZUREANU² ¹ LMEN Department, National Institute of Research and Development for Technical Physics, Iasi, Romania ² Department of Physics, "Gheorghe Asachi" Technical University, Iasi, Romania DENDRITIC MORPHOGENESIS PROCESS THROUGH THE FRACTAL SPACE-TIME THEORY
P.19	S. MOHORIANU¹, F.-V. RUSU¹, M. LOZOVAN¹ ¹ National Institute of Research and Development for Technical Physics, Iasi, , Romania A NEW TECHNIQUE TO STUDY THE MAGNETIC NANOMATERIALS – THE VIRTUAL EXPERIMENT
P.20	I. ASTEFANOAEI*, H. CHIRIAC**, A. STANCU* *Department of Solid State & Theoretical Physics, Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania **National Institute of Research and Development for Technical Physics, Iasi, Romania THE THERMAL STRESSES INDUCED IN A Co NANOWIRE FROM ALUMINA MEMBRANE DURING THE COOLING PROCESS

P.21	H. CHIRIAC, P. PASCARIU, S. CORODEANU, G. ABABEI, N. LUPU <i>National Institute of Research and Development for Technical Physics, Iasi, Romania</i> HIGH FREQUENCY MAGNETOIMPEDANCE EFFECT IN NiFe/Cu MULTILAYERED NANOWIRES
P.22	H. CHIRIAC, P. PASCARIU, G. ABABEI, M. GRIGORAS, N. LUPU <i>National Institute of Research and Development for Technical Physics, Iasi, Romania</i> MAGNETIZATION AND MAGNETOTRANSPORT PROCESSES IN CoFeNiB AND CoNiP AMORPHOUS ELECTRODEPOSITED THIN FILMS AND NANOWIRES
P.23	L.I BURUIANA, D.D. HEREA, H. CHIRIAC <i>National Institute of Research and Development for Technical Physics, Iasi, Romania</i> IN VITRO EXPERIMENTAL MODEL FOR SIMULATING MAGNETIC EMBOLIZATION AS POSSIBLE CANCER THERAPY
P.24	L.I. BURUIANA¹, D.D. HEREA^{1,2}, H. CHIRIAC¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania</i> PREPARATION AND MAGNETIC PROPERTIES OF MAGNETITE-COATED PVA NANOPARTICLES FOR BIOMEDICAL APPLICATIONS
P.25	V. BADESCU¹, L.E. UDREA¹, O. ROTARIU¹, R. BADESCU², G. APREOTESEI² <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Gheorghe Asachi” Technical University, Iasi, Romania</i> SOME EXPERIMENTAL RESULTS ON ENCAPSULATION OF PHENOLS IN SUPERPARAMAGNETIC POLYMER NANOSPHERES
P.26	V. BADESCU¹, L.E. UDREA¹, O. ROTARIU¹, R. BADESCU², G. APREOTESEI² <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Gheorghe Asachi” Technical University, Iasi, Romania</i> PREPARATION AND CHARACTERIZATION OF UNIFORM CALCIUM ALGINATE MAGNETIC BEADS BY MICROFLUIDIC TECHNIQUES
P.27	A.E. MOGA¹, C. GHERASIM^{1,2}, H. CHIRIAC¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania</i> PREPARATION AND CHARACTERIZATION OF Co AND Ni MAGNETIC NANOPARTICLES
P.28	A.E. MOGA¹, N. LUPU¹, C. GHERASIM^{1,2}, H. CHIRIAC¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania</i> SYNTHESIS AND MAGNETIC PROPERTIES OF Co-B, Ni-B AND Co-Ni-B AMORPHOUS NANOPARTICLES
P.29	G. STOIAN^{1,2}, M. LOSTUN¹, H. CHIRIAC¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²“Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania</i> MAGNETORHEOLOGICAL FLUIDS BASED ON AMORPHOUS CoFeSiB AND FeSiB PARTICLES
P.30	V. PASCARIU and D.D. SANDU <i>Department of Solid State & Theoretical Physics, Faculty of Physics, “Alexandru Ioan Cuza” University, Iasi, Romania</i> DIELECTRIC CHARACTERIZATION IN CaTiO₃ BY TIME DOMAIN REFLECTOMETRY
P.31	L. MITOSERIU¹, V. BUSCAGLIA², L. CURECHERIU¹, F. PRIHOR¹ <i>¹Department. of Solid State & Theoretical Physics, Faculty of Physics, “Alexandru Ioan Cuza” University, Iasi, Romania</i> <i>²Institute for Energetics & Interphases - CNR, Genoa, Italy</i> MICROSTRUCTURE-RELATED MAGNETIC PROPERTIES IN BaTiO₃-(Ni,Zn)Fe₂O₄ MULTIFERROIC COMPOSITES

P.32	L.P. CURECHERIU, C.E. CIOMAGA, L. MITOSERIU, F.M. TUFESCU <i>Department. of Solid State & Theoretical Physics, Faculty of Physivs, “Alexandru Ioan Cuza” University, Iasi, Romania</i> TUNABILITY PROPERTIES OF BaTiO₃ – BASED SOLID SOLUTIONS UNDER DC ELECTRIC FIELD
P.33	L. MITOSERIU¹, A. IANCULESCU², L.P. CURECHERIU¹ <i>¹Department. of Solid State & Theoretical Physics, Faculty of Physivs, “Alexandru Ioan Cuza” University, Iasi, Romania</i> <i>²Polytechnica University of Bucharest, Bucharest, Romania</i> RELAXOR PROPERTIES OF THE Nb-DOPED PZT(52/48) CERAMICS
P.34	L.P. CURECHERIU, F. PRIHOR, A. GUZU, L. MITOSERIU <i>Department. of Solid State & Theoretical Physics, Faculty of Physivs, “Alexandru Ioan Cuza” University, Iasi, Romania</i> FREQUENCY-DEPENDENCE OF THE COMPLEX PERMITTIVITY IN Ni_{0.50}Zn_{0.50}Fe₂O₄ CERAMICS
P.35	V. VILCEANU¹, M. FEDER², I. DUMITRU³, O. F. CALTUN³ <i>¹AferoExim SRL, Bucharest, Romania</i> <i>²National Institute of Material Physics, Bucharest-Magurele, Romania</i> <i>³Faculty of Physics and Carpath Center, “Alexandru Ioan Cuza” University, Iasi Romania</i> THE INFLUENCE OF TEMPERATURE ON PERMEABILITY SPECTRA OF COBALT FERRITES
P.36	C. MITA¹, M.-L. CRAUS^{2,3}, N. CORNEI¹, M. LOZOVAN² <i>¹“Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, Romania</i> <i>²National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>³Joint Institute for Nuclear Research, Dubna, Mosk.Region, Russia</i> EXTRINSIC/INTRINSIC MAGNETORESISTANCE IN La_{0.54}Ho_{0.11}Sr_{0.35}Co_xMn_{1-x}O₃
P.37	M.-L. CRAUS^{1,2}, N. CORNEI³, M. LOZOVAN¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>²Joint Institute for Nuclear Research, Dubna, Mosk.Region, Russia</i> <i>³“Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, Romania</i> COPPER INFLUENCE ON MAGNETIC/CRYSTALLINE STRUCTURE AND TRANSPORT PROPERTIES OF La_{0.54}Ho_{0.11}Sr_{0.35}Mn_{1-x}Cu_xO₃
P.38	N. CORNEI¹, M.-L. CRAUS^{2,3}, M. LOZOVAN² <i>¹“Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, Romania</i> <i>²National Institute of Research and Development for Technical Physics, Iasi, Romania</i> <i>³Joint Institute for Nuclear Research, Dubna, Mosk.Region, Russia</i> CORRELATION BETWEEN PHYSICAL PROPERTIES AND NATURE OF T CATION SUBSTITUTION IN La_{0.54}Ho_{0.11}Sr_{0.35}Mn_{1-x}T_xO₃
P.39	O. DRAGOS¹, L. PINSARD-GAUDART¹, N. DRAGOE¹, S. FRANGER¹, O. SCHNEEGANS², A. MORADPOUR³, A. REVCOLEVSCHI¹ <i>¹Institut de Chimie Moléculaire et des Matériaux d'Orsay, UMR 8182 of CNRS, University Paris-Sud, Orsay, France</i> <i>²Laboratoire de Génie Electrique de Paris, UMR 8507 of CNRS, Paris VI and Paris-Sud Universities, Supélec, Gif-sur-Yvette, France</i> <i>³Laboratoire de Physique des Solides, UMR C8502 of CNRS, University Paris-Sud, Orsay, France</i> SYNTHESIS AND CHARACTERIZATION OF Na_xCoO₂ SINGLE-CRYSTALS
P.40	G. CARJA¹, D. MANTU², N. LUPU², H. CHIRIAC² <i>¹Department of Physical Chemistry, Faculty of Industrial Chemistry, “Gheorghe Asach i” Technical University, Iasi, Romania</i> <i>²National Institute of Research and Development for Technical Physics, Iasi, Romania</i> CLAYS AS ENSEMBLES OF NANOPARTICLES WITH DESIGNED MAGNETIC PROPERTIES: THE CASE OF THE SUPPORTED LDHs
P.41	D.D. HEREA^{1,2}, H. CHIRIAC¹ <i>¹National Institute of Research and Development for Technical Physics, Iasi, Romania</i>

	<p>²<i>“Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania</i> HIGH SENSITIVE GMI BIOSENSOR BASED ON GLASS-COATED MICROWIRES ARRAY FOR BIOMEDICAL ASSAYS</p>
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