

2015 IEEE International Magnetics Conference (INTERMAG 2015)

**Beijing, China
11-15 May 2015**

Pages 1-659



**IEEE Catalog Number: CFP15INM-POD
ISBN: 978-1-4799-7323-1**

TABLE OF CONTENTS

AA-01 - HIGH DENSITY HEAT ASSISTED MAGNETIC RECORDING MEDIA AND ADVANCED CHARACTERIZATION — PROGRESS AND CHALLENGES	1
<i>Ju, G. ; Peng, Y. ; Chang, K. ; Ding, Y. ; Wu, A.Q. ; Zhu, X. ; Amini, H. ; Klemmer, T.J. ; Kubota, Y. ; Gao, L. ; Fan, Z. ; Wang, K. ; Rausch, T. ; Subedi, P. ; Kalarickal, S. ; Dimitrov, D. ; Ma, M. ; Rea, C.J. ; Karns, D.W. ; Chen, X. ; Dykes, J.W. ; Seigler, M.A. ; Gage, E. ; Chantrell, R. ; Thiele, J.</i>	
AA-02 - SIMULATION OF EXPECTED AREAL DENSITY GAIN FOR HEAT ASSISTED MAGNETIC RECORDING	2
<i>Victora, R.H. ; Dong, Y. ; Huang, P. ; Wang, S. ; Wang, Y.</i>	
AA-03 - HAMR RECORDING CHALLENGES AT HIGH LINEAR DENSITIES	3
<i>Bertero, G. ; Alex, M. ; Valcu, B. ; Eaton, R.</i>	
AA-04 - SHORT PULSE LASER HEATING FOR HAMR: DENSITY POTENTIAL AND IMPLEMENTATION ISSUES	4
<i>Xu, B. ; Wang, H. ; Cen, Z. ; Liu, Z. ; Ye, K. ; Yang, H. ; Zhang, J. ; Li, J.</i>	
AA-05 - CHALLENGES IN DEVELOPING FEPT L10 GRANULAR THIN FILM MEDIA FOR HEAT ASSISTED MAGNETIC RECORDING (HAMR).....	5
<i>Hellwig, O.</i>	
AA-06 - MAGNETOMETRY-BASED ORDER PARAMETER TO PROBE THE A1 TO L10 TRANSFORMATION IN FECUPT FOR HEAT-ASSISTED MAGNETIC RECORDING MEDIA.....	6
<i>Gilbert, D.A. ; Liao, J. ; Wang, L. ; Lau, J.W. ; Klemmer, T.J. ; Thiele, J. ; Lai, C. ; Liu, K.</i>	
AB-01 - DOMAIN WALL PINNING FOR RACETRACK MEMORY USING EXCHANGE BIAS	7
<i>Polenciu, I. ; Vick, A.J. ; Allwood, D.A. ; Hayward, T.J. ; Vallejo-Fernandez, G. ; Hirohata, A. ; O'Grady, K.</i>	
AB-02 - STOCHASTIC MEMRISTIVE SYNAPSES FROM SPIN-TRANSFER TORQUE MAGNETIC TUNNEL JUNCTIONS	8
<i>Vincent, A.F. ; Locatelli, N. ; Larroque, J. ; Zhao, W. ; Klein, J. ; Galdin-Retailleau, S. ; Querlioz, D.</i>	
AB-03 - A MULTI-LEVEL CELL FOR STT-MRAM REALIZED BY CAPPING LAYER ADJUSTMENT	9
<i>Wang, M. ; Peng, S. ; Zhang, Y. ; Zhang, Y. ; Ravelosona, D. ; Zhao, W. ; Zhang, Q.</i>	
AB-04 - DOMAIN WALLS IN PT/CO/PT INFLUENCED BY MICROSTRUCTURE, STRAIN AND THE DZVALOSHINSKII-MORIYA INTERACTION	10
<i>Moore, T.</i>	
AB-05 - LASER POWERED MAGNETIC-RANDOM ACCESS MEMORY	11
<i>Xu, Y. ; Lin, W. ; Hehn, M. ; Lu, Y. ; Rinnert, H. ; Petit, S. ; Moutaigne, F. ; Chaput, L. ; Negulescu, B. ; Andrieu, S. ; Mangin, S.</i>	
AB-07 - PMTJ DRIVEN STT MRAM WITH 300MM PROCESS	12
<i>Huai, Y. ; Zhang, J. ; Zhou, Y. ; Wang, X. ; Abedifard, E. ; Wang, Z. ; Hao, X. ; Jung, D. ; Satoh, K. ; Gan, H. ; Yen, B.K. ; Moon, K. ; Chandrashekar, U.</i>	
AB-08 - CONTROLLED PULSE SHAPE COOLING IN PLANAR TAS-STT-MRAM FOR IMPROVED WRITEABILITY	13
<i>Chavent, A. ; Ducruet, C. ; Portemont, C. ; Creuzet, C. ; Vila, L. ; Alvarez-Herault, J. ; Sousa, R.C. ; Prejbeanu, I.L. ; Dieny, B.</i>	
AB-09 - TRANSISTOR-LESS SPIN TORQUE TRANSFER MRAM DESIGN	14
<i>Wang, W.</i>	
AC-02 - FERROMAGNETISM IN CR2O3 THIN FILMS: AN AB-INITIO STUDY	15
<i>Choudhary, R. ; Skomski, R. ; Kashyap, A.</i>	
AC-03 - PERPENDICULAR MAGNETIC ANISOTROPY IN CO2FEAL THIN FILMS: EFFECT OF THE ANNEALING TEMPERATURE	16
<i>Belmeguenai, M. ; Gabor, M. ; Roussigne, Y. ; Petrisor, T. ; Zighem, F. ; Cherif, S. ; Coriolan, T.</i>	
AC-05 - CRYSTAL ORIENTATION, ORDER DEGREE, AND SURFACE ROUGHNESS OF FEPT-ALLOY FILM FORMED ON MGO(001) SUBSTRATE	17
<i>Ohtake, M. ; Itabashi, A. ; Futamoto, M. ; Kirino, F. ; Inaba, N.</i>	
AC-06 - FERROMAGNETIC RESONANCE STUDY OF THE PERPENDICULAR MAGNETIC ANISOTROPY IN MGO/COFEB/ TA MULTILAYERS AS A FUNCTION OF ANNEALING TEMPERATURE.....	18
<i>Aleksandrov, Y. ; Fowley, C. ; Kowalska, E. ; Sluka, V. ; Lindner, J. ; Farle, M. ; Ocker, B. ; Fassbender, J. ; Deac, A.</i>	
AC-07 - ENHANCEMENTS OF SATURATION MAGNETIZATION AND DAMPING IN TB/CR/FE TRILAYERS.....	19
<i>Sun, L. ; Zhang, D. ; Huang, Z. ; Zhai, Y. ; Du, J. ; Sui, Y. ; Zhai, H.</i>	
AC-09 - INFLUENCES OF Y3FE5O12 STRUCTURE PROPERTIES ON MAGNETIC PROXIMITY EFFECT IN PT/Y3FE5O12 HETEROSTRUCTURES.....	20
<i>Liang, X. ; Zhu, Y. ; Deng, L. ; Xie, J. ; Wu, M. ; Bi, L.</i>	
AC-10 - ELECTRIC FIELD CONTROL OF MAGNETIZATION AND ANISOTROPY IN ULTRATHIN FE UND FEPT/FE FILMS	21
<i>Duschek, K. ; Fahler, S. ; Schlörb, H. ; Leistner, K.</i>	
AC-11 - THERMALLY ACTIVATED DOMAIN WALL MOTION IN [CO/NI](111) SUPERLATTICES WITH PERPENDICULAR MAGNETIC ANISOTROPY	22
<i>Legall, S. ; Hauet, T. ; Vernier, N. ; Hehn, M. ; Lacour, D. ; Moutaigne, F. ; Gottwald, M. ; Andrieu, S. ; Ravelosona, D. ; Mangin, S.</i>	

AD-01 - HIGH MAGNETIC ANISOTROPY OF STRAINED EPITAXIAL FE-CO-X FILMS — BUFFER INDUCED DISTORTION VERSUS SPONTANEOUS STRAIN	23
<i>Reichel, L. ; Salikhov, R. ; Giannopoulos, G. ; Edstrom, A. ; Pohl, D. ; Rusz, J. ; Schultz, L. ; Fahler, S.</i>	
AD-02 - NEW ALNICO MAGNETS FABRICATED FROM PRE-ALLOYED GAS ATOMIZATION POWDER THROUGH DIVERSE CONSOLIDATION TECHNIQUES.....	24
<i>Tang, W. ; Zhou, L. ; Kassen, A. ; Palasyuk, A. ; White, E. ; Dennis, K.W. ; Kramer, M.J. ; Mccallum, R.W. ; Anderson, I.E.</i>	
AD-04 - INVESTIGATION INTO MAGNETIC ANISOTROPY OF LOW TEMPERATURE PHASE (LTP) MNBI THIN FILMS.....	25
<i>Suzuki, T. ; Hozumi, T. ; Barker, J. ; Okatov, S. ; Mryasov, O.N. ; Suwa, T.</i>	
AD-05 - STUDIES OF MN-BASED PERMANENT MAGNETIC MATERIALS MNX(X=AL, GA).....	26
<i>Yang, J. ; Wei, J. ; Zhao, H. ; Yang, Y. ; Liu, S. ; Zhou, D. ; Han, J. ; Du, H. ; Wang, C. ; Yang, Y.</i>	
AD-06 - TEMPERATURE DEPENDENCE OF MAGNETIC ANISOTROPY FOR SINGLE DOMAIN L10 FE/PD CRYSTAL AND ROLE OF THE ORDERING DEFECTS.....	27
<i>Korolev, A. ; Vlasova, N. ; Golovina, O. ; Okatov, S. ; Barker, J. ; Greenberg, B. ; Klementjeva, O. ; Volkov, A. ; Mryasov, O.N.</i>	
AD-07 - MAGNETIC ANISOTROPY OF TAU-MNAL THIN FILMS	28
<i>Zhao, S. ; Hozumi, T. ; Leclair, P. ; Mankey, G.J. ; Suzuki, T.</i>	
AD-10 - ANISOTROPY OF MECHANICAL PROPERTIES OF SM-CO PERMANENT MAGNETS DOPED WITH DYSPROSIUM.....	29
<i>Xue, Z. ; Liu, Z. ; Liu, L. ; Li, M. ; He, S. ; Lee, D. ; Guo, Y. ; Yan, A.</i>	
AD-11 - THE INFLUENCE OF SEVERE PLASTIC DEFORMATION ON MAGNETIC PROPERTIES OF NI48FE48ZR4, FE1.5CO0.5BTA0.3 AND CO80ZR16B4 ALLOYS.....	30
<i>Taskaev, S.V. ; Skokov, K.P. ; Khovaylo, V.V. ; Gunderov, D. ; Karpenkov, D.Y. ; Gutfleisch, O.</i>	
AE-01 - SWITCHING MAGNETIC ORDER AT AN FE/BATIO3 INTERFACE ON AND OFF: IMPACT ON HYBRID MAGNETIC-FERROELECTRIC TUNNEL JUNCTIONS.....	31
<i>Bertacco, R. ; Radaelli, G. ; Petti, D. ; Plekhanov, E. ; Fina, I. ; Asa, M. ; Baldrati, L. ; Rinaldi, C. ; Cantoni, M. ; Torelli, P. ; Gutierrez, D. ; Panaccione, G. ; Varela, M. ; Picozzi, S. ; Fontcuberta, J.</i>	
AE-02 - MAGNETIC-ION-INDUCED DISPLACIVE ELECTRIC POLARIZATION IN FEO5 BIPYRAMIDAL UNITS OF (BA, SR) FE12O19 HEXAFERRITES.....	32
<i>Chai, Y. ; Shen, S. ; Cong, J. ; Sun, P. ; Yan, L. ; Wang, S. ; Sun, Y.</i>	
AE-03 - MAGNETIC STRUCTURE AND THERMAL CONDUCTIVITY OF FEVO4 MULTIFERROIC.....	33
<i>Dixit, A. ; Ramchandran, B. ; Kuo, Y.K. ; Lawes, G.</i>	
AE-04 - MODULATION OF MAGNETIZATION DIRECTION IN FLEXIBLE MULTIFERROIC HETEROSTRUCTURES TOWARDS FLEXIBLE SPINTRONICS	34
<i>Liu, Y. ; Zhan, Q. ; Wang, B. ; Mao, S. ; Li, R.</i>	
AE-07 - ELECTRIC-FIELD CONTROL OF MAGNETISM IN MULTIFERROIC HETEROSTRUCTURES.....	35
<i>Zhao, Y. ; Zhang, S. ; Li, P. ; Chen, A. ; Li, D. ; Rizwan, S. ; Zhang, J. ; Seidel, J. ; Qu, T. ; Luo, Z. ; He, Q. ; Yang, L. ; Wu, Y. ; Jin, X. ; Gao, C. ; Han, X. ; Ramesh, R.</i>	
AE-08 - ELECTRIC FIELD CONTROL OF THE MAGNETIZATION DYNAMICS OF FERROMAGNETIC/FERROELECTRIC MULTIFERROIC HETEROSTRUCTURE.....	36
<i>Xie, L. ; Nan, T. ; Hu, Z. ; Wang, X. ; Gao, Y. ; Chen, X. ; Liu, M. ; Sun, N.</i>	
AE-09 - ELECTRIC FIELD MANIPULATED NONVOLATILE AND REVERSIBLE 90 -ROTATION OF THE MAGNETIC EASY-AXIS IN LSMO/PMN-PT (011) MULTIFERROIC HETEROSTRUCTURES	37
<i>Zhao, W. ; Yang, S. ; Huang, W. ; Feng, L. ; Zhang, D. ; Hu, Q. ; Yin, Y. ; Dong, S. ; Li, X.</i>	
AE-10 - MULTIFERROIC PROPERTIES OF NEODYMIUM AND COBALT CO-DOPED FOUR-LAYER AURIVILLIUS COMPOUNDS.....	38
<i>Zhang, D. ; Yang, S. ; Chen, Z. ; Feng, L. ; Huang, W. ; Zhao, W. ; Dong, S. ; Li, X.</i>	
AF-01 - MAGNETIC FIELD, CURRENT AND VOLTAGE-INDUCED FERROMAGNETIC RESONANCE IN MAGNETIC TUNNEL JUNCTIONS: MICROMAGNETIC SPATIAL ANALYSIS	39
<i>Checinski, J. ; Frankowski, M. ; Czapkiewicz, M. ; Stobiecki, T.</i>	
AF-02 - NOVEL MICROMAGNETICS FOR HIGH-TEMPERATURE APPLICATIONS AND MODELING OF ULTRA-FAST LASER-INDUCED MAGNETIZATION DYNAMICS	40
<i>Chubykalo-Fesenko, O. ; Nieves, P.</i>	
AF-05 - ADJUSTING SPECTRUM GAPS OF SPIN WAVES BY INTERFERENCE	41
<i>Wang, Q. ; Zhang, D. ; Zhang, H. ; Jin, L. ; Liao, Y. ; Xiaoli, T. ; Zhong, Z.</i>	
AF-06 - THE INFLUENCE OF SPIN-DIFFUSION EFFECTS ON CURRENT DRIVEN DOMAIN-WALL MOTION	42
<i>Abert, C. ; Bruckner, F. ; Vogler, C. ; Suess, D.</i>	
AF-07 - SKYRMION MOTION INDUCED BY SPIN-HALL CURRENT IN CONSTRAINED GEOMETRIES.....	43
<i>Zivieri, R. ; Tomasello, R. ; Carpentieri, M. ; Finocchio, G.</i>	
AF-08 - BLUME-EMERY-GRIFFITHS MODEL FOR THIN FILMS OF STACKED TRIANGULAR LATTICES	44
<i>Hog, S.El ; Diep, H.</i>	
AF-09 - EXAMINING THE CORRELATION BETWEEN MICROSTRUCTURE AND BARKHAUSEN NOISE ACTIVITY FOR FERROMAGNETIC MATERIALS	45
<i>Gaunkar, N.Prabhu ; Nlebedim, C.I. ; Jiles, D.</i>	
AF-10 - SEMI-IMPLICIT STEEPEST DESCENT METHOD FOR ENERGY MINIMIZATION AND ITS APPLICATION TO MICROMAGNETIC SIMULATION OF PERMANENT MAGNETS.....	46
<i>Furuya, A. ; Fujisaki, K. ; Shimizu, K. ; Uehara, Y. ; Ataka, T. ; Tanaka, T. ; Oshima, H.</i>	
AG-01 - STRAIN-MEDIATED VOLTAGE CONTROL OF A NI/NIO SPONTANEOUS EXCHANGE BIAS (SEB) SYSTEM	47
<i>Sun, W. ; Carman, G.</i>	

AG-03 - MULTI-FIELD MODULATION OF EXCHANGE BIASED FEGA/IRMN BILAYERS GROWN ON FLEXIBLE POLYVINYLIDENE FLUORIDE (PVDF) MEMBRANES	48
<i>Li, H. ; Zhan, Q. ; Rong, X. ; Liu, Y. ; Zhenghu, Z. ; Yang, H. ; Xiaoshan, Z. ; Wang, B. ; Mao, S. ; Li, R.</i>	
AG-05 - ROLE OF ANTIFERROMAGNETIC EXCHANGE COUPLING ON EXCHANGE-BIAS PROPAGATION	49
<i>Chi, X. ; Hu, Y.</i>	
AG-06 - ROOM TEMPERATURE INSTABILITY OF EXCHANGE ANISOTROPY IN FEMN/FECO SYSTEM	50
<i>Jimenez, E. ; Mikuszeit, N. ; Cavicchia, D.R. ; D'Orazio, F. ; Rossi, L.</i>	
AG-07 - MAGNETIC PROPERTIES OF MNRH THIN FILMS GROWN ON MGO SINGLE-CRYSTAL SUBSTRATES	51
<i>Chaturvedi, A. ; Suzuki, T. ; Mankey, G.J.</i>	
AG-09 - OBSERVATION OF AN ATOMIC EXCHANGE BIAS EFFECT IN DYCO4 FILM	52
<i>Chen, K. ; Dieter, L. ; Radu, F.</i>	
AG-10 - CAF2-BASED UO2/FE3O4 THIN FILMS: CRYSTAL STRUCTURE AND MAGNETIC EXCHANGE BIAS EFFECT	53
<i>Tereshina, E. ; Bao, Z. ; Havela, L. ; Mackova, A. ; Gouder, T. ; Caciuffo, R.</i>	
AG-11 - TEMPERATURE DEPENDENCE OF THE EXCHANGE BIAS PROPERTIES IN POLYCRYSTALLINE BIFEO3/NI80FE20.....	54
<i>Richy, J. ; Hauguel, T. ; Jay, J. ; Pogossian, S.P. ; Warot-Fonrose, B. ; Sheppard, C.J. ; Snyman, J.L. ; Strydom, A.M. ; Ben Youssef, J. ; Prinsloo, A.R. ; Spenato, D. ; Dekadjevi, D.T.</i>	
AH-01 - A NOVEL AXIAL FLUX SWITCHED RELUCTANCE MOTOR WITH GRAIN ORIENTED ELECTRICAL STEEL.....	55
<i>Ma, J. ; Qu, R. ; Li, J.</i>	
AH-03 - A NOVEL ANALYTICAL MODEL OF AIR-GAP PERMEANCE IN TUBULAR LINEAR SWITCHED RELUCTANCE ACTUATORS WITH HYBRID FLUX PATHS.....	56
<i>Xue, X. ; Cheng, K. ; Bao, Y. ; Zhang, Z.</i>	
AH-04 - PERMANENT MAGNET ASSISTED CURRENT SUPERIMPOSITION VARIABLE FLUX MACHINE	57
<i>Kohara, A. ; Hirata, K. ; Niguchi, N. ; Ohno, Y.</i>	
AH-05 - TRANSIENT FINITE ELEMENT ANALYSIS OF FLUX SWITCHING PERMANENT MAGNET MACHINE WITH MORE ACCURATE MODEL	58
<i>Zhu, S. ; Cheng, M. ; Hua, W. ; Tong, M. ; Cai, X.</i>	
AH-06 - POLE RATIO EFFECT ON PERFORMANCE OF STATOR DC EXCITED VERNIER RELUCTANCE MACHINES	59
<i>Jia, S. ; Qu, R. ; Li, J.</i>	
AH-07 - HIGH TORQUE DENSITY DESIGN OF A NEW OUTER-ROTOR HYBRID EXCITATION FLUX SWITCHING MACHINE FOR IN-WHEEL DRIVE ELECTRIC VEHICLE	60
<i>Ahmad, M. ; Sulaiman, E.</i>	
AH-08 - POWER FACTOR OF THREE-PHASE FLUX REVERSAL MACHINES	61
<i>Gao, Y. ; Qu, R. ; Li, J. ; Li, D. ; Wu, L.</i>	
AH-09 - ANALYSIS AND MODELING FOR THE LINEAR HYBRID SWITCHED RELUCTANCE MACHINE	62
<i>Li, Q. ; Cheng, E.K.</i>	
AH-10 - ELECTROMAGNETIC DESIGN OF A NEW HYBRID-EXCITED FLUX-SWITCHING MACHINE FOR FAULT-TOLERANT OPERATION.....	63
<i>Lin, F. ; Chau, K. ; Liu, C.</i>	
AH-11 - PERFORMANCE IMPROVEMENT OF FERRITE-ASSISTED SYNCHRONOUS RELUCTANCE MACHINES USING ASYMMETRICAL ROTOR CONFIGURATION	64
<i>Zhao, W. ; Lipo, T.A. ; Kwon, B.</i>	
AI-03 - FABRICATION AND MECHANICAL CHARACTERIZATION OF FLEXIBLE DEVICES WITH SENSORS WITH MAGNETORESISTANCE RESPONSES ABOVE 150%	65
<i>Gaspar, J. ; Fonseca, H. ; Paz, E. ; Costa, M. ; Martins, M. ; Ferreira, R. ; Cardoso, S. ; Freitas, P.</i>	
AI-04 - SHAPEABLE MAGNETIC SENSORICS	66
<i>Makarov, D. ; Melzer, M. ; Karnaushenko, D. ; Lin, G. ; Monch, I. ; Schmidt, O.G.</i>	
AI-05 - INFLUENCE OF MN CONCENTRATION ON MAGNETIC TOPOLOGICAL INSULATOR MNXB2-XTE3 THIN FILM HALL EFFECT SENSOR.....	67
<i>Ni, Y. ; Zhang, Z. ; Nlebedim, C.I. ; Hadimani, R.L. ; Jiles, D.</i>	
AI-06 - HIGH-SENSITIVE MAGNETORESISTIVE SENSORS WITH INTEGRATED MICRO-FABRICATED AND EXTERNAL MAGNETIC FLUX CONCENTRATORS	68
<i>Yin, X. ; Liou, S.</i>	
AI-07 - SYSTEMATIC INVESTIGATION ON CORRELATION BETWEEN SENSITIVITY AND NONLINEARITY IN MAGNETIC TUNNEL JUNCTION FOR MAGNETIC SENSOR.....	69
<i>Nakano, T. ; Oogane, M. ; Naganuma, H. ; Ando, Y.</i>	
AI-08 - NON-LINEAR CURRENT DETECTION BASED ON MAGNETIC MODULATION TECHNOLOGY	70
<i>Li, K. ; Niu, F. ; Wu, Y. ; Wang, Y. ; Dai, Y. ; Wang, L.</i>	
AI-09 - PLANAR HALL EFFECT BRIDGE SENSOR WITH NIFEX (X = CU, AG AND AU) SENSING LAYER	71
<i>Qejvanaj, F. ; Mazraati, H. ; Jiang, S. ; Persson, A. ; Sani, S. ; Chung, S. ; Magnusson, F. ; Akerman, J.</i>	
AP-01 - MAGNETIC AND MAGNETOCALORIC PROPERTIES IN FERRIMAGNETIC MN2-XCOXSB (X=0.15, 0.20) ALLOYS.....	72
<i>Ma, S. ; Su, Y. ; Huang, Y. ; Zhong, Z.</i>	

AP-02 - MARTENSITIC TRANSITION AND MAGNETOCALORIC EFFECT IN MN1-XCOGE MELT-SPUN RIBBONS	73
<i>Liu, Y. ; Zhang, M. ; Hu, F. ; Wang, J. ; Wu, R. ; Zhao, Y. ; Kuang, H. ; Zuo, W. ; Sun, J. ; Shen, B.</i>	
AP-03 - SUCCESSIVE MAGNETIC TRANSITIONS AND MAGNETOCALORIC EFFECT IN DY3AL2 COMPOUND	74
<i>Li, Y. ; Zhang, H. ; Yan, T. ; Long, K. ; Cheng, C. ; Xue, Y. ; Zhou, H.</i>	
AP-06 - SYNTHESIS OF ANTIFERROMAGNETIC GADOLINIUM DIHYDRIDE NANOPARTICLES AND ITS LARGE CRYOGENIC MAGNETO-CALORIC EFFECT	75
<i>Li, J. ; Ma, S. ; Wang, H. ; Gong, W. ; Jiang, J. ; Li, S. ; Wang, Y. ; Geng, D. ; Zhang, Z.</i>	
AP-07 - MAGNETISM AND LARGE MAGNETOCALORIC EFFECT IN GDNIBC COMPOUND	76
<i>Zhang, Y. ; Wilde, G.</i>	
AP-08 - MAGNETISM AND LARGE MAGNETOCALORIC EFFECT IN ER4PDMG COMPOUND	77
<i>Li, L. ; Niehaus, O. ; Kersting, M. ; Pottgen, R.</i>	
AP-09 - MAGNETOCALORIC EFFECT AND CRITICAL BEHAVIOR IN A DISORDERED FERROMAGNET LA0.7SR0.3MN0.9TI0.1O3	78
<i>Ho, T. ; Quach, D. ; Ho, T. ; Thanh, T. ; Phan, M. ; Phan, T. ; Yu, S.</i>	
AP-10 - TUNABLE CURIE TEMPERATURE AND MAGNETOCALORIC EFFECT IN MG-DOPED (LA, SR)MNO3 MANGANITES	79
<i>Wang, G. ; Zhao, Z. ; Wang, D. ; Zhang, X.</i>	
AP-12 - THE STRUCTURE AND MAGNETOCALORIC EFFECT OF MN38FE22AL40BX ALLOYS	80
<i>Guo, Q. ; Ou, Z. ; Bao, L. ; Hasichaolu, O. ; Tegus, O.</i>	
AP-13 - MAGNETOCALORIC EFFECT AND CRITICAL BEHAVIOR IN GD54HO6CO25 AL14SI AMORPHOUS RIBBONS	81
<i>Wang, F. ; Feng, T. ; Sun, R. ; Yu, S. ; Wang, J.</i>	
AQ-01 - EXCHANGE BIAS INDUCED BY SURFACE INHOMOGENEITIES IN EPITAXIAL PR0.7SR0.3MNO3/ LA0.5CA0.5MNO3 BILAYER FILM	82
<i>Wang, H. ; Liu, H. ; Cao, M. ; Tan, W. ; Su, K. ; Cao, Y. ; Li, L. ; Huo, D. ; Xu, F. ; Jia, Q. ; Gao, J.</i>	
AQ-02 - EXCHANGE SPRINGS IN L10-FEPT(110)/A1-FEPT BILAYER FILMS	83
<i>Li, Y. ; Zeng, D. ; Zhao, H. ; Du, B. ; Wei, J. ; Yoshimura, S. ; Saito, H. ; Li, G.</i>	
AQ-03 - THE LOOP-STAGE DEPENDENT EXCHANGE BIAS TRAINING EFFECT IN FENI/FEMN BILAYER	84
<i>Yang, M. ; Zhang, X. ; Zhao, J. ; You, B. ; Xu, Y. ; Du, J.</i>	
AQ-04 - BAND STRUCTURE CALCULATION OF THIN FILM YIG BASED MAGNONIC CRYSTAL	85
<i>Stuckler, T. ; Che, P. ; Tu, S. ; Xueying, Z. ; Yu, H.</i>	
AQ-06 - THE ANGULAR DEPENDENCE OF THE EXCHANGE BIAS UNDER THE PLAIN-DOMAIN-WALL MODEL	86
<i>Bai, Y. ; Xu, X.</i>	
AQ-07 - EXCHANGE BIAS EFFECT DETERMINED BY ANISOTROPIC MAGNETORESISTANCE IN COXNI1-XO/NI0.8FE0.2 BILAYER SYSTEM	87
<i>Yoo, W. ; Choo, S. ; Lee, K. ; Jo, S. ; You, C. ; Hong, J. ; Jung, M.</i>	
AQ-08 - TEMPERATURE STABILITY OF EXCHANGE BIAS FIELD AND MAGNETORESISTANCE OF PERMALLOY LAYER IN FE20NI80/TB-CO FILMS	88
<i>Kulesh, N. ; Balymov, K.G. ; Adanakova, O.A. ; Vas'Kovskiy, V.O.</i>	
AQ-09 - LARGE PERPENDICULAR EXCHANGE BIAS IN COFEB/MGO SYSTEMS PINNED BY A BOTTOM IRMN LAYER THROUGH AN INTERFACIAL COFE/TA COMPOSITE LAYER	89
<i>Zhang, X. ; Zhang, Y. ; Cai, J.</i>	
AQ-10 - CURRENT INDUCED MAGNETIZATION SWITCHING IN AN ANTIPEROVSKITE NITRIDE EXCHANGE-COUPLED BILAYER	90
<i>Kuroki, Y. ; Sakakibara, H. ; Ando, H. ; Kawai, S. ; Hajiri, T. ; Ueda, K. ; Asano, H.</i>	
AQ-11 - INFLUENCE OF PERPENDICULAR MAGNETIC FIELD ON ANGULAR DEPENDENT EXCHANGE BIAS OF [CO/PD]5/COFEB ELECTRODES	91
<i>Zhang, Q. ; Yu, T. ; Naganuma, H. ; Shi, D. ; Han, X.</i>	
AQ-12 - THE SHELL THICKNESS DEPENDENCE OF THE EXCHANGE BIAS OF FE/FE3O4 CORE-SHELL NANOPARTICLES	92
<i>Wu, R. ; Ding, S. ; Song, Z. ; Fu, J. ; Chen, G. ; Zhang, Y. ; Yang, Y. ; Yang, J.</i>	
AQ-13 - MICROMAGNETIC STRUCTURE OF CO STRIPE ARRAYS WITH TUNED ANISOTROPY	93
<i>Kozlov, A.G. ; Steblyi, M. ; Davydenko, A. ; Samardak, A.S. ; Ognev, A. ; Chebotkevich, L.</i>	
AQ-14 - CELL-SIZE EFFECT ON THE INTERLAYER COUPLING AND MAGNETORESISTANCE OSCILLATION IN PERPENDICULAR-ANISOTROPY MAGNETIC TUNNEL JUNCTION EMBEDDED WITH IRON NANOPARTICLES	94
<i>Lee, Y. ; Das, B. ; Wu, T. ; Horng, L. ; Wu, J.</i>	
AQ-16 - MAGNETIC HYSTERESIS IN ARRAY OF MAGNETIC NANOSTRUCTURES BY BLOCK COPOLYMERS	95
<i>Tiberto, P. ; Celegato, F. ; Barrera, G. ; Conta, G. ; Coisson, M. ; Manzin, A. ; Aprile, G. ; Boarino, L. ; Seguin, G. ; Lupi, F.Ferrarese ; Giammaria, T. ; Perego, M.</i>	
AR-02 - EFFECTS OF DIFFERENT ORIENTATIONS OF TA UNDERLAYER ON MAGNETIC PROPERTIES AND MICROSTRUCTURES OF PR-FE-B THIN FILMS	96
<i>Yei, Y. ; Chen, Y. ; Sun, A.</i>	

AR-03 - STUDY ON ULTRAFINE-GRAINED SINTERED ND-FE-B MAGNETS PRODUCED FROM JET-MILLED HDDR POWDERS	97
<i>Ding, G. ; Guo, S. ; Cai, L. ; Chen, L. ; Liu, J. ; Lee, D. ; Yan, A.</i>	
AR-04 - SUBSTITUTION OF ND IN FLAKE BY RARE EARTH DOPANT AND ITS EFFECT ON COERCIVITY OF HOT-PRESSED ND-FE-B MAGNET DOPED WITH RE₃	98
<i>Kim, J. ; Kwon, H. ; Lee, J. ; Yu, J.</i>	
AR-05 - REGENERATION OF WASTE NDFEB SINTERED MAGNETS VIA NDHX NANOPARTICLES DOPING	99
<i>Li, X. ; Yue, M. ; Liu, W. ; Zhang, D.</i>	
AR-08 - COERCIVITY ENHANCEMENT OF DY-FREE SINTERED ND-FE-B MAGNETS BY GRAIN REFINEMENT AND INDUCTION HEAT TREATMENT	100
<i>Chen, L. ; Cao, X. ; Guo, S. ; Ding, G. ; Di, J. ; Yan, C. ; Yan, A.</i>	
AR-09 - MAGNETIC PROPERTIES AND MICROSTRUCTURE OF HIGH (BH)_{MAX} ND-FE-B SINTERED MAGNET WITH GRAIN BOUNDARY DIFFUSION TREATMENT	101
<i>Shi, D. ; Zhang, W. ; Nagata, H.</i>	
AR-11 - SIMULATION OF MELT SPINNING PROCESS OF NDFEB NANOCRYSTALLINE RIBBONS BASED ON ANSYS	102
<i>Wang, X. ; Zhu, M. ; Li, W. ; Xin, H. ; Du, X. ; Du, A.</i>	
AR-12 - THE EFFECTS OF SI SUBSTITUTION ON STRUCTURE AND MAGNETIC PROPERTIES IN MISCHMETAL-FE-B RIBBONS	103
<i>Zhang, M. ; Shen, B. ; Hu, F. ; Sun, J.</i>	
AS-01 - MAGNETIC AND MICROSTRUCTURAL PROPERTIES OF DYF₃-COATED SINTERED ND-FE-B MAGNETS BY ELECTROPHORETIC DEPOSITION	104
<i>Cao, X. ; Chen, L. ; Guo, S. ; Chen, R. ; Yan, A. ; Yan, G.</i>	
AS-02 - EFFECT OF DEFORMATION TEMPERATURE ON CRYSTAL TEXTURE FORMATION IN HOT DEFORMED NANOCRYSTALLINE SMC05 PERMANENT MAGNETS	105
<i>Ma, Q. ; Yue, M. ; Zhang, H. ; Yuan, X. ; Zhang, D. ; Zhang, J. ; Gao, X.</i>	
AS-03 - THE MECHANISM OF ENHANCED COERCIVITY FOR (CENDPR)-FE-B SINTERED MAGNET PREPARED BY STRUCTURE DESIGN	106
<i>Zhu, M. ; Han, R. ; Li, W. ; Huang, S. ; Zheng, D. ; Song, L.</i>	
AS-04 - IMPROVEMENT OF THE THERMAL STABILITY OF SINTERED ND-FE-B MAGNETS BY INTERGRANULAR ADDITION OF PR₃₄CO₆₅.6	107
<i>Jin, C. ; Chen, R. ; Yin, W. ; Tang, X. ; Wang, Z. ; Yan, A. ; Lee, D.</i>	
AS-08 - ND-FE-B FILM MAGNETS WITH THE THICKNESS ABOVE 100 μm DEPOSITED ON SI SUBSTRATES	108
<i>Chikuba, Y. ; Oryoshi, M. ; Yamashita, A. ; Nakano, M. ; Yanai, T. ; Fukunaga, H.</i>	
AS-09 - ENHANCEMENT OF COERCIVITY OF ND-FE-B ULTRAFINE POWDERS COMPARABLE TO SINGLE DOMAIN SIZE BY GRAIN BOUNDARY DIFFUSION PROCESS	109
<i>Sugimoto, S. ; Nakamura, M. ; Matsuura, M. ; Une, Y. ; Kubo, H. ; Sagawa, M.</i>	
AS-11 - ELECTROCHEMICAL CORROSION BEHAVIOR OF DUAL-MAIN-PHASE CENDFEB MAGNET	110
<i>Wu, Y.</i>	
AS-12 - MICROSTRUCTURE AND MAGNETIC PROPERTIES OF HIGH COERCIVITY DIE-UPSET ND-FE-B MAGNETS PREPARED BY ND-CU ALLOY ADDITION	111
<i>Du, X. ; Guo, Z. ; Zhu, M. ; Han, R. ; Jing, Z. ; Li, W.</i>	
AS-13 - MAGNETIC PROPERTIES AND PHASE STRUCTURE IN CEFEB STRIP-CAST PERMANENT MAGNETS	112
<i>Zhou, Y.Q. ; Yan, A.</i>	
AS-14 - INVESTIGATION OF THE INFLUENCE OF CARBON ON THE MAGNETIC PROPERTIES OF POWDER INJECTION MOLDED ND-FE-B MAGNET	113
<i>Lopes, L.U. ; Santos, E.Costa ; Hartwig, T. ; Wendhausen, P.A.</i>	
AS-15 - EFFECT OF RE ION VALENCY VARIATION IN TB AND DY DOPED MAGNETIC SRFE₁₀-XREXO₁₉ HEXAFERRITE	114
<i>Rai, B.K. ; Wang, L. ; Mishra, S.R.</i>	
AT-01 - DETERMINING OPERATING CURRENT OF HTS NO-INSULATION FIELD MAGNET IN WIND GENERATORS	115
<i>Kim, H. ; Hur, J. ; Kim, S. ; Joo, J. ; Ko, R. ; Ha, D. ; Jo, Y.</i>	
AT-02 - DESIGN PROCESS OF A 10-MW CLASS HIGH TEMPERATURE SUPERCONDUCTING HOMO-POLAR GENERATOR FOR WIND TURBINE	116
<i>Jeong, J. ; Kim, H. ; An, D. ; Hong, J. ; Jo, Y.</i>	
AT-03 - WINDING CONFIGURATION DESIGN OF FLUX-SWITCHING PM MOTORS BASED ON MAGNETIC GEARING PRINCIPLE	117
<i>Xiao, F. ; Du, Y. ; Hua, W. ; Cheng, M. ; Sun, Y. ; Zhu, H. ; Ching, T.</i>	
AT-04 - PERFORMANCE ANALYSIS OF A MAGNETIC-GEARED LINEAR PERMANENT MAGNET GENERATOR FOR WAVE ENERGY CONVERSION	118
<i>Feng, N. ; Yu, H. ; Huang, L. ; Zhong, W. ; Shi, Z.</i>	
AT-06 - A NOVEL DESIGN AND RESEARCH FOR AN ELECTROMAGNETIC VALVE ACTUATOR WITH PERMANENT MAGNETS	119
<i>Liang, H. ; Zhang, K. ; Yu, H. ; Zhai, G.</i>	

AT-09 - A NOVEL MAGNETIC-GEARED TUBULAR LINEAR MACHINE WITH HALBACH PERMANENT-MAGNET ARRAYS FOR TIDAL ENERGY CONVERSION	120
<i>Ho, S.L. ; Wang, Q. ; Niu, S. ; Fu, W.</i>	
AT-10 - COGGING TORQUE OPTIMIZATION OF A NOVEL TRANSVERSE FLUX PERMANENT MAGNET GENERATOR WITH DOUBLE C-HOOP STATOR FOR WIND POWER APPLICATION	121
<i>Jia, Z. ; Lin, H.</i>	
AT-11 - PARAMETER DESIGN AND BEHAVIOR ANALYSIS OF THE NON-UNIFORM DAMPING AND SCREENING SYSTEM IN THE HTS GENERATOR.....	122
<i>Zhang, W. ; Xia, D. ; Zhang, D.</i>	
AT-12 - DESIGN AND OPTIMIZATION OF A TRANSVERSE FLUX MACHINE USING AN ANALYTICAL 3-D MAGNETIC CHARGE MODEL	123
<i>Kremers, M. ; Paulides, J.J. ; Lomonova, E.</i>	
AT-13 - MAGNETIC CIRCUIT ANALYSIS FOR A MAGNETLESS DOUBLE-ROTOR FLUX SWITCHING MOTOR.....	124
<i>Yu, C. ; Niu, S. ; Ho, S.L. ; Fu, W.</i>	
AT-14 - DESIGN OF CYLINDRICAL LINEAR MAGNETIC GEAR GENERATOR FOR STERLING SOLAR POWER GENERATE SYSTEM	125
<i>Yang, Q. ; Bao, G. ; Zhang, B.</i>	
AT-15 - DESIGN AND ANALYSIS OF SURFACE-MOUNTED-TYPE VARIABLE FLUX PERMANENT MAGNET MOTOR FOR WIDE-SPEED RANGE APPLICATIONS	126
<i>Kim, J. ; Choi, J. ; Lee, K. ; Lee, S.</i>	
AU-01 - ANALYTICAL INVESTIGATION ON THE POWER FACTOR OF A FLUX-MODULATED PERMANENT-MAGNET SYNCHRONOUS MACHINE	127
<i>Zhang, X. ; Liu, X. ; Chen, Z.</i>	
AU-02 - DESIGN AND ANALYSIS OF COAXIAL MAGNETIC GEAR CONSIDERING ROTOR LOSSES	128
<i>Liu, G. ; Tian, Y. ; Zhao, W.</i>	
AU-03 - DESIGN AND ANALYSIS OF A NEW HALBACH MAGNETIZED MAGNETIC SCREW FOR ARTIFICIAL HEARTS.....	129
<i>Ji, J. ; Ling, Z.</i>	
AU-06 - A NOVEL LINEAR RESONANT ACTUATOR WITH 3-D STRUCTURAL MAGNETIC CIRCUIT	130
<i>Kato, M. ; Hirata, K. ; Asai, Y. ; Kato, Masayuki ; Hirata, Katsuhiro ; Asai, Yasuyoshi</i>	
AU-08 - OPTIMIZATION OF ASYMMETRIC ACCELERATION WAVEFORM FOR HAPTIC DEVICE DRIVEN BY 2-DOF OSCILLATORY ACTUATOR	131
<i>Kato, M. ; Nitta, J. ; Hirata, K. ; Yoshimoto, T. ; Kato, Masayuki ; Nitta, Junya ; Hirata, Katsuhiro ; Yoshimoto, Takamichi</i>	
AU-09 - INVESTIGATION OF AUXILIARY POLES OPTIMAL DESIGN ON REDUCTION OF END EFFECT DETENT FORCE FOR PMLSM WITH TYPICAL SLOT-POLE COMBINATIONS.....	132
<i>Zhang, H. ; Kou, B. ; Jin, Y. ; Zhang, H.</i>	
AU-10 - ANALYSIS OF NEW MODULAR LINEAR FLUX REVERSAL PERMANENT MAGNET MOTORS	133
<i>Xu, L. ; Liu, G. ; Zhao, W.</i>	
AU-12 - A NOVEL HIGH-PERFORMANCE MAGNETIC TRANSMISSION FOR CONVERTING BETWEEN ROTARY AND RECTILINEAR MOTION	134
<i>Fu, X. ; Wang, B. ; Liu, K. ; Lin, M. ; Hao, L.</i>	
AU-13 - DESIGN AND ANALYSIS OF AN ADVANCED MAGNETIC VARIABLE GEAR FOR HYBRID ELECTRIC VEHICLES	135
<i>Chen, M. ; Chau, K. ; Liu, C.</i>	
AU-14 - 3D PRINTING BASED DESIGN OF AXIAL FLUX MAGNETIC GEAR FOR HIGH TORQUE DENSITY	136
<i>Tsai, M. ; Ku, L.</i>	
AV-01 - MAGNETICALLY GEARED INDUCTION MACHINES.....	137
<i>Mezani, S. ; Hamiti, T. ; Belguerras, L. ; Lubin, T. ; Gerada, C.</i>	
AV-04 - DESIGN METHOD OF A NOVEL HYBRID-FLUX MAGNETIC GEAR USING 3-D FINITE ELEMENT METHOD.....	138
<i>Chen, Y. ; Fu, W. ; Peng, S.</i>	
AV-05 - STUDY ON DESIGN AND EXPERIMENT FOR MAGNETICALLY COMPOUNDING PROPULSION MOTOR.....	139
<i>Jia, H. ; Wang, G. ; Wen, L. ; Chen, J.</i>	
AV-07 - ELECTROMAGNETIC PERFORMANCE OF NON-OVERLAPPING STATOR WOUND FIELD SYNCHRONOUS MACHINE WITH SALIENT POLE ROTOR	140
<i>Zhu, Z. ; Zhou, Y. ; Chen, J.</i>	
AV-08 - DESIGN AND ANALYSIS OF A NEW SIX-PHASE FAULT-TOLERANT HYBRID-EXCITATION MOTOR FOR ELECTRIC VEHICLE	141
<i>Zhang, L. ; Fan, Y. ; Li, C.</i>	
AV-09 - ANALYSIS AND EXPERIMENTAL EVALUATION OF HARMONIC LEAKAGE INDUCTANCE FOR POLYPHASE PM MACHINES HAVING CLOSE SLOT AND POLE COMBINATIONS.....	142
<i>Wu, F. ; Zheng, P.</i>	
AV-10 - A 2-D DIFFERENTIALLY COUPLED MAGNETIC ACTUATOR.....	143
<i>Sakaïdani, Y. ; Hirata, K. ; Niguchi, N.</i>	
AV-11 - FAULT TOLERANT CONTROL FOR A FIVE-PHASE FLUX-SWITCHING PERMANENT MAGNET MACHINE	144
<i>Tong, M. ; Hua, W. ; Cheng, M. ; Su, P. ; Li, F.</i>	

AV-12 - A NEW MAGNETIC STEERING AXIAL-FIELD MACHINE FOR ELECTRONIC DIFFERENTIAL SYSTEM IN ELECTRIC VEHICLE.....	145
<i>Lee, C. ; Chau, K. ; Liu, C.</i>	
AV-13 - RELIABILITY ANALYSIS OF A NINE-PHASE FLUX-SWITCHING PM MACHINE	146
<i>Li, W. ; Hua, W. ; Cheng, M. ; Yu, F. ; Ding, S.</i>	
AV-14 - HARMONIC INJECTED ROTOR SHAPE FOR FIVE-PHASE SURFACE-MOUNTED PERMANENT MAGNET MACHINE	147
<i>Wang, K. ; Zhu, Z. ; Zhou, P.</i>	
AV-15 - DUAL STATOR TWO-PHASE PERMANENT MAGNET MACHINES WITH PHASE-GROUP CONCENTRATED-COIL WINDINGS FOR TORQUE ENHANCEMENT	148
<i>Zhao, W. ; Lipo, T.A. ; Kwon, B.</i>	
AV-16 - A STUDY ON DESIGN OF MAGNETIZATION YOKE OF FERRITE SPOKE-TYPE PERMANENT MAGNET SYNCHRONOUS MOTOR CONSIDERING DEMAGNETIZATION	149
<i>Jeong, T. ; Kang, D. ; Hong, H. ; Park, M.</i>	
BA-03 - PIEZOELECTRIC AND PHOTON HELICITY DEPENDENT DOMAIN WALL MOTION DRIVEN BY ELECTRICAL CURRENT AND OPTICAL SPIN TRANSFER TORQUES.....	150
<i>Wunderlich, J. ; Janda, T. ; Roy, P. ; Ramsay, A. ; Otxoa, R. ; Irvine, A. ; Jungwirth, T. ; Nemec, P. ; Gallagher, B. ; Campion, R.</i>	
BA-05 - DOMAIN WALL DYNAMICS UNDER ELECTRIC FIELD IN TA/CO₄₀FE₄₀B₂₀/MGO DEVICES WITH PERPENDICULAR ANISOTROPY	151
<i>Ravelosona, D. ; Lin, W. ; Vernier, N. ; Agnus, G. ; Garcia, K. ; Ocker, B. ; Zhao, W. ; Fullerton, E.E.</i>	
BA-06 - VOLTAGE CONTROL OF SINGLE MAGNETIC DOMAIN NANOSCALE STRUCTURES — ANALYSIS AND EXPERIMENTS.....	152
<i>Carman, G. ; Keller, S. ; Liang, C.</i>	
BB-01 - COUPLING HEAT WITH MAGNETIZATION	153
<i>Yu, H. ; Ansermet, J. ; Granville, S. ; Yu, D.</i>	
BB-02 - SPIN-HALL ASSISTED STT-RAM DESIGN AND DISCUSSION	154
<i>Eken, E. ; Zhang, Y. ; Yan, B. ; Wu, W. ; Li, H. ; Chen, Y.</i>	
BB-03 - SPIN INJECTION INTO SUPERCONDUCTORS AND QUASI-PARTICLE MEDIATED SPIN HALL EFFECTS	155
<i>Otani, Y.</i>	
BB-04 - SPIN ORBIT TORQUE SWITCHING IN TA/COFEB/MGO WITHOUT LONGITUDINAL FIELDS	156
<i>Conte, R.Lo ; Hrabec, A. ; Mihai, A. ; Schulz, T. ; Noh, S. ; Marrows, C. ; Moore, T. ; Klauui, M.</i>	
BB-05 - COHERENT SUB-NOSECOND SWITCHING OF PERPENDICULAR MAGNETIZATION BY THE FIELD-LIKE SPIN-ORBIT TORQUE WITHOUT EXTERNAL MAGNETIC FIELD.....	157
<i>Legrand, W. ; Ramaswamy, R. ; Mishra, R. ; Yang, H.</i>	
BB-06 - PROPOSAL AND DEMONSTRATION OF A NEW SPIN-ORBIT TORQUE INDUCED SWITCHING DEVICE.....	158
<i>Fukami, S. ; Anekawa, T. ; Zhang, C. ; Ohno, H.</i>	
BB-07 - SPIN-HALL NANO-OSCILLATOR: A STUDY BASED ON THE SYNCHRONIZATION	159
<i>Giordano, A. ; Laudani, A. ; Gubbiotti, G. ; Azzerboni, B. ; Carpentieri, M. ; Finocchio, G.</i>	
BB-08 - SPIN ORBIT TORQUE EFFECT IN PT/FEMN BILAYERS	160
<i>Yang, Y. ; Zhang, X. ; Xu, Y. ; Zhang, S. ; Li, R. ; Yao, K. ; Wu, Y.</i>	
BB-09 - MECHANISM OF A PURE SPIN TRANSFER THROUGH AN ANTIFERROMAGNETIC INSULATOR.....	161
<i>Khymyn, R. ; Ivanov, B. ; Lisenkov, I. ; Tyberkevych, V. ; Slavin, A.</i>	
BB-10 - SYMMETRY OF SPIN ORBIT TORQUE INDUCED BY IMPURITIES.....	162
<i>Nikolaev, S. ; Kalitsov, A. ; Mryasov, O.N.</i>	
BB-11 - CHARACTERIZATION OF SPIN-ORBIT TORQUES IN PT/CO/TA STRUCTURES	163
<i>Woo, S. ; Mann, M. ; Tan, A. ; Carreta, L. ; Beach, G.</i>	
BC-02 - EXTENDED AUTO-OSCILLATOR EQUATION AND NON-LINEAR PARAMETERS OF A SYNTHETIC FERRIMAGNET SPIN TORQUE OSCILLATOR.....	164
<i>Lacoste, B. ; Romera, M. ; Ebels, U. ; Buda-Prejbeanu, L.</i>	
BC-06 - INDIVIDUAL SITE REVERSAL IN CENTRO-SYMMETRIC MATRICES BY COMMON CURRENT EXCITATION	165
<i>Elyasi, M. ; Bhatia, C.S. ; Yang, H.</i>	
BC-07 - TUNABLE HIGH-FREQUENCY PROPERTIES OF CO-NI FERROMAGNETIC NANOWIRES THROUGH COMPOSITION MODULATION.....	166
<i>Lei, Y. ; Li, L.</i>	
BC-08 - A NEW SHORT-CIRCUITED COPLANAR WAVEGUIDE TO MEASURING THE PERMEABILITY OF MAGNETIC THIN FILM: COMPARISON WITH SHORT-CIRCUITED MICROSTRIP LINE.....	167
<i>Wei, J. ; Feng, H. ; Zhu, Z. ; Liu, Q. ; Wang, J.</i>	
BC-09 - MAGNETIC CHARACTERIZATION OF ON-CHIP INTEGRATED LAYER OF SUBSTITUTED SR-M HEXAFERRITE BEYOND 10 GHZ	168
<i>Sai, R. ; Endo, Y. ; Shimada, Y. ; Naik, R. ; Bhat, N. ; Shivashankar, S.A. ; Yamaguchi, M.</i>	
BC-10 - NANO-PATTERNED PERMALLOY THIN FILM ENABLED ELECTRICALLY TUNABLE SPIRAL INDUCTOR	169
<i>Wang, T. ; Peng, Y. ; Jiang, W. ; Xia, T. ; Wang, G.</i>	
BC-11 - DEVELOPMENT OF HIGH SENSITIVITY MULTI CORE MI ELEMENT.....	170
<i>Hamada, N. ; Shimode, A. ; Cai, C. ; Yamamoto, M.</i>	

BC-12 - DEVELOPMENT OF HIGHLY-SENSITIVE MI SENSOR USED FOR FOREIGN PARTICLES INSPECTION	171
<i>Cai, C. ; Hamada, N. ; Shimode, A. ; Mori, M. ; Yamamoto, M.</i>	
BD-01 - ENERGY BARRIER ANALYSIS ON HOT-DEFORMED ND-FE-B MAGNETS	172
<i>Goto, R. ; Okamoto, S. ; Akiya, T. ; Kikuchi, N. ; Kitakami, O. ; Sepehri-Amin, H. ; Ohkubo, T. ; Hono, K. ; Hioki, K. ; Hattori, A.</i>	
BD-02 - PREPARATION OF HIGHLY TEXTURED HYDROGENATION-DISPROPORTIONATION-DESORPTION-RECOMBINATION POWDERS FOR ND-FE-B SINTERED MAGNETS	173
<i>Zhang, Y. ; Liu, T. ; Han, J. ; Zhou, L. ; Liu, S. ; Zhang, X. ; Yang, J. ; Yang, Y.</i>	
BD-03 - EFFECTS OF STRAIN RATIO AND STAIN RATE ON MICROSTRUCTURE AND MAGNETIC PROPERTIES OF ND-FE-B NANOCRYSTALLINE MAGNETS DURING HOT-DEFORMATION PROCESS	174
<i>Cha, H. ; Liu, S. ; Yu, J. ; Kwon, H. ; Kim, Y. ; Lee, J.</i>	
BD-04 - ISOTROPIC AND ANISOTROPIC NANOCRYSTALLINE NDFEB BULK MAGNETS PREPARED BY BINDER-FREE HIGH-VELOCITY COMPACTION AND HOT DEFORMATION	175
<i>Deng, X. ; Yu, H. ; Liu, Z. ; Zhang, G.</i>	
BD-05 - THE STUDY ON GRAIN-BOUNDARY MICROSTRUCTURE OF SINTERED (CE, ND)-FE-B MAGNETS	176
<i>Li, A. ; Li, W. ; Huang, S. ; Wang, J. ; Feng, H. ; Zhu, M.</i>	
BD-06 - EFFECT OF TEMPERATURE AND PRESSURE CONDITIONS ON PHASE EVOLUTION AND MAGNETIC ANISOTROPY IN D-HDDR PROCESS FOR ND-FE-B POWDERS	177
<i>Horikawa, T. ; Matsuura, M. ; Sugimoto, S. ; Yamazaki, M. ; Mishima, C.</i>	
BD-07 - EFFECT OF DRY ADDITION ON THE MAGNETIC AND MECHANICAL PROPERTIES OF SINTERED ND-FE-B MAGNETS PREPARED BY DOUBLE-ALLOY POWDER MIXED METHOD	178
<i>Hu, Z.</i>	
BD-08 - ENHANCED CORROSION RESISTANCE OF SINTERED NDFEB MAGNETS BY DIFFUSION OF CO FILM PREPARED BY DIRECT CURRENT MAGNETRON SPUTTERING DEPOSITION	179
<i>Di, J. ; Guo, S. ; Cai, L. ; Chen, L. ; Ding, G. ; Liu, J. ; Yan, A.</i>	
BD-09 - APPLICATION OF THE HDDR METHOD FOR RECYCLING OF ND-FE-B MAGNETS	180
<i>Szymanski, M. ; Michalski, B. ; Leonowicz, M. ; Miazga, Z.</i>	
BD-10 - SUBSTITUTION OF CE FOR NDPR IN MELT-SPUN (NDPR)-FE-B POWDERS	181
<i>Chen, Z. ; Lim, Y. ; Brown, D.</i>	
BE-02 - SKYRMIONS AT ROOM TEMPERATURE IN MAGNETIC MULTILAYERS	182
<i>Moreau-Luchaire, C. ; Reyren, N. ; Moutafis, C. ; Sampaio, J. ; Van Horne, N. ; Vaz, C.A. ; Warnicke, P. ; Garcia, K. ; Weigand, M. ; Bouzehouane, K. ; Deranlot, C. ; George, J. ; Raabe, J. ; Cros, V. ; Fert, A.</i>	
BE-04 - MAGNETIC SOFT X-RAY TOMOGRAPHY OF MAGNETIC SWISS ROLL ARCHITECTURES	183
<i>Streubel, R. ; Kronast, F. ; Fischer, P. ; Schmidt, O.G. ; Makarov, D.</i>	
BE-05 - X-RAY MICROSCOPY AND SPECTROSCOPY INSIGHTS OF ORGANIC SPIN-VALVE	184
<i>Wei, D. ; Cheng, P.</i>	
BE-06 - VISUALIZING DOMAIN WALL MAGNETISM AND DOMAIN MAGNETOELECTRICITY IN MULTIFERROIC HEXAGONAL MANGANITES	185
<i>Wu, W. ; Geng, Y. ; Fennie, C. ; Mostovoy, M. ; Cheong, S.</i>	
BE-07 - CAPACITIVE DISTANCE CONTROL FOR MEASURING PARTICULATE MAGNETIC MEDIA WITH MAGNETIC FORCE MICROSCOPY	186
<i>Schwenk, J. ; Hug, H.J. ; Marioni, M.A. ; Hauet, T. ; Hehn, M. ; Araujo, F. ; Abreu, V. ; Antohe, V.A. ; Srivastava, S.K. ; Piraux, L.</i>	
BF-02 - IMPROVED MAGNETIC PROPERTIES AND TEXTURE OF FEPT-C THIN FILMS DOPED WITH TI OR ZR	187
<i>Cher, K. ; Zhou, T. ; Hu, J.</i>	
BF-03 - EFFECT OF TIN-MGO INTERMEDIATE LAYER ON THE MICROSTRUCTURE AND MAGNETIC PROPERTIES OF FEPT THIN FILMS	188
<i>Dong, K. ; Li, H. ; Deng, J. ; Peng, Y. ; Ju, G. ; Chow, G. ; Moog, J. ; Chen, J.</i>	
BF-05 - AN EXPERIMENTAL INVESTIGATION ON CURIE TEMPERATURE (TC) VARIATIONS AND RELATED SWITCHING FIELD DISTRIBUTIONS (SFD) IN HEAT ASSISTED MAGNETIC RECORDING (HAMR) MEDIA	189
<i>Chen, Y. ; Leong, S. ; Yang, H. ; Hu, J.</i>	
BF-06 - PROMOTED COLUMNAR GRAIN STRUCTURE IN BILAYER FEPT:C/FEPT:B FILMS	190
<i>Huang, S. ; Wen, W. ; Chang, K. ; Lai, C.</i>	
BF-07 - TIN INTERMEDIATE LAYER DEVELOPMENT FOR FEPT BASED HAMR MEDIA	191
<i>Cher, K. ; Hu, J. ; Lim, N.</i>	
BF-08 - TUNABLE HIGH COERCIVITY FEPT BILAYER STRUCTURE FOR HAMR APPLICATION	192
<i>Dutta, T. ; Kundu, S. ; Saifullah, M. ; Yang, H. ; Bhatia, C.S.</i>	
BF-09 - THE EFFECT OF EXCHANGE COUPLING ON SWITCHING FIELDS IN MAGNETIC RECORDING	193
<i>Wood, R.</i>	
BF-10 - ADJACENT AND FAR TRACK ERASURE DEPENDENCE ON MEDIA SUL PERMEABILITY IN SHIELDED PMR HEAD RECORDING	194
<i>Choe, G. ; Goncharov, A. ; Chu, F. ; Vanderheijden, P.</i>	
BF-11 - FABRICATION OF TEMPLATES FOR ACHIEVING ONE-TO-ONE GRAIN MATCHING IN HAMR MEDIA	195
<i>Sundar, V. ; Zhou, B. ; Liu, Y. ; Zhu, J. ; Laughlin, D. ; Zhu, J.</i>	
BF-12 - VARIATION OF STRUCTURE AND MAGNETIC PROPERTIES BY AG ADDITION IN (001) ORIENTED COPT AND COPD ALLOY FILM	196
<i>Nagata, T. ; Tokuoka, Y. ; Kato, T. ; Oshima, D. ; Iwata, S.</i>	

BG-01 - EXACT ANALYTICAL METHOD FOR AIR-GAP MAIN MAGNETIC FIELD COMPUTATION AND COGGING TORQUE OF SURFACE-MOUNTED PERMANENT-MAGNET MOTORS	197
<i>Jing, L. ; Liu, L.</i>	
BG-02 - FERROMAGNETIC CORE WITH HIGH PERMEABILITY COMPOSED WITH STRENGTH WINDING IN SHORT CIRCUIT CURRENT	198
<i>Hsu, C. ; Fu, C. ; Liu, J. ; Jen, S. ; Cheng, S.</i>	
BG-03 - A GENERAL FRAMEWORK BASED ON A NEW HYBRID ANALYTICAL MODEL FOR THE ANALYSIS AND DESIGN OF PERMANENT MAGNET MACHINES.....	199
<i>Ouagued, S. ; Diriyé, A.Aden ; Amara, Y. ; Barakat, G.</i>	
BG-04 - INFLUENCES OF TURBO-GENERATOR END WINDING DIMENSIONS ON ELECTROMAGNETIC LOSS IN THE END CORE AND METAL PARTS.....	200
<i>Wang, L. ; Li, J. ; Li, W.</i>	
BG-05 - ROTOR MECHANICAL STRESS AND DEFORMATION ANALYSIS OF CORELESS STATOR AXIAL-FLUX PERMANENTMAGNET MACHINES.....	201
<i>Cao, Y. ; Yu, L. ; Jia, H.</i>	
BG-06 - EFFECTS OF EDDY CURRENT IN ELECTRICAL CONNECTION SURFACE OF LAMINATED CORE ON HIGH-SPEED PM MOTOR SUPPORTED BY ACTIVE MAGNETIC BEARINGS.....	202
<i>Fang, J. ; Xu, S.</i>	
BG-07 - ARMATURE REACTION FIELD AND INDUCTANCE FEATURE OF HYBRID EXCITATION SYNCHRONOUS MACHINE WITH MAGNETIC SHUNTING ROTOR	203
<i>Zhang, Z. ; Mu, Y. ; Liu, Y.</i>	
BG-08 - NOVEL ASYMMETRICAL ROTOR DESIGN FOR EASY ASSEMBLY AND REPAIR OF ROTOR WINDINGS IN SYNCHRONOUS GENERATORS.....	204
<i>Yang, N. ; Cao, W. ; Liu, Z. ; Tan, Z. ; Zhang, Y. ; Yu, S. ; Morrow, J.</i>	
BG-09 - INFLUENCE OF SLOT RADIAL MAGNETIC FIELD ON CIRCULATING CURRENT IN STATOR TRANSPOSITION STRANDS OF LARGE TURBOGENERATOR.....	205
<i>Liang, Y. ; Bian, X. ; Wu, L.</i>	
BG-10 - EFFECT OF HARDNESS AND THICKNESS OF NON-ORIENTED ELECTRICAL STEEL SHEETS ON IRON LOSS DETERIORATION BY SHEARING PROCESS	206
<i>Omura, T. ; Zaizen, Y. ; Fukumura, M. ; Senda, K. ; Toda, H.</i>	
BG-11 - DESIGN AND ANALYSIS OF A NEW SPHERICAL ACTUATOR	207
<i>Chu, J. ; Niguchi, N. ; Hirata, K.</i>	
BG-12 - ADAPTIVE MESHING FOR EDDY CURRENT CALCULATIONS.....	208
<i>Dupuy, D. ; Pedreira, D. ; Verbeke, D. ; Leconte, V. ; Wendling, P. ; Rondot, L. ; Mazauric, V.G.</i>	
BH-01 - OPTIMIZATION AND THERMAL ANALYSIS OF A NEW SELF-DECELERATING PM IN-WHEEL MOTOR FOR ELECTRIC VEHICLES	209
<i>Fan, Y. ; Gu, L. ; Zhou, X.</i>	
BH-02 - MULTI-OBJECTIVE OPTIMAL DESIGN OF TRANSVERSE FLUX PERMANENT MAGNET MOTOR USING DIFFERENTIAL EVOLUTION ALGORITHM.....	210
<i>Li, H. ; Yao, H.</i>	
BH-04 - A NOVEL DUAL MECHANICAL PORT, SPOKE ARRAY, VERNIER PERMANENT MAGNET MACHINE FOR HEVS	211
<i>Li, D. ; Qu, R. ; Li, J.</i>	
BH-08 - AN OPTIMAL FLUX SWITCHING PERMANENT MAGNET MACHINE FOR TOYOTA PRIUS HYBRID ELECTRIC VEHICLE	212
<i>Lei, G. ; Xu, W. ; Zhu, J.</i>	
BH-10 - MAGNETIC FLUX ANALYSIS OF A NEW E-CORE HEFSM WITH VARIOUS SLOT-POLE COMBINATIONS FOR HEV.....	213
<i>Sulaiman, E. ; Zakaria, S.</i>	
BH-11 - OPTIMAL DESIGN OF INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR BY USING A NEW SURROGATE ASSISTED MULTI-OBJECTIVE OPTIMIZATION	214
<i>Lim, D. ; Yi, K. ; Jung, S. ; Ro, J. ; Jung, H.</i>	
BH-12 - QUANTITATIVE COMPARISON OF DOUBLY-SALIENT PM MOTOR WITH INTERIOR PM MOTOR FOR ELECTRIC DRIVE VEHICLE APPLICATIONS.....	215
<i>Li, J. ; Mi, C.</i>	
BI-01 - MAGNETIC CONTROL OF LIVING CELL MACHINERY	216
<i>Zablotskii, V. ; Lunov, O. ; Kubinova, S. ; Sykova, E. ; Le Roy, D. ; Dempsey, N. ; Givord, D. ; Dejneka, A.</i>	
BI-02 - A LARGE ARRAY MTJ BIOSENSOR CHIP: DESIGN, MANUFACTURING AND EVALUATION	217
<i>Shi, S. ; Gao, Y. ; Huo, W. ; Lian, J. ; Zhang, L.</i>	
BI-03 - MAGNETIC NANOPARTICLES FOR MAGNETOMECHANICAL CELL DESTRUCTION AND MAGNETIC HYPERTHERMIA AGENTS	218
<i>Wong, D. ; Yang, Y. ; Gan, W. ; Liu, N. ; Purnama, I. ; Murapaka, C. ; Wong, S. ; Ding, J. ; Lew, W.</i>	
BI-05 - A SPIRAL MICROROBOT PERFORMING LINEAR AND DRILLING MOTIONS BY MAGNETIC GRADIENT AND ROTATING UNIFORM MAGNETIC FIELD TO UNCLOG BLOCKED HUMAN BLOOD VESSELS.....	219
<i>Jang, G. ; Jeon, S. ; Nam, J. ; Lee, W. ; Jang, G.</i>	
BI-06 - PHYSIOLOGICAL MAGNETIC STIMULATION ON CAR DRIVER'S SPINE FOR AROUSAL WITHOUT REBOUND SLEEP PREVENTING DROWSY DRIVING AND BACK-MAGNETOCARDIOGRAM.....	220
<i>Mohri, Yoshiyuki ; Yamada, Muneo ; Kawaguchi, Masato ; Kojima, Shigeya ; Nakano, Tomoaki ; Uchiyama, Tsuyoshi ; Inden, Yasuya ; Mohri, Kaneo</i>	

BI-07 - CLUSTERS OF MAGNETIC NANOPARTICLES AS CONTRAST AGENTS FOR MRI: THE EFFECT OF AGGREGATION ON T2 RELAXIVITY	221
<i>Dedourkova, T. ; Kaman, O. ; Veverka, P. ; Koktan, J. ; Veverka, M. ; Kulickova, J. ; Jirak, Z. ; Herynek, V.</i>	
BI-08 - MAGNETIC SUPERPARAMAGNETIC-LIKE MICROPARTICLES FOR CANCER CELLS DESTRUCTION.....	222
<i>Morcrette, M. ; Joisten, H. ; Ortiz, G. ; Lequien, S. ; Sabon, P. ; Carriere, M. ; Hou, Y. ; Bsiesy, A. ; Dieny, B.</i>	
BI-09 - DEEP TRANSCRANIAL MAGNETIC STIMULATION USING FIGURE-OF-EIGHT AND HALO COILS.....	223
<i>Lu, M. ; Ueno, S.</i>	
BI-10 - IN-VITRO CYTOTOXICITY OF BIOCOMPATIBLE FE-TI-NB-B MAGNETIC NANOPARTICLES IN ALTERNATING MAGNETIC FIELDS.....	224
<i>Chiriac, H. ; Danceanu, C. ; Herea, D. ; Whitmore, L. ; Lostun, M. ; Grigoras, M. ; Carasevici, E. ; Vlad, M. ; Lupu, N.</i>	
BP-01 - DESIGN AND ANALYSIS OF A NEW LINEAR WOUND FIELD FLUX REVERSAL MACHINE.....	225
<i>Xu, L. ; Liu, G. ; Zhao, W.</i>	
BP-02 - DESIGN AND ANALYSIS OF A FLUX-SWITCHING PERMANENT MAGNET LINEAR MACHINE WITH HIGH THRUST DENSITY	226
<i>Zhang, B. ; Cheng, M.</i>	
BP-03 - ELECTROMAGNETIC NAVIGATION DISPLACEMENT TRANSDUCER BASED ON MAGNETIC GRADIOMETER	227
<i>Zhang, M. ; Or, S. ; Wang, S.</i>	
BP-05 - AN IMPROVED METHOD OF INITIAL ROTOR POSITION ESTIMATION AND MAGNETIC POLARITY IDENTIFICATION FOR SURFACE PERMANENT MAGNET SYNCHRONOUS MOTOR	228
<i>Wu, X. ; Wang, H. ; Huang, K. ; Huang, S. ; Wang, L. ; Jiang, Z.</i>	
BP-06 - A COST-EFFICIENT LONG STROKE FIELD MODULATED LINEAR MACHINE.....	229
<i>Liu, X. ; Lu, K. ; Chen, Z.</i>	
BP-07 - PERFORMANCE INVESTIGATION OF A DOUBLE-SIDE PERMANENT MAGNET LINEAR SYNCHRONOUS MOTOR HAVING SHIFTED ENDSP.....	230
<i>Lu, Q. ; Ye, Y.</i>	
BP-08 - ANALYSIS OF TRANSVERSE-FLUX SWITCHED-FLUX PERMANENT MAGNET LINEAR MOTOR.....	231
<i>Lu, Q. ; Ye, Y.</i>	
BP-09 - A LOW-SPEED LINEAR HARMONIC GENERATOR FOR GRID-TIED AND STAND-ALONE OPERATION USING HYBRID EXCITATION TOPOLOGY.....	232
<i>Ching, T. ; Chau, K. ; Li, W. ; Liu, C.</i>	
BP-10 - QUANTITATIVE COMPARISON OF PERMANENT MAGNET LINEAR MACHINES FOR ROPELESS ELEVATOR.....	233
<i>Fan, H. ; Chau, K. ; Liu, C. ; Chan, C.</i>	
BP-11 - INVESTIGATION OF CROSS-COUPLING INDUCTANCES FOR LONG-STATOR PM LINEAR MOTOR ARRANGED IN MULTIPLE SEGMENTS.....	234
<i>Ma, M.</i>	
BP-12 - ANALYTICAL METHODS FOR MINIMIZING DETENT FORCE IN LONG-STATOR PM LINEAR MOTOR INCLUDING LONGITUDINAL END EFFECTS	235
<i>Ma, M.</i>	
BP-15 - A THREE-PHASE TUBULAR PERMANENT-MAGNET LINEAR MOTOR DESIGN FOR HIGH SPEED LIFTING	236
<i>Zhang, H. ; Xi, X.</i>	
BQ-01 - UNIAXIAL MAGNETIC ANISOTROPY INDUCED BY THE ANTIFERROMAGNETIC ORDER IN FE/NIO/MGO(001) SYSTEM.....	237
<i>Liang, J. ; Li, Q. ; Ding, Z. ; Gu, T. ; Sun, L. ; Wu, Y.</i>	
BQ-02 - UNIAXIAL MAGNETIC ANISOTROPY IN AMORPHOUS COFEB FILMS ON DIFFERENT ORIENTATION GAAS SUBSTRATES.....	238
<i>Tu, H. ; You, B. ; Zhang, Y. ; Gao, Y. ; Xu, Y. ; Du, J.</i>	
BQ-04 - MAGNETIC ANISOTROPY AND REVERSAL IN EPITAXIAL FEGA/MGO(001) FILMS DEPOSITED AT OBLIQUE DEPOSITION.....	239
<i>Zhang, Y. ; Zhan, Q. ; Zhenghu, Z. ; Yang, H. ; Xiaoshan, Z. ; Yu, Y. ; Liu, Y. ; Wang, B. ; Li, R.</i>	
BQ-05 - PERPENDICULAR MAGNETIC ANISOTROPY FOR COFEBZR/MGO.....	240
<i>Kil, J. ; Suh, D. ; Park, W. ; Bae, G. ; Kim, G. ; Noh, S. ; Choi, W.</i>	
BQ-06 - DEPENDENCE OF MAGNETIC DOMAIN SIZE OF ULTRA-THIN COPT PERPENDICULAR MAGNETIC ANISOTROPY FILMS ON DEMAGNETIZATION FIELD DIRECTION.....	241
<i>Hara, R. ; Hayakawa, K. ; Kawamura, H. ; Sugita, R.</i>	
BQ-07 - STUDY OF [CO/NI]N/[CO/PT]N-BASED SPIN VALVES WITH PERPENDICULAR MAGNETIC ANISOTROPY	242
<i>Ju, H. ; Li, B. ; Wu, Z. ; Zhang, F. ; Yu, G.</i>	
BQ-08 - SENSITIVE HYDROGENATION EFFECT ON MAGNETIC BEHAVIOR OF COPD ALLOY THIN FILMS.....	243
<i>Lin, W. ; Huang, H. ; Chang, P.</i>	
BQ-09 - OSCILLATORY MAGNETIC COUPLING IN AMORPHOUS COSIB/PT/COSIB STRUCTURE.....	244
<i>Choi, Y. ; Lee, K. ; Kim, Y. ; Kim, T. ; You, C. ; Jung, M.</i>	
BQ-10 - ELECTRICAL CONTROL OF FERROMAGNETISM IN HEUSLER ALLOY CO2FEAL0.5SI0.5 AT ROOM TEMPERATURE.....	245
<i>Wang, H. ; Wu, Y. ; Jiang, Y. ; Zhao, J.</i>	

BQ-12 - MECHANISM OF THE ENHANCED ELECTRIC-FIELD EFFECT ON THE INTERFACIAL MAGNETIC ANISOTROPY OF FE/MGO-BASED STACK STRUCTURE	246
<i>Guan, X. ; Cheng, X. ; Huang, T. ; Miao, X.</i>	
BQ-13 - MAGNETO-TRANSPORT AND THERMOELECTRIC PROPERTIES OF MNP THIN FILM ON GAAS (100)	247
<i>Duong, A. ; Shin, Y. ; Rhim, S. ; Nguyen, V. ; Cho, S.</i>	
BQ-14 - MAGNETOSTRICTION THEORY OF ULTRATHIN NANOFILMS	248
<i>Li, J. ; Bai, N. ; Yun, G.</i>	
BR-02 - HOLLOW STRUCTURED MAGNETIC PARTICLES OF COFe₂O₄ AND THEIR MAGNETORHEOLOGICAL CHARACTERISTICS	249
<i>Zhang, K. ; Piao, S. ; Choi, H.</i>	
BR-03 - SYNTHESIS AND CHARACTERIZATION OF >CO-ZN FERRITE NANOPARTICLES BY HYDROTHERMAL METHOD: A COMPARATIVE STUDY	250
<i>Wang, W. ; Ding, Z. ; Liu, J.</i>	
BR-04 - MAGNETIC PROPERTIES OF COBALT FERRITE (001) FILMS GROWN ON SPINEL-TYPE BUFFER LAYERS	251
<i>Hisamatsu, Y. ; Nizeki, T. ; Yanagihara, H. ; Kita, E.</i>	
BR-05 - INFLUENCE OF PARTICLE SIZE ON DYNAMIC MAGNETIC PROPERTIES OF TAPE-CASTING NICUZN FERRITE SHEETS	252
<i>Wu, X. ; Yan, S. ; Liu, W. ; Peng, Y. ; Feng, Z. ; Chen, Y. ; Harris, V.G.</i>	
BR-07 - THE MAGNETIC THERMO-SENSITIVE MAGNETITE NANOPARTICLES FILLED IN ELECTROSPUN FIBROUS	253
<i>Kim, K. ; Choi, J. ; Kim, J. ; Yang, H. ; Ko, F.</i>	
BR-08 - THE STUDY OF THE PERMEABILITY SPECTRA OF MGCUZN FERRITE FOR NEAR FIELD COMMUNICATION APPLICATION	254
<i>Liu, W. ; Yan, S. ; Jia, H. ; Peng, Y. ; Nie, Y. ; Feng, Z.</i>	
BR-09 - LOW TEMPERATURE SOL-GEL AUTOCOMBUSTION SYNTHESIS AND MAGNETIC PROPERTIES OF MAGNETITE	255
<i>Zhang, X. ; Hua, Z. ; Yang, S.</i>	
BR-12 - GROWTH OF PHASE PURE YTTRIUM IRON GARNET THIN FILMS ON SILICON: THE EFFECT OF SUBSTRATE AND POST DEPOSITION ANNEALING TEMPERATURES	256
<i>Zhang, Y. ; Xie, J. ; Deng, L. ; Bi, L.</i>	
BR-14 - INVESTIGATION OF MAGNETIC PROPERTIES OF SR DOPED BA₃-XSRXCO₂FE₂₄O₄₁ Z-TYPE HEXAFERRITE BY MÖSSBAUER SPECTROSCOPY	257
<i>Lim, J. ; Kim, C.</i>	
BR-15 - PREPARATION AND APPLICATION ON ANTENNA OF SOFT FERRITE CORE FOR WIRELESS SENSOR NETWORKS	258
<i>Li, L. ; Fang, Y. ; Liu, Y.</i>	
BS-03 - MARTENSITIC TRANSFORMATION AND MAGNETOCALORIC EFFECT OF Ni₄₅-XCO₅MN₄₀+XSN₁₀ ALLOYS	259
<i>Guo, Z. ; Xiong, C. ; Pan, L.</i>	
BS-04 - PHASE TRANSITION AND MAGNETOCALORIC PROPERTIES OF Ni₅₀MN₃₅-XIN₁₅CUX ALLOYS AND RIBBONS	260
<i>Liu, J. ; Fei, X. ; Xu, F.</i>	
BS-05 - MARTENSITIC TRANSITIONS AND MAGNETOCALORIC PROPERTIES IN MN₄₉-XCOXNi₄₁SN₁₀ (X = 0-4) RIBBONS	261
<i>Shih, C. ; Yuan, R. ; Ma, S. ; Chang, W.C.</i>	
BS-06 - THE MAGNETIC STATES OF THE Ni_{1.75}Co_{0.25}Mn_{1.25}Cr_{0.25}In_{0.5} HEUSLER ALLOY	262
<i>Buchelnikov, V.D. ; Sokolovskiy, V.V. ; Gruner, M. ; Entel, P.</i>	
BS-08 - MICROSTRUCTURE AND MAGNETOCALORIC EFFECT OF LaFe₁₁Co_{0.8}Si_{1.2} STRIP-CAST FLAKES	263
<i>Zhang, M. ; Zhang, Z. ; Shao, Y. ; Yan, A. ; Liu, J.</i>	
BS-09 - MECHANIC PROPERTIES AND MAGNETOCALORIC EFFECTS OF BONDED La_{0.9}Co_{0.1}Fe_{11.7}-X_{0.3}Mn_{0.7}Si_{1.3}H_{1.8}	264
<i>Xia, W. ; Song, L. ; Huang, J. ; Ou, Z.</i>	
BS-10 - LaFe_{11.6}Si_{1.4}/Cu COMPOSITES PREPARED BY HOT PRESSING	265
<i>Liu, J. ; Zhang, M. ; Shao, Y. ; Yan, A.</i>	
BS-11 - POLYMER-BONDED La(Fe, Mn, Si)₁₃Hx HEAT EXCHANGERS WITH OPTIMIZED MAGNETOCALORIC PROPERTIES	266
<i>Skokov, K.P. ; Radulov, I.A. ; Karpenkov, D.Y. ; Gottschall, T. ; Gutfleisch, O.</i>	
BS-12 - MAGNETIC PROPERTIES AND MAGNETOCALORIC EFFECT STUDIES FOR La_{0.6}Co_{0.4}Fe_{11.5}Si_{1.5}	267
<i>Nan, W. ; Kim, K. ; Yu, S. ; You, T. ; Kang, B.</i>	
BS-13 - ASSESSMENT OF THE MAGNETIC ENTROPY CHANGE OF (La_{0.6}Pr_{0.4})(Fe, Si)₁₃ UNDER CYCLING	268
<i>Kaeswurm, B. ; Franco, V. ; Skokov, K.P. ; Gutfleisch, O.</i>	
BS-14 - FEMTO SECOND PULSED LASER DEPOSITION OF NANOPARTICULATE THIN FILM OF GD₅(SIXGE_{1-X})₄	269
<i>Hadimani, R.L. ; Shaw, A.H. ; Schlagel, D.L. ; Lograsso, T.A. ; Da Silva, J.H. ; Pereira, A.M. ; Araujo, J.P. ; Balfou, E.A. ; Fu, H. ; Jiles, D.</i>	

BS-16 - EXCELLENT MECHANICAL PROPERTIES AND SPECIFIC HEAT CAPACITY OF ER3+XNI BINARY ALLOYS.....	270
<i>Hu, J. ; Shi, J. ; Xue, J. ; Long, Y. ; Ye, R.</i>	
BT-01 - DEVELOPMENT OF LOW-NOISE THREE-AXIS MAGNETOMETER WITH TUNNELING-MAGNETORESISTANCE SENSORS.....	271
<i>Luong, V. ; Jeng, J ; Lai, B ; Lu, C</i>	
BT-03 - DESIGN OF THREE-DIMENSIONAL MAGNETIC FIELD SENSOR WITH SINGLE BRIDGE OF SPIN-VALVE GIANT MAGNETORESISTANCE FILMS	272
<i>Luong, V. ; Jeng, J ; Lai, B ; Hsu, J ; Chang, C ; Lu, C</i>	
BT-04 - PREDICTION AND OPTIMIZATION FOR LINEARITY OF MTJ MAGNETIC SENSORS BASED ON SINGLE-DOMAIN MODEL	273
<i>Ouyang, Y. ; He, J. ; Hu, J. ; Zhao, G. ; Xue, F. ; Wang, S.X.</i>	
BT-06 - TEMPERATURE CHARACTERISTICS OF A FLUXGATE CURRENT SENSOR WITH FE-NI-CO RING CORE	274
<i>Watanabe, Y. ; Otsubo, M. ; Yanai, T. ; Nakano, M. ; Fukunaga, H.</i>	
BT-07 - LANGEVIN MAGNETIC SENSOR USING PERPENDICULAR ANISOTROPIC COFEB/MGO/COFEB TUNNELING JUNCTION WITH FERROMAGNETIC AND SUPERPARAMAGNETIC COFEB LAYERS	275
<i>Cheng, C. ; Wang, C. ; Li, D. ; Han, X. ; Chern, G.</i>	
BT-08 - A FLUXGATE CURRENT SENSOR WITH A U-SHAPED MAGNETIC GATHERING SHELL	276
<i>Yang, X. ; Yang, Xiaoguang ; Guo, Wei ; Li, Congcong ; Zhu, Bo</i>	
BT-10 - DYNAMIC PROPERTIES OF MGO/COFEB BASED SENSORS WITH PERPENDICULAR ANISOTROPY	277
<i>Dabek, M. ; Wisniowski, P.</i>	
BT-11 - BENDING EFFECT ON MAGNETORESISTIVE SILICON PROBES	278
<i>Valadeiro, J. ; Amaral, J. ; Gaspar, J. ; Leitao, D.C. ; Silva, A.V. ; Cardoso, S. ; Freitas, P.</i>	
BT-12 - LOW FREQUENCY NOISE CHARACTERIZATION OF COFEB/MGO/COFEB MTJ BASED PERPENDICULAR FIELD SENSOR.....	279
<i>Lee, Y. ; Das, B. ; Li, L. ; Suen, Y. ; Horng, L. ; Wu, T. ; Chang, C. ; Wu, J.</i>	
BU-01 - VECTOR POTENTIAL COIL AND TRANSFORMER	280
<i>Daibo, M. ; Oshima, S. ; Sasaki, Y. ; Sugiyama, K.</i>	
BU-02 - MICROWAVE AND MILLIMETER WAVE DIELECTRIC PERMITTIVITY AND MAGNETIC PERMEABILITY OF EPSILON-GALLIUM-IRON-OXIDE NANO-POWDERS	281
<i>Afsar, M.N. ; Chao, L. ; Ohkoshi, S.</i>	
BU-04 - EFFECTS OF GRAIN SIZE ON MAGNETIC AND DIELECTRIC PROPERTIES OF NANO-FERRITES AT MICROWAVE AND MILLIMETERWAVE FREQUENCIES	282
<i>Afsar, M.N. ; Sharma, A.</i>	
BU-06 - DISORDER-INDUCED ENHANCEMENT OF MAGNETISM IN BALL-MILLED FE2CRAL ALLOY	283
<i>Zhang, H. ; Liu, E. ; Yue, M. ; Wang, W. ; Altounian, Z. ; Wu, G.</i>	
BU-07 - ROLE OF SURFACE ON MAGNETIC PROPERTIES OF LA1-XSRXMN03+D NANOCRYSTALLITES	284
<i>Jirak, Z ; Kacenska, M. ; Kaman, O. ; Marysko, M. ; Belozerova, N. ; Kichanov, S. ; Kozlenko, D.</i>	
BU-08 - KINETICS OF FIRST ORDER MAGNETOSTRUCTURAL TRANSITION IN SINGLE CRYSTALLINE FERH THIN FILM	285
<i>Lu, W. ; Xu, Y. ; Fang, X. ; Song, Y. ; Li, X.</i>	
BU-09 - ZITTERBEWEGUNG INDUCED BY SPIN AND PSEUDOSPIN PRECESSION IN THIN TOPOLOGICAL INSULATOR FILM	286
<i>Ho, C. ; Jalil, M.B.</i>	
BU-11 - PROPER AND IMPROPER SRRUO3 PHASE AND CORRESPONDING ITINERANT FERROMAGNETIC BEHAVIOR.....	287
<i>Dwivedi, G.D. ; Lee, C. ; Huang, T. ; Liang, Y. ; Huang, H. ; Jhong, D. ; Chan, W. ; Chou, H.</i>	
BU-13 - ANOMALOUS MAGNETIC AND ELECTRICAL TRANSPORT BEHAVIOUR IN INTERMETALLIC CO58.5GA41.5	288
<i>Yasin, S.M. ; Saha, R. ; Srinivas, V. ; Kasiviswanathan, S. ; Nigam, A.</i>	
BU-15 - TRANSPORT CHARACTERIZATIONS AND DIODELIKE BEHAVIOUR OF MN0.98CR0.02TE FILM PREPARED BY PULSED LASER DEPOSITION	289
<i>Yang, L. ; Wang, Z. ; Zhang, Z.</i>	
BV-01 - CONTROLLING MAGNETIC ANISOTROPY ENERGY BY ELECTRIC FIELD IN 2D MAGNET: (111) SURFACE OF YCO2.....	290
<i>Rana, T.H. ; Kashyap, A. ; Biswas, D. ; Sabirianov, P.</i>	
BV-02 - VACANCY FORMATION ENERGY IN DISORDERED FEPT MEDIATED BY DISTORTION AND MAGNETISM.....	291
<i>Luo, H. ; Xia, W. ; Du, J. ; Zhang, J. ; Yan, A. ; Liu, J.</i>	
BV-04 - FIRST-PRINCIPLES CALCULATIONS OF MAGNETIC PROPERTIES OF CR-DOPED NI45CO5MN37IN13 HEUSLER ALLOYS.....	292
<i>Sokolovskiy, V.V. ; Buchelnikov, V.D. ; Gruner, M. ; Entel, P.</i>	
BV-05 - FAST COMPUTATION OF TORQUE-SPEED CHARACTERISTICS OF INDUCTION MACHINES	293
<i>Niu, S. ; Ho, S.L. ; Fu, W.</i>	
BV-07 - NONLINEAR CONVERGENCE ACCELERATION OF MAGNETIC FIELD COMPUTATION.....	294
<i>Niu, S. ; Ho, S.L. ; Fu, W.</i>	

BV-10 - A CIRCUIT MODEL OF TRANSVERSE ELECTRIC EDDY CURRENT PROBLEMS IN MAGNETIC RINGS.....	295
<i>He, J. ; Liu, W. ; Guan, Y.</i>	
BV-11 - EFFECT OF DOPING ON B2-PHASE ORDERING TEMPERATURE OF CO-BASED HEUSLER ALLOY: AN AB INITIO STUD.....	296
<i>Xu, X. ; Zhao, B. ; Wu, Y. ; Jiang, Y.</i>	
BV-13 - INVERTING THE PREISACH MODEL OF HYSTERESIS.....	297
<i>Andrei, P.</i>	
BV-15 - ANALYSIS OF NOISE SPECTRAL DENSITY AND COHERENCE RESONANCE PHENOMENA IN MIXED HYSTERETIC SYSTEMS DRIVEN BY NOISE.....	298
<i>Dimian, M. ; Andrei, P. ; Mehta, M. ; Idubor, O.</i>	
BV-16 - GRAIN SCALE HYSTERESIS MODEL EMBEDDED IN A MULTI-SCALE MATERIAL MODEL.....	299
<i>Vanoost, D. ; Steentjes, S. ; Peuteman, J. ; Gielen, G. ; De Gersem, H. ; Pisssoort, D. ; Hameyer, K.</i>	
BW-01 - APPLICATION OF ONE AXIS CONTROLLED MAGNETIC BEARING WITH A HOLLOW SHAFT TO NON-CONTACT ROTATION DRIVE.....	300
<i>Hirose, K. ; Komori, M. ; Sakai, A. ; Asami, K.</i>	
BW-02 - DYNAMIC NONLINEAR MODEL WITH EDDY CURRENT EFFECT FOR STRESS-DRIVEN GALFENOL ENERGY.....	301
<i>Cao, S. ; Zhang, P. ; Zheng, J. ; Zhao, Z. ; Wang, B.</i>	
BW-03 - CONTROL INTEGRATED STUDIES ON HSPGS.....	302
<i>Li, J. ; Zhang, X. ; Zhang, H. ; Gerada, C.</i>	
BW-04 - OMNIDIRECTIONAL WIRELESS POWER TRANSFER SYSTEM SUPPORTING MOBILE DEVICES.....	303
<i>Che, B. ; Meng, F. ; Lyu, Y. ; Zhang, K. ; Yang, G. ; Fu, J. ; Wu, Q. ; Li, S.</i>	
BW-05 - MULTI-OBJECTIVE OPTIMAL CONTROL FOR EMS BASED ON REDUCED ORDER OBSERVER.....	304
<i>Kim, C. ; Oh, Y. ; Hong, H.</i>	
BW-06 - ANALYSIS OF A SMALL SIZE RESONATOR FOR WEARABLE DEVICE BASED ON COUPLED MAGNETIC RESONANCE.....	305
<i>Xu, G. ; Zhang, Y. ; Zhao, J. ; Yang, X. ; Han, C. ; Xu, D.</i>	
BW-07 - AN ENERGY-ENCRYPTED CONTACTLESS CHARGING SYSTEM FOR SWARM ROBOTS.....	306
<i>Zhang, Z. ; Xu, X. ; Li, B. ; Deng, B.</i>	
BW-08 - A NEW DIAGNOSTIC METHOD OF OPEN SWITCH FAULTS IN INVERTERS USING SLIDING MODE OBSERVER AND MLD MODEL.....	307
<i>Zhang, X.</i>	
BW-09 - MAGNETIC ACTUATOR CONTROL OF OIL WHIP INSTABILITY IN BEARINGS.....	308
<i>Dimitri, A. ; Ahmed, A.Elshafei ; Adly, A. ; Mahfoud, J.</i>	
BW-10 - HYBRID PULSE WIDTH MODULATION TECHNIQUE FOR WIDE SPEED RANGE WITH LOW COST DRIVERS ON IPMSM.....	309
<i>Ahn, H. ; Hong, H. ; Oh, Y. ; Lee, J. ; Lee, J.</i>	
BW-11 - A NEW SLIDING MODE FLUX OBSERVER FOR A DIRECT TORQUE CONTROLLED PMSM DRIVE.....	310
<i>Zhang, X. ; Li, Z.</i>	
BW-12 - A NEW DECOUPLED CONTROL FOR FIVE-PHASE IN-WHEEL FAULT-TOLERANT PERMANENT MAGNET MOTORS FOR ELECTRIC VEHICLES.....	311
<i>Liu, G. ; Cai, X. ; Zhao, W.</i>	
BW-13 - DUAL LOOP POSITION CONTROL OF A LINEAR HYBRID SWITCHED RELUCTANCE MACHINE WITH ZERO COGGING FORCE.....	312
<i>Zhang, B. ; Zou, Y.</i>	
BW-14 - COMPARISON OF EXPERIMENT AND SIMULATION RESULTS FOR INDUCTANCE AND EQUIVALENT RESISTANCE OBTAINED USING MULTI-PORT TRANSFORMER MODEL AND FEM.....	313
<i>Sasayama, T. ; Yanamoto, Y. ; Funaji, S. ; Ao, T.</i>	
BW-15 - A LOW-FREQUENCY RESONANT ELECTROMAGNETIC VIBRATION ENERGY HARVESTER EMPLOYING THE HALBACH ARRAYS FOR INTELLIGENT WIRELESS SENSOR NETWORKS.....	314
<i>Qiu, J. ; Liu, X. ; Wen, Y. ; Li, P. ; Li, W.</i>	
BW-16 - CALCULATION AND ELIMINATION OF THE RESIDUAL FLUX IN THE CLOSED MAGNETIC CORE.....	315
<i>Ge, W. ; Wang, Y.</i>	
BX-01 - RESEARCH OF TRANSFORMER WINDING DEFORMATION BASED ON FINITE ELEMENT METHOD.....	316
<i>Yuan, J. ; Yuan, J. ; Yu, Z.</i>	
BX-02 - RESEARCH ON THE INFLUENCE OF HVDC TRANSMISSION ON MEASURING ACCURACY OF CURRENT TRANSFORMERS.....	317
<i>Yang, S. ; Wei, Z. ; Cai, J. ; Zhou, G. ; Wang, Z.</i>	
BX-04 - MAGNETOSTRICTION AND MAGNETIC LOSS VARIATION DEPENDENT ON STRESS FOR POWER TRANSFORMER CORE.....	318
<i>Hsu, C. ; Jen, S. ; Liu, J. ; Fu, C. ; Cheng, S.</i>	
BX-05 - DOUBLE-LADDER CIRCUIT MODEL OF TRANSFORMER WINDINGS FOR FREQUENCY RESPONSE ANALYSIS CONSIDERING FREQUENCY-DEPENDENT LOSSES.....	319
<i>Zhang, H. ; Wang, S. ; Zhu, J. ; Guo, Y.</i>	

BX-06 - OPTIMAL DESIGN OF MAGNETIC SHIELDING PLATES FOR MAIN-TRANSFORMER IN HIGH-SPEED RAILWAY VEHICLE USING DESIGN OF EXPERIMENT	320
<i>Baek, J. ; Yun, S. ; Lee, S.</i>	
BX-08 - AN INTEGRATED HARMONIC-FILTERING TRANSFORMER FOR LOW-VOLTAGE DISTRIBUTION SYSTEMS.....	321
<i>Liang, C. ; Luo, L.</i>	
BX-10 - COPPER LOSSES ANALYSIS OF EV CHARGING COUPLERS.....	322
<i>Wang, S. ; Dorrell, D.G.</i>	
BX-11 - A NOVEL COMPACT STRUCTURE OF THE THREE-PHASE VIRTUAL AIR GAP CONTROLLABLE REACTOR	323
<i>Chen, X. ; Wang, Z. ; Yu, Z. ; Chen, B.</i>	
BX-12 - MULTILAYER POWER CHOKE INDUCTOR WITH METAL POWDER	324
<i>Kawano, K. ; Arai, T. ; Hachiya, M. ; Takahashi, O. ; Oyama, K.</i>	
BX-13 - A NEW STRESS-BASED VARIABLE-INDUCTOR FOR ELECTRONIC BALLASTS	325
<i>Xia, Y. ; Zhang, L. ; Lu, K. ; Fang, Y. ; Wang, D.</i>	
BX-14 - IRON LOSS COMPARISON BETWEEN REACTOR WITH AIR GAP AND MATERIAL	326
<i>Yamamoto, S. ; Denis, N. ; Fujisaki, K.</i>	
BX-15 - DOMAIN STRUCTURE OF MICRO-PATTERNED COZRTA WITH 45 DEGREE INDUCED ANISOTROPY FOR ISOTROPIC HIGH PERMEABILITY.....	327
<i>Sato, N. ; El-Ghazaly, A. ; White, R.M. ; Wang, S.X.</i>	
BY-01 - DESIGN AND OPTIMIZATION OF A TUNABLE MAGNETOELECTRIC AND ELECTROMAGNETIC HYBRID VIBRATION-BASED GENERATOR FOR WIRELESS SENSOR NETWORKS.....	328
<i>Qiu, J. ; Chen, H. ; Wen, Y. ; Li, P. ; Li, W.</i>	
BY-02 - SIZE REDUCTION OF PERMANENT MAGNET GENERATORS FOR WIND TURBINES USING HALBACH CYLINDERS	329
<i>Khazdozian, H.A. ; Hadimani, R.L. ; Jiles, D.</i>	
BY-05 - A SIMPLE STRUCTURE PASSIVE MPPT STAND-ALONE WIND TURBINE GENERATOR SYSTEM	330
<i>Bai, Y. ; Kou, B. ; Chan, C.</i>	
BY-06 - DETECTION OF STATIC AND DYNAMIC ECCENTRICITIES IN A PERMANENT MAGNET MOTOR BY MONITORING BEMF.....	331
<i>Kang, K. ; Sung, S. ; Song, J. ; Seo, B. ; Jang, G.</i>	
BY-07 - CHARACTERISTICS ANALYSIS OF THE EXCITATION ASSISTANCE SWITCHED RELUCTANCE WIND POWER GENERATOR.....	332
<i>Liu, X. ; Wang, C. ; Chen, Z.</i>	
BY-08 - DESIGN AND CONSTRUCTION OF HIGH EFFICIENCY MAGNETOSTRICTIVE ENERGY HARVESTER FOR HUGE AND SHORT-TIME IMPACT VIBRATION SYSTEMS	333
<i>Yan, B.</i>	
BY-10 - DESIGN AND OPTIMIZATION OF AN ELECTROMAGNETIC ENERGY HARVESTER USING DUAL HALBACH ARRAYS.....	334
<i>Liu, X. ; Qiu, J. ; Chen, H. ; Wen, Y.</i>	
BY-11 - ANALYSIS AND OPTIMIZATION OF A DOUBLE-SIDED AIR-CORED TUBULAR GENERATOR	335
<i>Guo, L. ; Zhang, H. ; Li, J. ; Galea, M. ; Gerada, C.</i>	
BY-13 - A NOVEL TRANSVERSE FLUX PERMANENT MAGNET GENERATOR WITH DOUBLE C-HOOP STATOR FOR WIND POWER GENERATION	336
<i>Jia, Z. ; Lin, H.</i>	
BY-14 - PERFORMANCE EVALUATION OF CORELESS AXIAL FLUX PERMANENT MAGNET WIND GENERATOR	337
<i>Lee, D. ; Jeon, K. ; Kim, Y. ; Jung, S.</i>	
BY-15 - A BROADBAND AND TWO-DIMENSIONAL VIBRATION ENERGY HARVESTER USING MULTIPLE MAGNETOSTRICTIVE/PIEZOELECTRIC COMPOSITE TRANSDUCERS	338
<i>Yang, J. ; Yu, Q. ; Zhao, J. ; Qiu, J. ; Wen, Y. ; Li, P.</i>	
BZ-01 - IMPROVED ACCURACY FOR PERFORMANCE PREDICTION OF SYNCHRONOUS RELUCTANCE MOTOR BY INCORPORATING END TURN INDUCTANCE IN 2-D FEM	339
<i>Hsieh, M. ; Lin, I. ; Tsai, M.</i>	
BZ-02 - PERFORMANCE IMPROVEMENT OF AN AUTOMOTIVE ALTERNATOR BY HEAT TREATMENT	340
<i>Kim, J. ; Hong, J. ; Lee, J. ; Park, S.</i>	
BZ-03 - IN-SITU MAGNETIZATION OF PERMANENT MAGNET MACHINES CONSIDERING MAGNETIZER CAPACITY AND CONNECTION TYPES	341
<i>Hsieh, M. ; Yu, S.</i>	
BZ-04 - MODELING OF A BEARINGLESS PERMANENT MAGNET SYNCHRONOUS MOTOR USING ADAPTIVE WEIGHTED LEAST SQUARE SUPPORT VECTOR MACHINE	342
<i>Sun, X. ; Luo, S. ; Zhu, J. ; Yang, Z. ; Li, F.</i>	
BZ-06 - EXPERIMENTAL CHARACTERIZATION OF SLINKY-LAMINATED CORE AND IRON LOSS ANALYSIS OF ELECTRIC MACHINE	343
<i>Lim, M. ; Kim, J. ; Hong, J.</i>	
BZ-07 - NEW MAGNETIZING PROCEDURE FOR BONDED-MAGNETS WITH ENHANCED SURFACE FLUX DENSITY	344
<i>Isogami, S. ; Sakai, T. ; Kanamaru, M.</i>	

BZ-08 - EVALUATION ON IRON LOSS OF REACTOR CORE UNDER HIGH FREQUENCY EXCITATION BY MAGNETIC FIELD ANALYSIS	345
<i>Odawara, S. ; Sawatari, K. ; Yamamoto, S. ; Fujisaki, K. ; Shindo, Y. ; Yoshikawa, N. ; Konishi, T.</i>	
BZ-13 - ANISOTROPIC MAGNETOSTRICTION OF NON-ORIENTED SILICON STEEL SHEET AND ITS FREQUENCY DEPENDENCE	346
<i>Zhang, Y. ; Wang, Y. ; Ren, Z.</i>	
BZ-14 - OPTIMAL MAGNET DESIGN FOR CONSIDERING MANUFACTURE OF MAGNETIZING PROCESS	347
<i>Kang, D. ; Jeong, T. ; Hong, H. ; Lee, J.</i>	
BZ-15 - IMPACT OF ELECTRICAL STEEL PUNCHING PROCESS ON PERFORMANCE OF SWITCHED RELUCTANCE MOTORS	348
<i>Hsieh, M. ; Chiang, C. ; Tsai, M.</i>	
CA-02 - MAGNETIC HEUSLER ALLOYS AND CPP GMR: TECHNOLOGY BREAKTHROUGH AND POTENTIAL APPLICATION IN MAGNETIC RECORDING	349
<i>Diao, Z. ; Zheng, Y. ; Kaiser, C. ; Jiang, X. ; Chen, L. ; Roy, A. ; Chien, C. ; Wang, M. ; Gider, S. ; Mauri, D. ; Leng, Q.</i>	
CA-04 - ROBUST SPIN CURRENTS IN MESOSCOPIC METALLIC LATERAL STRUCTURES	350
<i>Ji, Y. ; Chen, S. ; Zou, H. ; Qin, C. ; Cai, Y. ; Luo, Y. ; Zhou, C. ; Wu, Y.</i>	
CB-01 - EXCITATION OF MAGNETIZATION DYNAMICS BY PURE SPIN CURRENTS	351
<i>Demidov, V.E. ; Urazhdin, S. ; Demokritov, S.O.</i>	
CB-02 - GENERATION OF HIGHLY STABLE 5 GHZ MICROWAVE FROM A SPIN TORQUE OSCILLATOR BY PHASE LOCKED LOOP REFERENCED TO A 80 MHZ CLOCK	352
<i>Tamaru, S. ; Yakushiji, K. ; Wang, B. ; Fukushima, A. ; Kubota, H.</i>	
CB-03 - SPIN-TRANSFER EFFECTS IN MGO-BASED TUNNEL JUNCTIONS WITH AN OUT-OF-PLANE FREE LAYER AND AN IN-PLANE POLARIZER: STATIC STATES AND STEADY-STATE PRECESSION	353
<i>Kowalska, E. ; Sluka, V. ; Fowley, C. ; Kakay, A. ; Aleksandrov, Y. ; Lindner, J. ; Fassbender, J. ; Deac, A.</i>	
CB-04 - UTILIZING SPIN-PUMPING, INVERSE SPIN-HALL AND SPIN-HALL PHENOMENA FOR SYNCHRONIZATION OF NANO MAGNETIC OSCILLATORS	354
<i>Elyasi, M. ; Bhatia, C.S. ; Yang, H.</i>	
CB-05 - LARGE AMPLITUDE SPIN TRANSFER TORQUE NANO-OSCILLATORS IMPLEMENTED WITH INTERMEDIATE THICKNESS MGO BARRIERS IN THE 10–30 O_pM2 RANGE	355
<i>Costa, D. ; Serrano-Guisan, S. ; Paz, E. ; Borme, J. ; Teixeira, J. ; Ventura, J. ; Ferreira, R. ; Freitas, P.</i>	
CB-06 - MAGNETO-OPTICAL OBSERVATION OF MUTUAL PHASE-LOCKING IN A PAIR OF SPIN-TORQUE VORTEX OSCILLATORS	356
<i>Keatley, P.S. ; Sani, S. ; Hrkac, G. ; Mohseni, S. ; Durrenfeld, P. ; Akerman, J. ; Hicken, R.</i>	
CB-09 - MAGNETIC STOCHASTIC OSCILLATORS: NOISE-INDUCED SYNCHRONIZATION TO UNDER-THRESHOLD EXCITATION AND COMPREHENSIVE COMPACT MODEL	357
<i>Mizrahi, A. ; Locatelli, N. ; Matsumoto, R. ; Fukushima, A. ; Kubota, H. ; Yuasa, S. ; Cros, V. ; Kim, J. ; Grollier, J. ; Querlioz, D.</i>	
CB-10 - TOPOLOGICAL SKYRMION DYNAMICS DRIVEN BY SPIN-TRANSFER TORQUE	358
<i>Carpentieri, M. ; Tomasello, R. ; Finocchio, G. ; Zivieri, R.</i>	
CC-01 - MANIPULATION OF NUCLEAR SPINS IN GAAS USING A HALF-METALLIC SPIN SOURCE OF CO₂MNSI	359
<i>Uemura, T. ; Yamamoto, M.</i>	
CC-02 - MBE-GROWN MN-DOPED SNSE2 2D FILMS ON GAAS (111)B SUBSTRATES	360
<i>Liu, X. ; Li, X. ; Vishwanath, S. ; Dong, S. ; Yoo, T. ; Jena, D. ; Xing, H. ; Dobrowolska, M. ; Furdyna, J.K.</i>	
CC-04 - HIGH CURIE TEMPERATURE AND PERPENDICULAR MAGNETIC ANISOTROPY IN HOMOEPITAXIAL INMNAS FILMS	361
<i>Yuan, Y.</i>	
CC-05 - NEW METHOD FOR EFFECTIVE MANIPULATION OF THE MAGNETISM IN (GA, MN)AS FILMS BY ORGANIC MOLECULES	362
<i>Wang, X. ; Wang, H. ; Pan, D. ; Keiper, T. ; Li, L. ; Yu, X. ; Lu, J. ; Lochner, E. ; Molnar, S.V. ; Xiong, P. ; Zhao, J.</i>	
CC-06 - ANISOTROPIC AC MAGNETIC SUSCEPTIBILITY IN (GA, MN)AS FILM	363
<i>Li, X. ; Dong, S. ; Yoo, T. ; Liu, X. ; Dobrowolska, M. ; Furdyna, J.K.</i>	
CC-07 - SPIN RELAXATION IN N-TYPE MULTIVALLEY SEMICONDUCTORS	364
<i>Song, Y. ; Chalaev, O. ; Dery, H.</i>	
CC-09 - MAGNETOCAPACITIVE RESPONSE IN ORGANIC SPIN VALVE WITH A 3,4,9,10-PERYLENE-TERACARBOXYLIC-DIANHYDRIDE SPACER	365
<i>Hong, J. ; Chen, S. ; Chiang, W. ; Lin, M.</i>	
CD-01 - FIELD/STRESS TUNABLE BEHAVIOUR OF COMPOSITES CONTAINING THE COMBINED CURRENT-MODULATION ANNEALED FERROMAGNETIC MICROWIRES	366
<i>Luo, Y. ; Scarpa, F. ; Qin, F. ; Liu, J. ; Wang, H. ; Brosseau, C. ; Xing, D. ; Sun, J. ; Peng, H.</i>	
CD-03 - EFFECTS OF ALLOYING ELEMENTS ON THERMAL STABILITY, GLASS-FORMING ABILITY AND SOFT MAGNETIC PROPERTIES OF FE-P-C-B METALLIC GLASSES	367
<i>Zhang, W. ; Miu, H. ; Jia, X. ; Li, Y. ; Xie, G.</i>	
CD-04 - ENHANCING THE MICROWAVE ABSORPTION PROPERTIES OF FE-CU-NB-SI-B NANOCOMPOSITE FLAKES BY COATING WITH SPINEL FERRITE NIFE₂O₄	368
<i>Wu, Y. ; Han, M. ; Deng, L.</i>	
CD-06 - TRANSPORT AND MAGNETIC PROPERTIES OF A MAGNETIC-SUPERCONDUCTOR CO₇₀4FE₄6SI₁₅B₁₀-NB BULK CORE-SHELL STRUCTURED MATERIAL	369
<i>Barbosa, G. ; De Araujo Machado, F.</i>	

CD-07 - DEVELOPMENT OF FE-BASED AMORPHOUS ALLOYS WITH HIGH BS AND AMORPHOUS-FORMING ABILITY	370
<i>Wang, A. ; Zhao, C. ; He, M. ; Chang, C. ; Wang, X. ; Li, R.</i>	
CD-08 - FABRICATION OF FEPBNBCR GLASSY CORES WITH GOOD SOFT MAGNETIC PROPERTIES BY HOT PRESSING.....	371
<i>Dong, Y. ; Man, Q. ; Zhang, J. ; Chang, C. ; Li, R. ; Wang, X.</i>	
CD-09 - STUDY ON MAGNETIC PROPERTIES AND DOMAIN STRUCTURES OF FE-(5, 6) WT% SI ALLOYS PREPARED WITH HIGH PURITY METALLURGY	372
<i>Lei, Z. ; Horiuchi, T. ; Mimura, Y. ; Sasaki, I. ; Kaido, C. ; Takezawa, M. ; Kubo, S. ; Ogawa, T. ; Era, H.</i>	
CD-10 - THE INFLUENCE OF ANNEALING TEMPERATURE ON THE STRUCTURE AND MAGNETIC PROPERTIES OF FE-SI-AL-CR FLAKE-SHAPED PARTICLES.....	373
<i>Zhang, N. ; Xie, J. ; Wang, X. ; Shi, H.</i>	
CD-11 - HIGH FREQUENCY MAGNETIC RESPONSE PROPERTIES BY INTRODUCING CHROMIUM INTO FE-HF-B-O RIBBONS.....	374
<i>Wang, Y. ; Zhou, Y. ; Xiao, J.Q. ; Zhai, Y.</i>	
CD-12 - MICROSTRUCTURE AND TEXTURE EVOLUTION OF STRIP CASTING GRAIN-ORIENTED SILICON STEEL	375
<i>Song, H. ; Liu, H. ; Lu, H. ; Liu, Z. ; Wang, G.</i>	
CF-01 - INTRINSIC MAGNETIC PROPERTIES IN DOPED CE₂CO₁₇ AND CEFE₁₁TI SYSTEMS	376
<i>Ke, L. ; Kukusta, D. ; Mccallum, R.W. ; Antropov, V.</i>	
CF-02 - A HYBRID MESHING TECHNIQUE FOR FERROMAGNETIC STRUCTURES BASED ON THE PEEC METHOD	377
<i>Xia, N.</i>	
CF-03 - LIGHTNING-INDUCED MAGNETIC FIELD DISTRIBUTION ON CABLE-STAYED BRIDGE BASED ON MODIFIED EQUIVALENT ELECTRICAL-CIRCUIT METHOD	378
<i>Bian, X. ; Geng, Y.</i>	
CF-04 - ELECTRICALLY CONTROLLED SPIN INJECTION INTO A FERROELECTRIC SEMICONDUCTOR.....	379
<i>Liu, X. ; Burton, J.D. ; Zhuravlev, M.Y. ; Tsymbal, E.Y.</i>	
CF-07 - LATENT HEAT OF MAGNETIZATION OF MNFESIP-SYSTEM.....	380
<i>Roy, P. ; Bruck, E. ; De Groot, R.A.</i>	
CF-10 - AN ENERGY MINIMIZATION APPROACH TO VECTOR HYSTERESIS MODELING IN OBJECTS HAVING ARBITRARY SHAPES.....	381
<i>Adly, A. ; Abd-El-Hafiz, S.</i>	
CF-11 - ANALYTICAL HYSTERESIS MODEL FOR NUMERICAL ELECTROMAGNETIC SIMULATIONS	382
<i>Mousavi, S. ; Engdahl, G. ; Lotfi, A.</i>	
CF-12 - OPTIMIZATION OF MAGNETIC READ WIDTHS IN TWO DIMENSIONAL MAGNETIC RECORDING BASED ON MICROMAGNETIC SIMULATIONS.....	383
<i>Park, J. ; Lengsfeld, B. ; Galbraith, R. ; Wood, R. ; Fu, S.</i>	
CG-03 - EXTRAORDINARY EXCHANGE-BIAS EFFECTS IN COUPLED SMC05 (PERPENDICULAR)/COFEB (IN-PLANE) BILAYERS.....	384
<i>Bollero, A. ; Pedrosa, F. ; Cunado, J. ; Camarero, J. ; Seifert, M. ; Neu, V. ; Baltz, V. ; Serantes, D. ; Chubykalo-Fesenko, O. ; Del Real, R. ; Vazquez, M. ; Schultz, L. ; Dieny, B. ; Miranda, R.</i>	
CG-05 - MAGNETIC CHIRAL SPIN TEXTURES BY IMPRINTING.....	385
<i>Streubel, R. ; Kronast, F. ; Rossler, U. ; Schmidt, O.G. ; Fischer, P. ; Makarov, D.</i>	
CG-06 - SPIN WAVE WAVEGUIDES FORMED BY DOMAIN WALLS IN ARRAYS OF DIPOLARLY COUPLED MAGNETIC NANODOTS	386
<i>Lisenkov, I. ; Louis, S. ; Nikitov, S.A. ; Tyberkevych, V. ; Slavin, A.</i>	
CG-08 - DETERMINISTIC MOTION OF DOMAIN WALL IN ARTIFICIAL SPIN ICE LATTICE	387
<i>Sethi, P. ; Murapaka, C. ; Goolaup, S. ; Lew, W.</i>	
CG-09 - COMBINED FORC AND X-RAY MICROSCOPY STUDY OF MAGNETISATION REVERSAL IN ANTIDOT LATTICES	388
<i>Grafe, J. ; Haering, F. ; Stahl, C. ; Weigand, M. ; Skripnik, M. ; Nowak, U. ; Ziemann, P. ; Wiedwald, U. ; Schutz, G. ; Goering, E.</i>	
CG-11 - MAGNETIC AND MAGNETOTRANSPORT PROPERTIES OF BI-COMPONENT ARRAYS OF MAGNETIC DOTS BY SELF-ASSEMBLING OF POLYSTYRENE NANOSPHERES.....	389
<i>Tiberto, P. ; Barrera, G. ; Celegato, F. ; Coisson, M. ; Vinai, F.</i>	
CH-01 - EFFECT OF CONTROL STRATEGIES ON THE TWO TORQUE-PRODUCING MECHANISMS IN HIGH-SPEED PMSMS	390
<i>Hannon, B. ; Sergeant, P. ; Dupre, L.</i>	
CH-02 - ROTOR DESIGN OF A 7 MW INTERIOR PERMANENT MAGNET WIND GENERATOR CONSIDERING DEMAGNETIZATION	391
<i>Chen, H. ; Qu, R. ; Li, J.</i>	
CH-04 - DEVELOPMENT OF A NOVEL AXIAL-FLUX CLAW POLE MACHINE WITH SOFT MAGNETIC COMPOSITE CORE	392
<i>Liu, C. ; Zhu, J. ; Wang, Y. ; Lei, G. ; Guo, Y. ; Liu, X.</i>	
CH-05 - RESEARCH ON ROTOR ECCENTRICITY COMPENSATION CONTROL FOR BEARINGLESS SURFACE-MOUNTED PERMANENT-MAGNET MOTORS BASED ON AN EXACT ANALYTICAL METHOD.....	393
<i>Dai, J. ; Zhou, X. ; Qiu, Z.</i>	

CH-06 - ANALYTICAL MODEL OF ELECTROMAGNETIC VIBRATION OF SALIENT PERMANENT MAGNET MOTORS WITH TIME HARMONICS	394
<i>Zhang, L. ; Gao, C.</i>	
CH-07 - OPTIMIZATION OF STATOR POLE ARRANGEMENT FOR 3-DOF SPHERICAL ACTUATOR USING GENETIC ALGORITHM	395
<i>Nishiura, Y. ; Hirata, K. ; Oya, K.</i>	
CH-08 - TORQUE PULSATION MINIMIZATION IN SPOKE-TYPE INTERIOR PERMANENT MAGNET MOTORS WITH SKEWING AND SINUSOIDAL PERMANENT MAGNET CONFIGURATIONS.....	396
<i>Zhao, W. ; Lipo, T.A. ; Kwon, B.</i>	
CH-09 - BRIDGE AND ROTOR INDUCTANCES OF CLOSED SLOTS INDUCTION MOTOR.....	397
<i>Matsushita, M. ; Mizuno, S. ; Ishibashi, F.</i>	
CH-10 - OPTIMAL DESIGN OF PREMIUM EFFICIENCY CAGE INDUCTION MOTORS (IE3 LEVEL) WITH NON-SKEWED ASYMMETRICAL ROTOR BARS BASED ON FEA	398
<i>Zhao, H. ; Wang, S. ; Zhang, D. ; Liu, X.</i>	
CH-11 - DESIGN OF RADIAL AND AXIAL FLUX INDUCTION MACHINE-AN ANALYTICAL APPROACH.....	399
<i>Benet, B.Paul</i>	
CH-12 - COMPARISON OF CLAW POLE MACHINES WITH DIFFERENT ROTOR STRUCTURE.....	400
<i>Liu, C. ; Zhu, J. ; Wang, Y. ; Lei, G. ; Guo, Y. ; Liu, X.</i>	
CI-02 - NONLINEAR DYNAMIC CHARACTERISTICS OF GIANT MAGNETOSTRICTIVE-PIEZOELECTRIC VIBRATION ENERGY HARVESTER SUBJECTED TO STOCHASTIC EXCITATION.....	401
<i>Zhu, Z. ; Zhang, W. ; Xu, J.</i>	
CI-03 - THREE-PORT HIGH-FREQUENCY TRANSFORMER BASED CURRENT-SOURCE ELECTRIC DRIVE SYSTEM FOR HYBRID ELECTRIC VEHICLES	402
<i>Wang, Z. ; Chu, K. ; Liu, B. ; Cheng, M.</i>	
CI-04 - A FREQUENCY UP-CONVERTED MAGNETOSTRICTIVE TRANSDUCER FOR HARVESTING ENERGY FROM FINGER TAPPING.....	403
<i>Yang, Z. ; Tan, Y. ; Zu, J.</i>	
CI-05 - AN ADAPTIVE HIGH-PRECISION TRACKING CONTROLLER FOR THE COUPLED SWITCHED RELUCTANCE TWO-FINGER GRIPPER.....	404
<i>Fan, Y. ; Pan, J.</i>	
CI-06 - A NEW IMPLEMENTATION METHOD OF LOW STIFFNESS FOR MAGNETIC LEVITATION GRAVITY COMPENSATOR	405
<i>Zhang, H. ; Kou, B. ; Jin, Y. ; Zhang, H.</i>	
CI-07 - GENERATION OF MAGNETIC PROPULSION FORCE USING WIRELESS POWER TRANSFER COIL	406
<i>Kim, D. ; Park, J. ; Park, H. ; Ahn, S.</i>	
CI-08 - DEVELOPMENT AND EXPERIMENTAL TEST OF HYBRID MAGNETIC BEARING FOR RING-TYPE FLYWHEEL	407
<i>Toh, C. ; Chen, S.</i>	
CI-09 - A 3-D ANALYTICAL MODEL FOR A DOUBLE HALBACH LINEAR ARRAY ELECTRODYNAMIC SUSPENSION SYSTEM	408
<i>Chen, Y. ; Paul, S. ; Bird, J. ; Zhang, K.</i>	
CI-10 - MULTIDISCIPLINARY DESIGN ANALYSIS FOR PM MOTORS WITH SOFT MAGNETIC COMPOSITE CORES.....	409
<i>Lei, G. ; Liu, C. ; Zhu, J. ; Guo, Y.</i>	
CI-11 - COUPLED ELECTROMAGNETIC AND THERMAL ANALYSIS OF AN AXIAL FLUX PM MACHINE	410
<i>Vansompel, H. ; Hemeida, A. ; Rasekh, A. ; Sergeant, P. ; Vierendeels, J.</i>	
CI-12 - RESEARCH ON FAST CALCULATION OF DYNAMIC PROCESS WITH THERMAL EFFECTS IN ELECTROMAGNETIC DEVICE BASED ON SEMI-ANALYTICAL MODELING	411
<i>Yang, W. ; Liu, P. ; Zhai, G.</i>	
CP-02 - THIN LAYER OF MGO AS SEED LAYER USED IN MGO/CO₂FESI HEUSLER ALLOY TUNNEL JUNCTIONS	412
<i>Chen, P.J. ; Shull, R.</i>	
CP-03 - FABRICATION AND CHARACTERIZATION OF CO₂MNSI THIN FILM WITH AN EXTREME LOW DAMPING CONSTANT	413
<i>Qiao, S. ; Zhang, J. ; Hao, R. ; Zhaong, H. ; Kang, Y. ; Kang, S.</i>	
CP-04 - ANISOTROPIC MAGNETORESISTANCE EFFECT IN CO₂(FE-MN)(AL-SI) HEUSLER ALLOY THIN FILMS	414
<i>Yako, H. ; Kubota, T. ; Takanashi, K.</i>	
CP-05 - IMPROVEMENT OF THE HALF-METALLIC STABILITY OF CO₂FEAL HEUSLER ALLOYS BY GETE-DOPING.....	415
<i>Huang, T. ; Cheng, X. ; Guan, X. ; Miao, X.</i>	
CP-06 - CATION EFFECT ON THE MAGNETIC AND MAGNETOTRANSPORT PROPERTIES OF COXFE₃-XO₄ FILMS: AN EXPERIMENTAL AND FIRST-PRINCIPLES STUDY	416
<i>Jin, C. ; Tang, M. ; Bai, H.</i>	
CP-07 - ELECTRON SPIN RESONANCE STUDY ON ROOM-TEMPERATURE FERROMAGNETIC LA_{0.9}SR_{0.1}MNO₃ NANO-PARTICLES	417
<i>Chen, Y. ; Liang, K. ; Chang, C. ; Lin, J.</i>	
CP-08 - SITE PREFERENCE AND MAGNETIC PROPERTIES OF MN₂COGA HEUSLER ALLOY	418
<i>Umetsu, R.Y. ; Saito, K. ; Ono, K. ; Ishigaki, T. ; Minakuchi, T. ; Nagasako, M. ; Kainuma, R.</i>	

CP-10 - MAGNETIC AND TRANSPORT PROPERTIES OF ANTIPEROVSKITE NITRIDE CO₃FeN FILMS	419
<i>Kawai, S. ; Ando, H. ; Sakakibara, H. ; Kuroki, Y. ; Hajiri, T. ; Ueda, K. ; Asano, H.</i>	
CP-11 - ESR STUDY OF STRAIN EFFECT ON PHASE SEPARATION IN PR_{0.7}(CA_{0.6}SR_{0.4})_{0.3}MNO₃ THIN FILMS	420
<i>Ma, Q. ; Zhao, Y. ; Hu, F. ; Sun, J. ; Shen, B. ; Sun, Y.</i>	
CP-12 - ELECTRON SPIN RESONANCE AND MAGNETIZATION STUDIES OF BI RICH LA-MANGANITES	421
<i>Vijayan, D. ; Ade, R. ; Kurian, J. ; Singh, R.</i>	
CP-13 - INFLUENCE OF LATTICE STRAIN ON PHASE SEPARATION AND PERCOLATIVE BEHAVIORS IN LA_{0.325}PR_{0.3}CA_{0.375}MNO₃ THIN FILMS	422
<i>Zhao, Y. ; Hu, F. ; Wang, J. ; Kuang, H. ; Liu, Y. ; Wu, R. ; Sun, J. ; Shen, B.</i>	
CP-14 - EFFECT OF INTERLAYER-INDUCED ASYMMETRICAL STRESS ON MAGNETOTRANSPORT PROPERTIES OF EPITAXIAL [PR_{0.7}SR_{0.3}MNO₃/LA_{0.5}CA_{0.5}MNO₃]₂₀ SUPERLATTICE	423
<i>Wang, H. ; Liu, H. ; Cao, M. ; Wang, X. ; Tan, W. ; Wang, X. ; Xu, F. ; Jia, Q. ; Gao, J.</i>	
CQ-01 - RECONFIGURABLE DYNAMIC PROPERTIES USING A POLYGONAL PY DOT	424
<i>Yakata, S. ; Cui, X. ; Kimura, T.</i>	
CQ-02 - OBSERVATION OF ASYMMETRY IN ANOMALOUS HALL EFFECT MEASUREMENTS OF MAGNETIC DOTS	425
<i>Griffiths, R.A. ; Nutter, P.W.</i>	
CQ-03 - STUDY ON THE MAGNETIZATION DYNAMICS OF NI-Fe DOT ARRAYS ESTIMATED BY THE CPW-FMR MEASUREMENT METHOD	426
<i>Endo, Y. ; Shimada, Y. ; Yamaguchi, M.</i>	
CQ-04 - INDIRECT REVERSAL OF VORTEX CORE POLARITY IN MAGNETICALLY DYNAMIC COUPLED DISKS	427
<i>Fior, G. ; Novais, E.R. ; Sinnecker, J. ; Guimaraes, A P ; Garcia, F.</i>	
CQ-05 - FABRICATION OF LATERALLY-CONFIGURED RESISTIVE SWITCHING DEVICE WITH SPIN-POLARIZED NANO-GAP ELECTRODES	428
<i>Kawakita, M. ; Okabe, K. ; Yakata, S. ; Kimura, T.</i>	
CQ-06 - EFFECTS OF DZYALOSHINSKII-MORIYA INTERACTION ON MAGNETIC VORTEX GYRATION	429
<i>Luo, Y. ; Zhou, C. ; Wu, Y.</i>	
CQ-07 - MAGNETIC PROPERTIES AND MICROSTRUCTURE INVESTIGATION OF FENI FILMS WITH STEP-HEIGHT BY NANO-MOKE	430
<i>Cao, D. ; Jin, C. ; Pan, L. ; Wang, J. ; Liu, Q.</i>	
CQ-08 - THE EFFECT OF THE CUBIC ANISOTROPY ON THE ANGULAR DEPENDENCE OF THE EXCHANGE BIAS	431
<i>Bai, Y. ; Xu, X.</i>	
CQ-11 - THICKNESS-DEPENDENT MAGNETIC PROPERTIES OF PATTERNED FECOBSI AMORPHOUS THIN FILMS ON SILICON SUBSTRATE	432
<i>Zhu, W. ; Zhang, L. ; Zheng, H. ; Wang, X. ; Bi, M. ; Li, M. ; Xie, J. ; Deng, L.</i>	
CQ-13 - PERIODICALLY ORDERED YTTRIUM IRON GARNET NANODOTS ARRAYS PREPARED BY AAO TEMPLATES ON GA₃GD₅O₁₂ SUBSTRATES	433
<i>Zheng, H. ; Han, M.</i>	
CQ-14 - MICROMAGNETIC SIMULATION ON THE INTER-ELEMENTS COUPLING OF HIGH-DENSITY PATTERNED FILM	434
<i>Sun, L. ; Zhai, Y. ; Niu, D. ; Xu, Y. ; Zhai, H.</i>	
CQ-15 - CONTROL OF THE MAGNETIC STRUCTURE OF CO/PD THIN FILMS BY DIRECT LASER INTERFERENCE PATTERNING	435
<i>Stark, M. ; Schlickeiser, F. ; Nissen, D. ; Hebler, B. ; Graus, P. ; Hinzke, D. ; Albrecht, M. ; Leiderer, P. ; Fonin, M. ; Boneberg, J.</i>	
CQ-16 - RESONANCE FREQUENCY OF FERROMAGNETIC THIN FILM CONTROLLED BY RECTANGLE ANTIDOT ARRAYS	436
<i>Luo, X.J. ; Zhou, P. ; Wang, X. ; Zhang, N. ; Deng, L.</i>	
CR-03 - LARGE ELECTROMAGNETIC WAVE ABSORBING BANDWIDTH OF COMPOSITES CONTAINING FE₃O₄ NANO RIBBONS	437
<i>Wu, Y. ; Han, M. ; Deng, L.</i>	
CR-04 - SELECTIVE BEHAVIOUR OF SPIN WAVE PROPAGATION IN ASYMMETRICALLY MODULATED FERROMAGNETIC NANOWIRES	438
<i>Piao, H. ; Shim, J. ; Yang, M. ; Pan, L. ; Kim, D.</i>	
CR-07 - CONTROLLABLE ONE DIMENSIONAL FEPT NANOMATERIALS SYNTHESIZED BY CHEMICAL METHOD	439
<i>Pei, W. ; Zhang, Y. ; Wu, C. ; Wang, Q.</i>	
CR-10 - INTRAWIRE MAGNETIC INTERACTIONS IN ELECTRODEPOSITED CO/CU AND CO/AU MULTILAYER NANOWIRES	440
<i>Dasagiri, T. ; Yu, H.</i>	
CR-13 - FABRICATION, STRUCTURAL AND MAGNETIC PROPERTIES OF ELECTRODEPOSITED FE₈₀PT₂₀ NANOWIRES AND NANOTUBES	441
<i>Khan, U. ; Li, W. ; Ali, S.S. ; Javed, K. ; Riaz, S. ; Han, X.</i>	
CR-14 - THE OXYGEN VACANCIES CORRELATED FERROMAGNETISM IN TRANSITION METAL-DOPED ZNO NANOWIRES	442
<i>Zhang, Y. ; Cao, E. ; Shi, C. ; Hu, J.</i>	

CS-01 - INFLUENCES OF LI2O-B2O3-ZNO GLASS ADDITION ON MICROSTRUCTURAL AND MAGNETIC PROPERTIES OF LIZNTI-FERRITES.....	443
<i>Xie, F. ; Jia, L. ; Zheng, Z. ; Zhang, H.</i>	
CS-06 - HYDROTHERMAL SYNTHESIS AND MAGNETIC PROPERTIES OF HEXAGONAL SR3CO2FE24O41 PARTICLES.....	444
<i>Jia, L. ; Wen, X. ; Zhang, H.</i>	
CS-07 - RESONANT MAGNETOELECTRIC EFFECT IN WINGLIKE MAGNETOELECTRIC COMPOSITES OF FE-BASED NANOCRYSTALLINE FECUNBSIB ALLOY AND PIEZOELECTRIC CERAMIC PB(ZR, TIO)3 WITH MIDDLE BONDING	445
<i>Wang, D. ; Li, P. ; Wen, Y. ; Yang, C. ; Zhang, F. ; Yang, A. ; Zhang, J.</i>	
CS-10 - HIGH MAGNETIC LOSS MG-CU FERRITES FOR ULTRA-HIGH FREQUENCY EMI SUPPRESSION APPLICATIONS.....	446
<i>Li, J. ; Wang, X. ; Song, K. ; Li, Q. ; Gong, R. ; Su, Z. ; Chen, Y. ; Harris, V.G.</i>	
CS-11 - ENHANCEMENT OF ABSORPTION BANDWIDTH OF MAGNETIC MICROWAVE ABSORBERS VIA EMBEDDING METAMATERIALS	447
<i>Wang, W. ; Wang, Y. ; Cheng, Y. ; Cheng, D. ; Liu, Y. ; Nie, Y. ; Wu, M. ; Gong, R.</i>	
CS-12 - MAGNETIC, ELECTRIC AND MAGNETOELECTRIC PROPERTIES OF ZIRCONIUM DOPED Y3FE5O12 FERRITE CERAMICS	448
<i>Chen, F. ; Zhang, Z. ; Wang, X. ; Feng, Z. ; Chen, Y. ; Harris, V.G.</i>	
CS-13 - ROTATIONAL ALIGNMENT OF MAGNETIC MICRODISKS IN COMPOSITES FOR HIGH FREQUENCY APPLICATIONS	449
<i>Song, H. ; Tan, M. ; Walker, T.W. ; Jander, A. ; Dhagat, P.</i>	
CS-14 - ULTRATHIN PLANAR METASURFACE FOR CONTROLLING ELECTROMAGNETIC WAVE WITH BROAD BANDWIDTH.....	450
<i>Wu, Q. ; Ding, X. ; Yu, H. ; Zhang, K.</i>	
CT-01 - A NOVEL HIGH-SENSITIVITY CARDIAC MULTI-BIOMARKERS DETECTING SYSTEM BASED ON MICROFLUIDIC CHIP AND GMR SENSOR.....	451
<i>Huo, W. ; Gao, Y. ; Zhang, L. ; Shi, S. ; Gao, Y.</i>	
CT-02 - MAGNETO-IMPEDANCE SENSOR BASED ON TAD FOR INTEGRATION.....	452
<i>Tajima, S. ; Wu, P. ; Okuda, Y. ; Watanabe, T. ; Uchiyama, T.</i>	
CT-03 - ELIMINATION OF HYSTERESIS EFFECT IN SUPERPARAMAGNETIC NANOPARTICLE DETECTION BY GMR SENSORS FOR BIOSENSING.....	453
<i>Li, L. ; Lo, W. ; Leung, C. ; Ng, S. ; Pong, P.</i>	
CT-04 - DESIGN AND OPTIMIZATION OF MAGNETIC RING FOR MTJ BASED CURRENT SENSORS APPLIED IN THE SMART GRID	454
<i>Ouyang, Y. ; He, J. ; Hu, J. ; Zhao, G. ; Wang, Z. ; Wang, S.X.</i>	
CT-09 - FLUXGATE GRADIOMETER FOR MAGNETIC NANOPARTICLE MAGNETORELAXOMETRY IN UNSHIELDED ENVIRONMENT	455
<i>Elrefai, A.L. ; Sasada, I. ; Yoshida, T.</i>	
CT-10 - A NEW INDUCTIVE SENSOR FOR ONLINE HEALTH MONITORING OF MECHANICAL TRANSMISSION SYSTEMS	456
<i>Wang, C. ; Liu, X. ; Chen, Z.</i>	
CT-11 - A NOVEL MEMS-BASED 13.56 MHZ MICRO ANTENNA FOR RFID APPLICATION.....	457
<i>Qu, B. ; Liu, H. ; Ye, Q. ; Geng, Y. ; Ren, T.</i>	
CT-12 - DETERMINATION OF AFFINITY AND KINETIC CONSTANTS OF THE BIOTIN-STREPTAVIDIN COMPLEX USING GMR MICROFLUIDIC BIOSENSOR	458
<i>Zhang, L. ; Gao, Y. ; Huo, W. ; Shi, S. ; Gao, Y.</i>	
CT-13 - TENSILE STRESS MEASUREMENT OF TENDON BY MEANS OF CURRENT APPLIED TO THE TENDON	459
<i>Son, D. ; Kang, S. ; Joh, C. ; Lee, J.</i>	
CT-14 - MAGNETIC FIELD SENSORS BASED ON GALFENOL WITH VARIABLE MEASURABLE RANGES	460
<i>Caponero, M.A. ; Cianfarani, C. ; Davino, D. ; Polimadei, A. ; Visone, C.</i>	
CU-01 - HIGH-PRESSURE SYNTHESIS AND SUPERCONDUCTIVITY OF THE YB-SUBSTITUTED BA8-XYBXSI46 CLATHRATES	461
<i>Liu, L. ; Song, B. ; Ma, H. ; Ma, X. ; Li, Y.</i>	
CU-02 - HIGH PERFORMANCE ELECTRICALLY TUNABLE RF PHASE SHIFTER WITH APPLICATION OF PZT AND NANO-PATTERNED PERMALLOY THIN FILMS.....	462
<i>Wang, T. ; Peng, Y. ; Jiang, W. ; Xia, T. ; Wang, G.</i>	
CU-03 - TUNABLE COMPACT LOW NOISE AMPLIFIER WITH PERMALLOY THIN FILM ENABLED SLOW WAVE TRANSMISSION LINES	463
<i>Xia, T. ; Candra, P. ; Wang, G.</i>	
CU-04 - ROTATING MAGNETIC FIELD INDUCED MECHANICAL STRESS AND CELL DEATH ON MAGNETICALLY LABELED CELL	464
<i>Huang, C. ; Wei, Z.</i>	
CU-07 - MAGNETIC PINNING EFFECT IN YBA2CU3O7-D/ND0.35SR0.65MNO3 BILAYER.....	465
<i>Cheng, S. ; Lin, J. ; Chuang, T.</i>	
CU-08 - LOW-MAGNETIC-THRESHOLD ACOUSTIC SWITCHING UTILIZING MAGNETOELASTIC FENI/BRASS PHONONIC CRYSTAL PLATE.....	466
<i>Yang, A. ; Li, P. ; Wen, Y. ; Yang, C. ; Wang, D. ; Zhang, F. ; Zhang, J.</i>	

CU-09 - STUDY OF METAMAGNETISM IN SM(NI_{0.5}FE_{0.4}CU_{0.1})₇.....	467
<i>Yang, W. ; Du, Q. ; Chen, G. ; Du, H. ; Liu, S. ; Wang, C. ; Han, J. ; Zhang, Y. ; Yang, Y. ; Yang, J.</i>	
CU-11 - NMR STUDY OF ELECTRONIC PROPERTIES IN MO₇RE₁₃B AND W₇RE₁₃B SUPERCONDUCTORS	468
<i>Tseng, C. ; Liu, H. ; Lue, C.</i>	
CU-13 - MICROSCOPIC MECHANISM AND CALCULATION OF ELECTROMAGNETICALLY INDUCED ACOUSTIC EMISSION.....	469
<i>Cai, Z. ; Liu, S. ; Zhang, C. ; Yang, Q.</i>	
CV-01 - 3D MULTIFIELDS FEM COMPUTATION OF CROSSED TRAVELING WAVE INDUCTION HEATING SYSTEM.....	470
<i>Lingling, P. ; Wang, Y. ; Pan, R.</i>	
CV-02 - CURRENT DISTRIBUTION ANALYSIS FOR A MULTILAYER HIGH-TC SUPERCONDUCTING CABLE CONSIDERING MAGNETIC HYSTERESIS	471
<i>Xu, W. ; Duan, N. ; Wang, S. ; Zhu, J. ; Guo, Y.</i>	
CV-03 - EFFICIENT DEPERMING PROTOCOLS BASED ON THE MAGNETIC PROPERTIES IN DEMAGNETIZATION PROCESS	472
<i>Ju, H. ; Im, S. ; Lee, J. ; Park, G.</i>	
CV-04 - LOOP ORIENTATION AND PREISACH MODELING IN HYSTERESIS SYSTEMS.....	473
<i>Zamboni, W. ; Visone, C.</i>	
CV-05 - ANALYSIS OF DIFFERENT HYSTERESIS MODELS WHEN CONSIDERING MAGNETIZATION DYNAMICS IN NON-ORIENTED SOFT MAGNETIC STEEL SHEET	474
<i>Petrun, M. ; Steentjes, S. ; Hameyer, K. ; Dolinar, D.</i>	
CV-08 - MAGNETIZATION REVERSAL MECHANISM IN NOTCHED ELLIPTIC CO RINGS	475
<i>Xu, Z. ; Yin, Y. ; Xu, F.</i>	
CV-09 - A FAST METHOD FOR CALCULATING MAGNETIC HYSTERESIS LOOPS.....	476
<i>Stockem, I. ; Schroder, C.</i>	
CV-10 - A PRACTICAL METHOD FOR CHARACTERIZATION OF MAGNETIC MATERIALS.....	477
<i>Righi, L.A. ; Eckert, P.R. ; Filho, A.Flores</i>	
CV-14 - CONFINEMENT OF MAGNETIC VORTEX AND DOMAIN WALLS IN DIPOLAR COUPLED CONCENTRIC NANOCYLINDERS	478
<i>Dantas, A.L. ; Nunes, M.S. ; Souza, C.M. ; Queiroz, I.D. ; Reboucas, G.O. ; Carrico, A.S.</i>	
CV-15 - OSCILLATORY TUNNELING MAGNETORESISTANCE IN FE₃O₄/GAAS/FE₃O₄ JUNCTION.....	479
<i>Huang, Z. ; Yue, J. ; Wang, J. ; Zhai, Y. ; Xu, Y. ; Wang, B.</i>	
CV-16 - QUATERNARY MEMORY BASED ON MAGNETIC SKYRMION.....	480
<i>Zhang, S. ; Gan, W. ; Kerk, I. ; Kwon, J. ; Luo, F. ; Wang, J. ; Liu, Q. ; Lew, W.</i>	
CW-01 - ANALYSIS OF MULTILAYERED CO₂RNB FILM ON-CHIP NOISE SUPPRESSOR AS A FUNCTION OF RESISTIVITY AND PERMEABILITY	481
<i>Ma, J. ; Kijima, H. ; Yamaguchi, M.</i>	
CW-02 - ZERO-BIAS-FIELD SPIN WAVE EXCITATIONS IN TRAPEZOIDAL FERROMAGNETIC STRIPS.....	482
<i>Bi, M. ; Lu, H. ; Wang, X. ; Zhang, L. ; Deng, L. ; Xie, J.</i>	
CW-03 - EXCITATIONS OF NONLINEAR FERROMAGNETIC RESONANCE AND STANDING SPIN WAVE USING INHOMOGENOUS HIGH-POWER RF MAGNETIC FIELD	483
<i>Yokotani, Y. ; Yamanoi, K. ; Yakata, S. ; Kimura, T.</i>	
CW-04 - FERROMAGNETIC RESONANCE MODES OF NANOMAGNETIC LOGIC ELEMENTS.....	484
<i>Hu, X. ; Dey, H.S. ; Liebing, N. ; Csaba, G. ; Orlov, A. ; Bernstein, G.H. ; Porod, W. ; Sievers, S. ; Schumacher, H.W.</i>	
CW-05 - FERROMAGNETIC RESONANCE STUDY OF SI/NIO/NIFE FILMS WITH DIFFERENT ORIENTATIONS OF NIO BUFFER LAYERS	485
<i>Sun, K. ; Yang, Y. ; Liu, Y. ; Yu, Z. ; Zeng, Y. ; Tong, W. ; Jiang, X. ; Lan, Z. ; Guo, R. ; Wu, C.</i>	
CW-07 - X-RAY ABSORPTION SPECTRA AND SELF-BIAS FERROMAGNETIC RESONANCE OF FECOB FILMS PREPARED BY COMPOSITION GRADIENT SPUTTERING	486
<i>Xue, Q. ; Zhang, L. ; Li, J. ; Zhang, Y. ; Wang, C. ; Li, Q. ; Xu, J. ; Li, S.</i>	
CW-08 - DYNAMICAL SPIN INJECTION INDUCED BY FMR HEATING EFFECT IN COFEAL STRIP	487
<i>Yamanoi, K. ; Yokotani, Y. ; Yakata, S. ; Kimura, T.</i>	
CW-09 - TUNING OF THE MICROWAVE MAGNETIZATION DYNAMICS IN FE₆₅CO₃₅-BASED THIN FILMS BY DY DOPING	488
<i>Xu, Z. ; Yin, Y. ; Xu, F.</i>	
CW-13 - STATIC AND HIGH FREQUENCY MAGNETIC PROPERTIES OF FEGA THIN FILMS DEPOSITED ON CONVEX FLEXIBLE SUBSTRATES.....	489
<i>Yu, Y. ; Zhan, Q. ; Wei, J. ; Wang, J. ; Guohong, D. ; Zhenghu, Z. ; Xiaoshan, Z. ; Liu, Y. ; Yang, H. ; Zhang, Y. ; Xie, S. ; Wang, B. ; Li, R.</i>	
CW-14 - INFLUENCE OF CU UNDERLAYER ON THE HIGH-FREQUENCY MAGNETIC PROPERTIES OF FECOSIO THIN FILMS	490
<i>Lu, G. ; Miao, X. ; Cheng, W. ; Huang, X. ; Yang, L. ; Pan, L.</i>	
CX-01 - NUMERICAL MODEL FOR INFLUENCE OF UNBANACED MAGNETIC PULL ON THE CRITICAL SPEED OF MOTOR-DRIVEN SPINDLE	491
<i>Chen, J. ; Wang, Z. ; Hu, H. ; Bai, Y.</i>	
CX-03 - DESIGN AND OPTIMIZATION OF A HIGH-BANDWIDTH LOW-SPEED HIGH-TORQUE PERMANENT MAGNET SYNCHRONOUS MOTOR	492
<i>Chen, H. ; Liu, X. ; Zhao, J.</i>	

CX-04 - COMPARATIVE STUDY OF NOVEL VARIABLE-FLUX MEMORY MACHINES HAVING STATOR PERMANENT MAGNET TOPOLOGIES	493
<i>Yang, H. ; Zhu, Z. ; Lin, H. ; Fang, S. ; Huang, Y.</i>	
CX-05 - DESIGN OF TORQUE ACTUATOR IN HYBRID TYPE MULTI-DOF SYSTEM CONSIDERING MAGNETIC SATURATION.....	494
<i>Hong, H. ; Park, H. ; Park, M. ; Won, S. ; Lee, J.</i>	
CX-06 - MOTION ANALYSIS AND CONTROL OF THE HYBRID MULTI-DOF MOTOR WITH TAKING ACCOUNT ON DESIGN OF MOTOR SHAPE.....	495
<i>Park, H. ; Hong, H. ; Oh, Y. ; Lee, J. ; Lee, J.</i>	
CX-09 - A TWO DEGREE OF FREEDOM SWITCHED RELUCTANCE BASED TRACKER FOR CONCENTRATED PHOTOVOLTAIC POWER GENERATION SYSTEM	496
<i>Li, S. ; Cheng, K.</i>	
CX-10 - DESIGN AND MODEL-FREE PREDICTIVE CURRENT CONTROL FOR DUAL AIR-GAP TRANSVERSE-FLUX SENSORLESS PERMANENT MAGNET BRUSHLESS DIRECT CURRENT MOTORS WITH LOW RARE EARTH MATERIAL	497
<i>Yu, H. ; Wang, Z. ; Chuang, H. ; Lin, C.</i>	
CX-11 - ESTIMATION OF MAXIMUM ANGULAR OPERATION RANGE FOR PERMANENT-MAGNET SLOTTED LIMITED-ANGLE TORQUE MOTOR	498
<i>Yu, G. ; Zou, J. ; Xu, Y. ; Li, J.</i>	
CX-12 - OPTIMUM DESIGN OF PMA-SYNRM FOR ZERO INDUCTANCE OF Q-AXIS AND EXPERIMENTAL VERIFICATION	499
<i>Lee, J. ; Kim, Y. ; Kim, D.</i>	
CX-13 - MAGNETIC ACTUATOR CAPABLE OF INSPECTION IN A COMPLEX PIPE BY PLURAL ELECTROMAGNETIC VIBRATION COMPONENTS.....	500
<i>Yaguchi, H.</i>	
CX-16 - DESIGN AND IMPLEMENTATION OF A THREE-DEGREES-OF-FREEDOM DEFLECTION TYPE PM MOTOR	501
<i>Li, Z. ; Lun, Q. ; Xing, D. ; Gao, P.</i>	
CY-01 - ANALYTICAL PREDICTION OF ARMATURE REACTION FIELD DISTRIBUTION IN PMAC MACHINES WITH DIFFERENT WINDING CONFIGURATION	502
<i>Li, L. ; Yu, J. ; Cao, J.</i>	
CY-02 - DETECTION OF ROTOR ECCENTRICITY IN WOUND ROTOR INDUCTION MACHINES USING POLE-SPECIFIC SEARCH COILS.....	503
<i>Dorrell, D.G. ; Salah, A.</i>	
CY-03 - PARAMETER OPTIMIZATION AND EXPERIMENTAL RESEARCH FOR A NOVEL AXIAL HYBRID MAGNETIC BEARING.....	504
<i>Chen, S. ; Zhu, H.</i>	
CY-04 - MODELING OF RADIAL FORCES DUE TO ECCENTRICITY IN A PERMANENT-MAGNET SYNCHRONOUS MOTOR USING PERTURBATION THEORY	505
<i>Noh, M.D. ; Kim, D. ; Kim, M. ; Park, Y.</i>	
CY-05 - DESIGN METHOD FOR IMPROVING THE POWER DENSITY APPLIED TO FAN-SHAPE OF NON-RARE EARTH SPOKE-TYPE PMSM	506
<i>Ham, S. ; Cho, S. ; Jeong, T. ; Hong, H. ; Park, M.</i>	
CY-06 - A NOVEL SEQUENTIAL STRATEGY FOR MULTIVARIABLE OPTIMIZATION IN DESIGNING OF PM MOTOR	507
<i>Liu, X. ; Fu, W.</i>	
CY-08 - ACTUATOR DESIGN BASED ON FLUX PATH SWITCHING FOR HIGH ENERGY UTILIZATION	508
<i>Huang, P. ; Tsai, M.</i>	
CY-09 - A STUDY ON THE INDUCTANCE CALCULATION OF FLUX CONCENTRATING PERMANENT MAGNET MOTOR THROUGH NON-LINEAR MAGNETIC EQUIVALENT CIRCUIT.....	509
<i>Lee, K. ; Hong, H. ; Oh, Y. ; Park, M.</i>	
CY-10 - COMPARATIVE ANALYSIS OF EDDY CURRENT LOSS IN PERMANENT MAGNET SYNCHRONOUS GENERATOR CONSIDERING PM SHAPE AND SKEW EFFECT FOR WIND POWER GENERATION.....	510
<i>Koo, M. ; Choi, J. ; Jeong, J. ; Kim, J. ; Park, Y.</i>	
CY-12 - MODELING AND ANALYSIS OF THE MAGNETIC FIELD OF A SURFACE-INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR.....	511
<i>Si, M. ; Yang, X. ; Zhao, S. ; Si, J. ; Cao, W.</i>	
CY-13 - DESIGN AND ANALYSIS OF A NOVEL BRUSHLESS WOUND ROTOR SYNCHRONOUS MACHINE	512
<i>Ali, Q. ; Lipo, T.A. ; Kwon, B.</i>	
CY-14 - DESIGN OF UNIDIRECTIONAL MAGNETOSTRICTIVE ACTUATOR WITHOUT PERMANENT MAGNET	513
<i>Park, Y. ; Oh, O. ; Noh, M.D.</i>	
CY-15 - EFFICIENT ELECTROMAGNETIC ENERGY HARVESTING DEVICES.....	514
<i>Tibu, M. ; Chiriac, H. ; Ovari, T. ; Lupu, N.</i>	
CY-16 - COST-EFFECTIVE DESIGN FOR HIGH EFFICIENCY SYNCHRONOUS RELUCTANCE MOTOR.....	515
<i>Hsieh, M. ; Tsai, I. ; Weng, Y.</i>	

DA-02 - LOW-CURRENT SPIN TRANSFER TORQUE MRAM.....	516
<i>Worledge, D. ; Annunziata, A.J. ; Brown, S. ; Chen, W. ; Harms, J. ; Hu, G. ; Kim, Y. ; Kothandaraman, C. ; Lauer, G. ; Lee, J. ; Liu, L. ; Murthy, S. ; Nowak, J. ; O'Sullivan, E. ; Park, J. ; Robertazzi, R. ; Sun, J.Z. ; Trouilloud, P.</i>	
DA-03 - PERPENDICULAR STT-MRAM FOR HIGH SPEED NON-VOLATILE EMBEDDED MEMORY APPLICATION	517
<i>Wang, P. ; Jan, G. ; Thomas, L. ; Lee, Y. ; Liu, H. ; Zhu, J. ; Le, S. ; Tong, R. ; Pi, K. ; Shen, D. ; He, R. ; Haq, J. ; Teng, J. ; Lam, V. ; Wang, Y. ; Zhong, T. ; Torng, T.</i>	
DA-04 - ANTIFERROMAGNETIC SPIN-ORBITRONICS.....	518
<i>Manchon, A. ; Saidaoui, H. ; Ghosh, S.</i>	
DB-01 - SPIN-WAVE DARK SOLITON PAIRS IN MAGNETIC THIN FILMS	519
<i>Wang, Z. ; Cherkasskii, M. ; Kalinikos, B. ; Wu, M.</i>	
DB-02 - EXCITATION OF PROPAGATING SPIN WAVES IN AN IN-PLANE MAGNETIZED FERROMAGNETIC STRIP BY VOLTAGE-CONTROLLED MAGNETIC ANISOTROPY	520
<i>Verba, R.V. ; Tyberkevych, V. ; Slavin, A.</i>	
DB-03 - FIELD-INDUCED WAVEGUIDES FOR SPIN-TORQUE MAGNONICS	521
<i>Urazhdin, S. ; Demidov, V.E. ; Zholud, A. ; Ulrichs, H. ; Demokritov, S.O.</i>	
DB-04 - PARAMETRIC AMPLIFICATION OF SPIN WAVES USING BULK ACOUSTIC WAVES	522
<i>Chowdhury, P. ; Dhagat, P. ; Jander, A.</i>	
DB-05 - FIELD-CONTROLLED PHASE-RECTIFIED MAGNONIC MULTIPLEXOR	523
<i>Davies, C.S. ; Sadovnikov, A. ; Grishin, S.V. ; Sharaevsky, Y.P. ; Nikitov, S.A. ; Kruglyak, V.</i>	
DB-06 - CURRENT INDUCED MAGNETIZATION DYNAMICS IN ONE DIMENSIONAL MAGNONIC CRYSTAL	524
<i>Dhurairaj, G. ; Sabareesan, P. ; Daniel, M.</i>	
DB-07 - MAGNETIC SKYRMIONS MOTION DRIVEN BY PROPAGATING SPIN WAVES	525
<i>Ding, J. ; Wang, W. ; Fangohr, H. ; Yang, X. ; Zhu, T.</i>	
DB-08 - MAGNONIC BANDSTRUCTURE IN A SKYRMION CRYSTAL	526
<i>Ma, F. ; Braun, H. ; Zhou, Y. ; Lew, W.</i>	
DC-01 - MECHANICALLY INDUCED 180 SWITCHING IN NANOMAGNETS.....	527
<i>Yi, M. ; Xu, B.</i>	
DC-02 - MODELING PERPENDICULAR MAGNETIC MULTILAYERED OXIDE MEDIA WITH DISCRETIZED MAGNETIC LAYERS	528
<i>Fu, S. ; Lomakin, V. ; Torabi, A. ; Lengsfeld, B.</i>	
DC-03 - MULTISCALE MODELING OF ULTRAFAST ELEMENT-SPECIFIC MAGNETIZATION DYNAMICS IN FENI FERROMAGNETIC ALLOYS.....	529
<i>Hinzke, D. ; Axtia, U. ; Carva, K. ; Nieves, P. ; Chubykalo-Fesenko, O. ; Oppeneer, P.M. ; Nowak, U.</i>	
DC-04 - MITIGATION OF MAGNUS FORCE IN CURRENT-INDUCED SKYRMION DYNAMICS	530
<i>Fook, H. ; Ian, C. Ang Ching ; Gan, W. ; Purnama, I. ; Lew, W.</i>	
DC-05 - DETERMINING PSEUDO-PARTICLE PROPERTIES OF SKYRMION FROM ITS RESPONSE TO APPLIED ALTERNATING CURRENT.....	531
<i>Wu, S. ; Gan, W. ; Purnama, I. ; Lew, W.</i>	
DC-06 - HYSTERESIS MODEL OF MAGNETICALLY CONTROLLED SHAPE MEMORY ALLOY BASED ON A PID NEURAL NETWORK.....	532
<i>Zhou, M. ; Zhang, Q.</i>	
DD-03 - ELECTRON THEORY OF INTERSTITIAL DOPANT DEPENDENCE OF MAGNETIC PROPERTIES IN ND₂Fe₁₁TiX (X= B, C, N, O, F).....	533
<i>Harashima, Y. ; Terakura, K. ; Kino, H. ; Ishibashi, S. ; Miyake, T.</i>	
DD-04 - MAGNETIC PHASE RELATIONS OF RCo₃	534
<i>He, Q. ; Guo, Y.</i>	
DD-05 - IN-SITU OBSERVATION OF DOMAIN WALL PINNING IN SM(CO, FE, CU, ZR)Z MAGNET BY LORENTZ MICROSCOPY.....	535
<i>Tian, Y. ; Liu, Z. ; Xia, W. ; Xu, H. ; Du, J. ; Zhang, J. ; Yan, A. ; Liu, J.</i>	
DD-07 - MICROSTRUCTURE AND MAGNETIC PROPERTIES OF SMCO-BASED NANOCRYSTALLINE ALLOYS DOPED WITH CR₃C₂	536
<i>Li, L.</i>	
DD-08 - EFFECT OF FE ON HYDROGENATION AND DEHYDROGENATION OF SM(CO_{0.53}ZR_{0.02})_{7.84}(X=0.2,0.3,0.4,0.5) ALLOYS.....	537
<i>Li, M. ; Liu, Z. ; Lei, L. ; Xue, Z. ; He, S. ; Chen, R. ; Lee, D. ; Liu, X. ; Yan, A.</i>	
DE-01 - TIME RESOLVED MAGNETIC IMAGING AT 10GHZ AND BEYOND.....	538
<i>Ohldag, H. ; Bonetti, S. ; Kukreja, R. ; Frisch, J. ; Duerr, H. ; Stoehr, J.</i>	
DE-03 - STACKED TOPOLOGICAL SPIN TEXTURES AS EMITTERS FOR MULTIDIMENSIONAL SPIN WAVE MODES	539
<i>Sluka, V. ; Weigand, M. ; Kakay, A. ; Erbe, A. ; Tyberkevych, V. ; Slavin, A. ; Deac, A. ; Lindner, J. ; Fassbender, J. ; Raabe, J. ; Wintz, S.</i>	
DE-05 - DEPENDENCE OF ALL-OPTICAL MAGNETIC SWITCHING ON THE SUBLATTICE MAGNETIZATION ORIENTATION IN TB-FE THIN FILMS.....	540
<i>Hassdenteufel, A. ; Schubert, C. ; Schmidt, J. ; Richter, P. ; Zahn, D. ; Salvan, G. ; Helm, M. ; Bratschitsch, R. ; Albrecht, M.</i>	
DE-06 - GHOST IMAGING PROTOCOL FOR MAGNETO-OPTICAL APPLICATIONS	541
<i>Caprile, A. ; Meda, A. ; Avella, A. ; Berchera, I. Ruo ; Degiovanni, I. ; Magni, A. ; Genovese, M.</i>	

DF-01 - MULTIHEAD MULTITRACK DETECTION WITH REDUCED-STATE SEQUENCE ESTIMATION IN SHINGLED MAGNETIC RECORDING	542
<i>Fan, B. ; Thapar, H.K. ; Siegel, P.H.</i>	
DF-02 - RESOLUTION LIMITS OF TIMING-BASED SERVO SCHEMES IN MAGNETIC TAPE DRIVES.....	543
<i>Furrer, S. ; Pantazi, A. ; Cherubini, G. ; Lantz, M.</i>	
DF-03 - NOISE AND ERROR PATTERN IN SHINGLED MAGNETIC RECORDING	544
<i>Wang, Y. ; Victora, R.H. ; Bhagavatula, V.</i>	
DF-04 - SIGNAL PROCESSING AND DETECTION FOR ARRAY READER MAGNETIC RECORDING SYSTEM.....	545
<i>Xia, H. ; Lu, L. ; Jeong, S. ; Pan, L. ; Xiao, J.</i>	
DF-06 - AREAL DENSITY PREDICTION FOR MICROWAVE ASSISTED MAGNETIC RECORDING (MAMR)	546
<i>Teo, K.K. ; Chan, K. ; Greaves, S. ; Kanai, Y.</i>	
DF-07 - A STUDY OF TIMING RECOVERY FOR HIGH RECORDING DENSITY TAPE SYSTEM	547
<i>Musha, A. ; Shimizu, O. ; Nakamura, Y. ; Okamoto, Y.</i>	
DF-08 - UPPER LIMITS ON ACHIEVABLE STORAGE DENSITY USING TURBO EQUALIZATION IN TWO-DIMENSIONAL MAGNETIC RECORDING	548
<i>No, J. ; Moon, J.</i>	
DG-01 - INVESTIGATION OF THE STRAIN-AFFECTED ULTRAFAST SPIN SWITCHING ON COBALT-DOPED CARBON FULLERENES.....	549
<i>Li, C. ; Liu, J. ; Zhang, S. ; Lefkidis, G. ; Hubner, W.</i>	
DG-02 - NONLINEAR DYNAMIC CHARACTERISTICS OF MSMA MICROGRIPPER IN HARMONIC MAGNETIC FIELDS	550
<i>Xu, J. ; Kong, Y. ; Zhu, Z.</i>	
DG-06 - IN-SITU OBSERVATION OF BEHAVIOR OF MAGNETIC PARTICLE CLUSTERS DURING TORQUE TRANSFER BETWEEN TEXTURED MAGNETIC POLES	551
<i>Oshima, T. ; Nagato, K. ; Kuwayama, A. ; Enokizono, K. ; Okada, H. ; Matsushima, T. ; Takagi, S. ; Nakao, M. ; Hamaguchi, T.</i>	
DG-07 - MAGNETO OPTICAL KERR ROTATION OF [(GETE)₂(SB₂TE₃)₁]N SUPERLATTICE	552
<i>Do, B. ; Awano, H. ; Saito, Y. ; Tominaga, J. ; Murakami, S.</i>	
DG-08 - MICROWAVE ABSORPTION AND CATALYTIC ACTIVITY OF NICO NANOSTRUCTURES	553
<i>Liu, J. ; Zeng, M.</i>	
DH-01 - SOLENOID MICROINDUCTORS WITH ANISOTROPIC NANOLAMINATED CONIFE CORES FOR HIGH-FREQUENCY DC-DC POWER CONVERSION.....	554
<i>Kim, J. ; Kim, M. ; Kim, J. ; Allen, M.</i>	
DH-02 - DEVELOPMENT OF CONCENTRIC-WINDING TYPE THREE-PHASE VARIABLE INDUCTOR	555
<i>Nakamura, K. ; Honma, K. ; Ohinata, T. ; Arimatsu, K. ; Kojima, T. ; Yamada, M. ; Matsumoto, R. ; Takiguchi, M. ; Ichinokura, O.</i>	
DH-03 - INVESTIGATION OF NON-LINEAR PHENOMENON FOR INTEGRATED MAGNETICS USED IN LLC CONVERTERS	556
<i>Water, W. ; Lu, J. ; Wang, N.</i>	
DH-04 - A NOVEL BRIDGE-TYPE HYBRID SATURATED CORE FAULT CURRENT LIMITER BASED ON PERMANENT MAGNETS.....	557
<i>Yuan, J. ; Lei, Y. ; Wei, L. ; Chen, B.</i>	
DH-05 - ON-LINE DEMAGNETIZATION METHOD FOR AN IRON CORE CT	558
<i>Zheng, T. ; Hu, E. ; Yang, H. ; Zhao, R. ; Kang, Y. ; Terzija, V.</i>	
DH-06 - MATERIAL OPTIMIZATION WITH PERPENDICULAR ANISOTROPY FOR CLOSED-LOOP MAGNETIC INDUCTORS	559
<i>El-Ghazaly, A. ; Sato, N. ; White, R.M. ; Wang, S.X.</i>	
DH-07 - OPTIMAL DESIGN OF SUPERCONDUCTING CONTROLLED REACTOR BASED ON IMMUNE ALGORITHM AND ANSYS	560
<i>Yuan, J. ; Yu, Z. ; Xue, G. ; Sun, B. ; Chen, B.</i>	
DH-08 - STUDY ON THE ELECTRIC PERFORMANCES OF PLANAR INDUCTOR WITH FE-SYSTEM MAGNETIC FLAKE COMPOSITE INTEGRATED FOR SIP DC-TO-DC CONVERTER APPLICATIONS.....	561
<i>Endo, Y. ; Sato, H. ; Miyazaki, T. ; Yamaguchi, M. ; Kamada, H. ; Takahashi, M. ; Sakamoto, M. ; Maita, S. ; Kato, N. ; Yorozu, Y. ; Yasui, T.</i>	
EA-01 - RESEARCH AND DEVELOPMENT OF RARE EARTH-IRON INTERSTITIAL COMPOUNDS	562
<i>Yang, Y. ; Yang, J. ; Han, J. ; Liu, S. ; Wang, C. ; Du, H.</i>	
EA-02 - DECODING MAGNETIC ANISOTROPY TEMPERATURE DEPENDENCE: 3D-5D(4D), 3D-METALLOID AND FECO/MGO CASES.....	563
<i>Mryasov, O.N. ; Kalitsov, A. ; Okatov, S. ; Singh, A. ; Faleev, S. ; Barker, J.</i>	
EA-03 - THERMAL STABILITY OF COERCIVITY IN GRAIN BOUNDARY MODIFIED ANISOTROPIC HOT-DEFORMED ND-FE-B MAGNETS.....	564
<i>Sepehri-Amin, H. ; Liu, L. ; Ohkubo, T. ; Yano, M. ; Shoji, T. ; Kato, A. ; Hono, K.</i>	
EA-06 - ARTIFICIAL FABRICATION AND CHARACTERIZATION OF L10-ORDERED FENI THIN FILMS	565
<i>Takanashi, K. ; Mizuguchi, M. ; Kojima, T. ; Tashiro, T.</i>	
EB-01 - SPIN POLARIZED TUNNELING STUDY ON SPIN HALL EFFECT METALS AND TOPOLOGICAL INSULATOR	566
<i>Liu, L. ; Chen, C. ; Sun, J.Z. ; Richardella, A. ; Garate, I. ; Zhu, Y. ; Samarth, N.</i>	
EB-03 - KONDO EFFECT ON THE TRANSPORT PROPERTIES IN THE MULTIFERROIC TUNNEL JUNCTION OF LA_{0.7}SR_{0.3}MNO₃/BATIO₃/LA_{0.7}SR_{0.3}MNO₃.....	567
<i>Huang, W. ; Yin, Y. ; Yang, S. ; Feng, L. ; Zhang, D. ; Zhao, W. ; Li, Q. ; Li, X.</i>	

EB-06 - SPIN LIGHT EMITTING DIODE WITH COFEB/MGO SPIN INJECTOR.....	568
<i>Lu, Y. ; Liang, S. ; Zhang, T. ; Barate, P. ; Frougier, J. ; Renucci, P. ; Xu, B. ; Jaffres, H.Y. ; George, J. ; Devaux, X. ; Hehn, M. ; Marie, X. ; Mangin, S. ; Amand, T. ; Han, X. ; Wang, Z.</i>	
EB-07 - EFFECT OF MN IMPURITIES ON THE 3-TERMINAL HANLE SIGNALS IN FERROMAGNET/OXIDE TUNNEL CONTACTS ON A SEMICONDUCTOR.....	569
<i>Spiesser, A.M. ; Saito, H. ; Yuasa, S. ; Jansen, R.</i>	
EB-08 - TUNNELING ANISOTROPIC MAGNETORESISTANCE WITH HALF-METALLIC ELECTRODES	570
<i>Burton, J.D. ; Tsymbal, E.Y.</i>	
EB-09 - DOUBLE MAGNETIC TUNNEL JUNCTIONS WITH PERPENDICULAR ANISOTROPY	571
<i>Cuchet, L. ; Sousa, R.C. ; Auffret, S. ; Prejbeanu, I.L. ; Dieny, B.</i>	
EB-10 - CONDUCTIVE ATOMIC FORCE MICROSCOPY OF SMALL MAGNETIC TUNNEL JUNCTIONS WITH INTERFACE ANISOTROPY	572
<i>Majetich, S. ; Piotrowski, S.K. ; Bapna, M. ; Oberdick, S.D. ; Li, M. ; Chien, C. ; Tryputen, L. ; Ross, C. ; Almasi, H. ; Wang, W.</i>	
EC-01 - INCREASING THE MAGNETISATION OF ELECTROLESSLY DEPOSITED NI-B NANOTUBES.....	573
<i>Richardson, D. ; Rhen, F.M.</i>	
EC-03 - COMPOSITION-DEPENDENT REORIENTATION OF MAGNETIC ANISOTROPY IN ELECTRODEPOSITED CONI NANOWIRE ARRAYS.....	574
<i>Samardak, A.S. ; Ognev, A. ; Sukovatitsina, E. ; Samardak, A. ; Modin, E. ; Chebotkevich, L. ; Panahi-Danaei, E. ; Nasirpour, F.</i>	
EC-04 - LOCAL CONTROL OF DOMAIN WALL DYNAMICS IN FERROMAGNETIC RINGS.....	575
<i>Richter, K. ; Mawass, M. ; Krone, A. ; Kruger, B. ; Weigand, M. ; Stoll, H. ; Schutz, G. ; Klauui, M.</i>	
EC-05 - DOPING EFFECTS ON STRUCTURE, MORPHOLOGY AND MAGNETIC PROPERTIES OF SMFE1-XMNXO3 NANOPOWDERS	576
<i>Li, W. ; Xu, J. ; Shen, H.</i>	
EC-07 - DIRECT DETECTION OF NEIGHBORING STRAY FIELD INTERACTION ON A SINGLE NANODISK USING MICRO-FOCUSED BRILLOUIN LIGHT SCATTERING SPECTROSCOPY	577
<i>Shimon, G. ; Adeyeye, A.</i>	
EC-08 - MAGNETORESISTANCE OF CYLINDRICAL NANOWIRES WITH ARTIFICIAL PINNING SITE.....	578
<i>Vidal, E.Vilanova ; Mohammed, H. ; Ivanov, I. ; Kosel, J.</i>	
EC-09 - SYNTHESIS AND CHARACTERISATION OF NI-FE NANOTUBES.....	579
<i>Richardson, D. ; Rhen, F.M. ; Kingston, S.</i>	
EC-10 - MICROSTRUCTURE AND IMPROVED COERCIVITY OF MN1.33GA NANOFILAKES BY SURFACTANT-ASSISTED BALL MILLING	580
<i>Lu, Q. ; Wang, M. ; Zhang, H. ; Yue, M.</i>	
EC-11 - CONTROL OF DOMAIN WALL POSITION IN L-SHAPED FE4N NEGATIVELY SPIN POLARIZED FERROMAGNETIC NANOWIRE	581
<i>Gushi, T. ; Ito, K. ; Honda, S. ; Yasutomi, Y. ; Higashikozono, S. ; Toko, K. ; Oosato, H. ; Sugimoto, Y. ; Asakawa, K. ; Ota, N. ; Suemasu, T.</i>	
EC-12 - SPIN WAVES MODES IN COBALT NANOWIRES ARRAYS	582
<i>Gonzalez, D. ; Roussigne, Y. ; Cherif, S.M. ; Stashkevich, A. ; Belmuguenai, M. ; Vazquez, M.</i>	
ED-02 - ELECTROMOTIVE FORCE INDUCED BY DOMAIN WALL PROPAGATION IN CYLINDRICAL MAGNETIC MICROWIRE	583
<i>Jimenez, A. ; Varga, R. ; Vazquez, M.</i>	
ED-03 - FORMATION OF BULK NANOCRYSTALLINE AND AMORPHOUS ALLOY WITH CONTROLLABLE MICROSTRUCTURE AND MAGNETIC PROPERTIES BY PLASMA SPRAY DEPOSITION	584
<i>Denisova, E. ; Iskhakov, R. ; Lepeshev, A. ; Saunin, V. ; Telegin, S. ; Kuzovnikova, L. ; Shepeta, N.</i>	
ED-04 - MICROSTRUCTURE, TEXTURE EVOLUTION AND MAGNETIC PROPERTIES OF STRIP-CASTING NON-ORIENTED 6.5 WT.% SI ELECTRICAL STEEL SHEETS WITH DIFFERENT THICKNESS.....	585
<i>Li, H. ; Liu, H.</i>	
ED-05 - MAGNETO-STRICTIVE BEHAVIOR OF FE-B(001) SINGLE-CRYSTAL FILMS UNDER ROTATING MAGNETIC FIELDS	586
<i>Kawai, T. ; Aida, T. ; Ohtake, M. ; Futamoto, M.</i>	
ED-06 - THE EFFECT OF COOLING RATE ON ORDER DEGREE OF 6.5 WT% SI ELECTRICAL STEEL	587
<i>Wang, X. ; Liu, H.</i>	
ED-07 - STUDIES ON MAGNETIC PROPERTIES AND BALL-MILLING PROCESS OF FE-SI-CR POWDERS	588
<i>Zhou, X. ; Liang, D. ; Wang, X.</i>	
ED-08 - LARGE CONVERSE MAGNETOELECTRIC PROPERTIES WITHOUT BIAS IN COMPOSITE OF ROSEN-TYPE PIEZOELECTRIC TRANSFORMER AND MAGNETIZATION-GRADED FERROMAGNETIC MATERIAL	589
<i>Yang, C. ; Li, P. ; Wen, Y. ; Yang, A. ; Wang, D. ; Zhang, F. ; Zhang, J.</i>	
ED-09 - NEW APPROACH TO CLOSELY-SPACED DISORDERED COBALT-GRAPHENE NANOCOMPOSITES FOR NON-CONDUCTIVE FERROMAGNETIC FILMS: FROM LOCAL STRUCTURE TO RADIO-ELECTRIC PROPERTIES.....	590
<i>Takacs, H. ; Herman, V. ; Viala, B. ; Ramos, J.Alarcon ; Tortai, J. ; Duclairoir, F.</i>	
ED-10 - FORMATION OF {100} TEXTURE IN 2.3%SI-0.1%MN STEEL STRIPS BY SHORT-TIME ANNEALING AND THEIR MAGNETIC PROPERTIES	591
<i>Heo, N.H. ; Heo, N.H. ; Kim, D.I. ; Kim, S.-J.</i>	
ED-11 - MAGNETIC PROPERTIES AND GMI RESPONSE IN THIN FINEMET COLD DRAWN MICROWIRES.....	592
<i>Chiriac, H. ; Corodeanu, S. ; Donac, A. ; Dobrea, V. ; Ababei, G. ; Lostun, M. ; Ovari, T. ; Lupu, N.</i>	

ED-12 - TAYLORING THE HYSTERESIS LOOP OF SOFT MAGNETIC NANOCRYSTALLINE ALLOYS BY MAGNETIC AND TENSILE STRESS ANNEALING	593
<i>Varga, L.K.</i>	
EE-01 - ANGULAR DEPENDENT VORTEX GLASS PHASE TRANSITION IN BAFE1.8CO0.2AS2 SINGLE CRYSTAL	594
<i>Hao, F. ; Zhang, M. ; Teng, M. ; Yin, Y. ; Jiao, W. ; Cao, G. ; Li, X.</i>	
EE-02 - SINGLET SUPERCONDUCTIVITY IN SMO0.82F0.18FEAS	595
<i>Gifford, J. ; Chen, B. ; Zhang, J. ; Zhao, G. ; Kim, D. ; Wu, D. ; Chen, T.</i>	
EE-03 - ACTIVE CONTROL OF MAGNETORESISTANCE OF ORGANIC SPIN VALVES USING FERROELECTRICITY	596
<i>Shen, J.</i>	
EE-04 - EFFECTS OF GEOMETRY ON SKYRMION PINNING AND OPERATION SYMMETRY	597
<i>Ian, C.Ang Ching ; Fook, H. ; Gan, W. ; Purnama, I. ; Lew, W.</i>	
EE-06 - UNIPOLAR RESISTIVE SWITCHING IN SPIN-COATED COBALT FERRITE THIN FILMS	598
<i>Liu, C. ; Mustaqima, M. ; Yoo, P. ; Kim, D. ; Lee, B.</i>	
EE-07 - STRUCTURE AND MAGNETIC PROPERTIES OF RIN2.9CO0.1 (R=LA, CE, PR, ND)	599
<i>He, Q. ; Guo, Y.</i>	
EE-08 - TEMPERATURE DEPENDENCE OF MAGNETIZATION, ANISOTROPY AND HYPERFINE FIELDS OF NIFE2-XYBXO4 (X = 0, 0.05, 0.075)	600
<i>Garimella, M. ; Kodam, Y. ; Reddy, V.R.</i>	
EE-09 - STRAIN EFFECT OF A-AXIS ORIENTED SR1-XLAXCUO2 THIN FILMS GROWN ON LAALO3 SUBSTRATES	601
<i>He, Y. ; Ito, M. ; Hajiri, T. ; Ueda, K. ; Asano, H.</i>	
EF-01 - ENERGY EFFICIENT THERMALLY INDUCED MAGNETIZATION SWITCHING BY TAILORING THE ELECTRON AND PHONON DYNAMICS	602
<i>Atxitia, U. ; Ostler, T.A. ; Chubykalo-Fesenko, O. ; Chantrell, R.</i>	
EF-02 - INVERSE FARADAY EFFECT AS MECHANISM FOR ULTRAFAST ALL-OPTICAL MAGNETIC SWITCHING	603
<i>Hinze, D. ; Berritta, M. ; Atxitia, U. ; Mondal, R. ; Oppeneer, P.M. ; Nowak, U.</i>	
EF-03 - A THEORETICAL STUDY OF THERMALLY ACTIVATED MAGNETIZATION SWITCHING UNDER MICROWAVE ASSISTANCE	604
<i>Suto, H. ; Kudo, K. ; Nagasawa, T. ; Kanao, T. ; Mizushima, K. ; Sato, R. ; Okamoto, S. ; Kikuchi, N. ; Kitakami, O. ; Shimatsu, T.</i>	
EF-04 - ANALYSIS AND COMPARISONS OF LLB VARIANTS FOR HIGH TEMPERATURE MAGNETIZATION DYNAMICS	605
<i>Eason, K. ; Krupin, O. ; Chernyshov, A. ; Livshitz, B.</i>	
EF-07 - HEAT ASSISTED MAGNETIC RECORDING MEDIA DESIGN USING IMPEDANCE MODIFICATION METHOD	606
<i>Ghoreyshi, A. ; Wang, S. ; Victora, R.H.</i>	
EF-08 - THE IMPORTANCE OF DEPTH VARYING FIELDS FOR MAMR SWITCHING-FIELD REDUCTION	607
<i>Xu, L. ; Olson, T. ; Lengsfeld, B. ; Shiimoto, M. ; Sugiyama, M. ; Torabi, A.</i>	
EF-09 - STABILITY STUDY OF SPIN TORQUE OSCILLATOR FOR MICROWAVE ASSISTED MAGNETIC RECORDING (MAMR)	608
<i>Zhou, T. ; Zhang, M. ; Yuan, Z.</i>	
EF-10 - DETRIMENTAL EFFECTS OF THE STO VERTICAL FIELD COMPONENT IN MAMR	609
<i>Olson, T. ; Igarashi, M. ; Lengsfeld, B. ; Shiimoto, M. ; Sugiyama, M.</i>	
EF-11 - TECHNOLOGIES FOR MAGNETIC TAPE RECORDING AT 100GB/IN2 AND BEYOND	610
<i>Lantz, M. ; Furrer, S. ; Engelen, J.B. ; Pantazi, A. ; Rothuizen, H. ; Cideciyan, R.D. ; Cherubini, G. ; Haeberle, W. ; Jelitto, J. ; Eleftheriou, E. ; Oyanagi, M. ; Morooka, A. ; Mori, M. ; Kurihashi, Y. ; Kaneko, T. ; Tada, T. ; Suzuki, H. ; Harasawa, T. ; Shimizu, O. ; Ohtsu, H. ; Noguchi, H.</i>	
EG-01 - HARMONIC ANALYSIS OF LOW STATOR SLOT AND ROTOR POLE COMBINATION FSPM MACHINE TOPOLOGY FOR HIGH SPEED	611
<i>Bobba, D. ; Li, Y. ; Sarlioglu, B.</i>	
EG-02 - MAGNETIC SLOT WEDGE DESIGN FOR HIGH POWER PERMANENT MAGNET TRACTION MOTORS	612
<i>Rao, J. ; Qu, R.</i>	
EG-03 - DESIGN AND ANALYSIS OF VARIABLE FLUX POLE-CHANGING PERMANENT MAGNET MEMORY MACHINE	613
<i>Wang, D. ; Lin, H. ; Yang, H. ; Zhang, Y. ; Lu, X.</i>	
EG-04 - DYNAMIC ECCENTRICITY IN SINGLE-ROTOR SINGLE-STATOR AXIAL FLUX PERMANENT MAGNET SYNCHRONOUS MACHINE WITH PARALLEL PATH WINDINGS	614
<i>Li, J. ; Qu, R. ; Cho, Y.</i>	
EG-05 - ELECTRICAL AND MAGNETIC MODEL COUPLING OF PERMANENT MAGNET MACHINES BASED ON HARMONIC ANALYSIS	615
<i>Merdzan, M. ; Jumayev, S. ; Borisavljevic, A. ; Boynov, K.O. ; Paulides, J.J. ; Lomonova, E.</i>	
EG-06 - REDUCTION OF EDDY-CURRENT LOSSES BY CIRCUMFERENTIAL AND RADIAL PM SEGMENTATION IN AXIAL FLUX PERMANENT MAGNET MACHINES WITH FRACTIONAL-SLOT CONCENTRATED WINDING	616
<i>Li, J. ; Qu, R. ; Cho, Y. ; Li, D.</i>	

EG-07 - REDUCED DYSPROSIUM PERMANENT MAGNETS AND THEIR APPLICATIONS IN ELECTRIC VEHICLE TRACTION MOTORS	617
<i>Chen, L. ; Hopkinson, D. ; Wang, J. ; Cockburn, A. ; Sparkes, M. ; O'Neill, W.</i>	
EG-08 - OPTIMAL DESIGN OF ASYMMETRIC ROTOR OVERHANG LENGTHS IN AN AXIAL-FLUX DUAL-STATOR PERMANENT MAGNET VERNIER MACHINE	618
<i>Zhao, F. ; Kwon, B.</i>	
EG-09 - TORQUE CHARACTERISTICS OF DUAL STATOR PERMANENT MAGNET VERNIER MACHINE WITH DIFFERENT POLE/SLOT COMBINATIONS	619
<i>Zhang, Y. ; Lin, H. ; Fang, S. ; Wang, D. ; Yang, H.</i>	
EG-10 - INDUCTANCE CALCULATION IN VARIABLE-FLUX FLUX-INTENSIFYING PERMANENT MAGNET SYNCHRONOUS MACHINES USING IMPROVED FROZEN PERMEABILITY METHOD	620
<i>Sun, A. ; Li, J. ; Qu, R.</i>	
EG-11 - COMPARISON ANALYSIS OF DEMAGNETIZATION AND TORQUE RIPPLE IN ACCORDANCE WITH FREEWHEELING CURRENT IN BLDC MOTOR	621
<i>Park, J. ; Kim, H. ; Hur, J.</i>	
EG-12 - THE EFFECT OF PWM ON ROTOR EDDY-CURRENT LOSSES IN HIGH-SPEED PERMANENT MAGNET MACHINES	622
<i>Jumayev, S. ; Merdzan, M. ; Boynov, K.O. ; Paulides, J.J. ; Pyrhonen, J. ; Lomonova, E.</i>	
EH-01 - MODELING OF NON-CUBOIDAL MAGNETIC SOURCES IN 3-D FOURIER MODELING	623
<i>Pluk, K.J. ; Jansen, J. ; Lomonova, E.</i>	
EH-02 - HARMONIC AND MAGNETIC CHARGE MODEL COMPARISON OF SPHERICAL PERMANENT MAGNET STRUCTURES CONSIDERING A NEUMANN BOUNDARY	624
<i>Van Nihuijs, B. ; Jansen, J. ; Gysen, B.L. ; Lomonova, E.</i>	
EH-03 - INFLUENCE OF TEETH MATERIALS AND SLOT-POLE COMBINATIONS ON ELECTROMAGNETIC FORCES AND VIBRATIONS OF A 12 MW SUPERCONDUCTING DIRECT-DRIVE WIND GENERATOR	625
<i>Chen, H. ; Qu, R. ; Li, J. ; Liu, Y. ; Fang, H.</i>	
EH-04 - ANALYTICAL METHOD TO CALCULATE FLUX DENSITY IN A SUPERCONDUCTING (SC) DIRECT-CURRENT (DC) WIND GENERATOR	626
<i>Liu, Y. ; Noe, M.</i>	
EH-05 - MODELING THE FIELD INSIDE A SOFT-MAGNETIC BOUNDARY USING SURFACE CHARGE MODELING	627
<i>Van Casteren, D.T. ; Paulides, J.J. ; Lomonova, E.</i>	
EH-07 - ANALYSIS OF POWER FACTOR OF STATOR DC EXCITED VERNIER RELUCTANCE MACHINES	628
<i>Jia, S. ; Qu, R. ; Li, J.</i>	
EH-08 - MODELING AND VALIDATION OF HIGH-TEMPERATURE ELECTROMAGNETIC ACTUATOR	629
<i>Noh, M.D. ; Gi, M. ; Kim, D. ; Park, Y. ; Lee, J. ; Kim, J.</i>	
EH-09 - 2D SEMIANALYTICAL MODELING OF EDDY CURRENTS IN SEGMENTED STRUCTURES	630
<i>Custers, C. ; Overboom, T. ; Jansen, J. ; Lomonova, E.</i>	
EH-11 - DETECTION OF ECCENTRICITY FAULT BY MONITORING MAGNETIC FIELD OF STATOR YOKE IN INDUCTION MOTOR	631
<i>Bao, X. ; Wang, H. ; Di, C. ; Cheng, Z.</i>	
EH-12 - FAULT SIGNATURE OF A FLUX-SWITCHING DC-FIELD GENERATOR	632
<i>Lin, F. ; Chau, K. ; Lee, C. ; Liu, C.</i>	
EI-02 - INTEGRATION OF MAGNETORESISTIVE SENSORS WITH ATOMIC FORCE MICROSCOPY CANTILEVERS FOR SCANNING MAGNETORESISTANCE MICROSCOPY APPLICATIONS	633
<i>Costa, M. ; Gaspar, J. ; Ferreira, R. ; Paz, E. ; Fonseca, H. ; Martins, M. ; Cardoso, S. ; Freitas, P.</i>	
EI-04 - NONINTRUSIVE CURRENT SENSOR FOR TWO-WIRE POWER CORDS	634
<i>Wen, Y. ; Zhang, J. ; Li, P.</i>	
EI-05 - AUTOMATIC SCANNING SYSTEM FOR BACK-SIDE DEFECT OF STEEL STRUCTURE USING MAGNETIC FLUX LEAKAGE METHOD	635
<i>Sakai, K. ; Morita, K. ; Haga, Y. ; Kiwa, T. ; Inoue, K. ; Tsukada, K.</i>	
EI-06 - NEW EXPLORATIONS OF MAGNETOELASTIC FORCE TRANSDUCERS WHEREIN BENDING MOMENTS CAUSE MAGNETIC FIELDS TO ARISE	636
<i>Garshelis, I.J.</i>	
EI-07 - ENHANCED SENSITIVITY IN FECUNBSIB/FEGA/PZT LAMINATE MAGNETOELECTRIC SENSOR WITH UP-CONVERSION MECHANISM BY SQUARE WAVE MODULATION	637
<i>Yang, C. ; Li, P. ; Wen, Y. ; Yang, A. ; Wang, D. ; Zhang, F. ; Zhang, J.</i>	
EI-08 - STUDY ON THE EFFECTS OF YOKE PARAMETERS ON UNIFORM MAGNETIZATION FOR MAGNETIC FLUX LEAKAGE TESTING	638
<i>Wang, Y. ; Wu, X. ; Zhao, K.</i>	
EI-09 - GRADIOMETER AND MAGNETOMETER INTEGRATION BY USING A PAIR OF FUNDAMENTAL MODE ORTHOGONAL FLUXGATE SENSOR HEADS	639
<i>Sasada, I. ; Harada, S. ; Elrefai, A.L.</i>	
EI-10 - INVESTIGATION OF MAGNETIC INTERFERENCE TO ENHANCE THE SYSTEM SENSITIVITY OF THE SELF-POWERED PIEZOELECTRIC CURRENT SENSORS NETWORK	640
<i>Lai, C. ; Yeh, P. ; Chung, T.</i>	

EI-11 - A NOVEL AMR MAGNETIC SENSOR UTILIZING NANOSCALE MAGNETIC-DOMAIN TRANSFORMATION	641
<i>Chen, Y. ; Yeh, P. ; Chung, T.</i>	
EP-02 - DYNAMIC BEHAVIOR OF AIR BEARING SLIDER IN AIR-HELIUM GAS MIXTURES	642
<i>Shi, B. ; Tang, Z. ; Talke, F.</i>	
EP-03 - NANOTRIBOLOGICAL PROPERTIES OF SILICON DOPED DIAMOND-LIKE CARBON FILMS FOR HARD DISK DRIVES	643
<i>Li, L. ; Song, W. ; Liu, J. ; Liu, Q. ; Wang, S. ; Zhang, G.</i>	
EP-04 - EFFECT OF BONDED MOLECULES ON REPLENISHMENT OF LUBRICANT-DEPLETED AREA CREATED BY SLIDING ON MOLECULARLY THIN LUBRICANT FILM	644
<i>Fukuzawa, K. ; Watanabe, R. ; Itoh, S. ; Zhang, H.</i>	
EP-05 - EFFECT OF ASPERITY SIZE DURING CONTACT BETWEEN A THERMAL FLYING HEIGHT CONTROL SLIDER AND A DISK ASPERITY	645
<i>Song, W. ; Li, L. ; Zhang, C. ; Talke, F.</i>	
EP-06 - FILM CONFORMATION AND DYNAMIC PROPERTIES OF ATOMISTICALLY ARCHITECTURED PERFLUOROPOLYETHERS ON THE CARBON OVERCOATED SURFACE	646
<i>Chung, P. ; Jhon, M.S.</i>	
EP-07 - INVESTIGATION INTO TRANSIENT HEAD-DISK INTERACTION USING ADVANCED TIME-FREQUENCY ANALYSIS	647
<i>Wang, Y. ; Peng, Y.</i>	
EP-08 - NUMERICAL SIMULATION OF BEARING FORCE OVER BIT PATTERNED MEDIA USING 3D DSMC METHOD	648
<i>Dai, X. ; Li, H. ; Shen, S. ; Cai, M. ; Cui, F. ; Zhang, G. ; Wu, S.</i>	
EP-09 - ATOMISTIC AND MOLECULAR EFFECTS ON THE SURFACE MORPHOLOGY AND FILM CONFORMATION OF PERFLUOROPOLYETHER LUBRICANT LAYER	649
<i>Chung, P. ; Vemuri, S. ; Jhon, M.S.</i>	
EP-11 - SIMULATION OF PARTICLE TRAJECTORY IN THE HEAD-DISK INTERFACE	650
<i>Liu, S. ; Shen, S. ; Li, H. ; Wu, S.</i>	
EQ-01 - MICROWAVE-ASSISTED SHINGLED MAGNETIC RECORDING	651
<i>Greaves, S. ; Kanai, Y. ; Muraoka, H.</i>	
EQ-02 - SIGNAL-TO-NOISE RATIO IMPROVEMENT OF MAMR ON COX/PT MEDIA	652
<i>Zhao, Z. ; Li, J. ; Wang, L. ; Wei, D. ; Gao, K.</i>	
EQ-03 - INCREASING AC-FIELD FREQUENCY IN MICROWAVE-ASSISTED MAGNETIC RECORDING	653
<i>Koga, R. ; Akagi, F. ; Yoshida, K.</i>	
EQ-04 - MICROMAGNETIC STUDIES ON SWITCHING DYNAMICS OF SPIN-TORQUE OSCILLATORS	654
<i>Zhang, M. ; Wei, D. ; Gao, K.</i>	
EQ-05 - COLLECTIVE MODE EXCITATION ASSIST FOR MAGNETIZATION REVERSAL	655
<i>Elyasi, M. ; Bhatia, C.S. ; Yang, H.</i>	
EQ-06 - SIMULATION OF TEMPERATURE DISTRIBUTION AROUND MEDIA HEAT SPOT IN HEAT ASSISTED MAGNETIC RECORDING	656
<i>Li, H. ; Zhang, G. ; Shen, S. ; Zheng, H. ; Wu, S.</i>	
EQ-07 - A HYBRID MODEL FOR MEDIA LAYER THERMAL MANAGEMENT IN HEAT ASSISTED MAGNETIC RECORDING	657
<i>Jhon, M.S. ; Vemuri, S. ; Kim, H. ; Song, W. ; Chung, P.</i>	
EQ-08 - INFLUENCE OF WAVEGUIDE REFRACTIVE INDEX ON NEAR-FIELD TRANSDUCER EFFICIENCY IN HEAT-ASSISTED MAGNETIC RECORDING	658
<i>Cen, Z. ; Xu, B. ; Toh, Y. ; Li, J. ; Ye, K. ; Zhang, J.</i>	
ER-01 - STRUCTURE AND HIGH-FREQUENCY MAGNETIC PROPERTIES OF CO-HFN NANOGRANULAR FILMS	659
<i>Cao, Y. ; Zhang, Y. ; Ohnuma, S. ; Kobayashi, N. ; Masumoto, H.</i>	
ER-02 - MAGNETOELECTRIC COUPLING CHARACTERISTICS OF MULTI-PHASE LAMINATE HETEROSTRUCTURES BASED ON FECUNBSIB NANOCRYSTALLINE SOFT MAGNETIC ALLOY	660
<i>Qiu, J. ; Wen, Y. ; Li, P. ; Chen, H. ; Li, W.</i>	
ER-03 - INFLUENCE OF MAGNETIC FIELD ANNEALING METHODS ON SOFT MAGNETIC PROPERTIES FOR FECO-BASED NANOCRYSTALLINE ALLOYS	661
<i>Liu, M. ; Wang, Z. ; Xu, Y.</i>	
ER-04 - STRESS-ANNEALING INDUCED ANISOTROPY IN FECRCUNBSIB NANOCRYSTALLINE WIRES	662
<i>Li, Y. ; Liu, P. ; Vazquez, M.</i>	
ER-05 - EXCELLENT HIGH-TEMPERATURE MAGNETIC SOFTNESS FOR SI-RICH FE-BASED NANOCRYSTALLINE ALLOY WITH A SMALL AMOUNT OF AL	663
<i>Han, Y. ; Wang, Z. ; Wen, L. ; Xu, Y.</i>	
ER-06 - TEMPERATURE DEPENDENCE OF LANCET DOMAINS IN GRAIN-ORIENTED FE-3%SI STEELS	664
<i>Iwata, K. ; Suzuki, M. ; Hashimoto, M. ; Ueda, M. ; Matuoka, Y. ; Yasue, T. ; Koshikawa, T. ; Kotsugi, M. ; Ohkochi, T. ; Kinoshita, T. ; Watanabe, Y. ; Ishiyama, K.</i>	
ER-07 - MAGNETIC BEHAVIOR OF SOFT MAGNETIC FEMOCUB METALLIC GLASS AT LOW TEMPERATURE	665
<i>Hasiak, M. ; Miglierini, M.</i>	
ER-08 - EFFECT OF UNDERLAYER ON THICKNESS DEPENDENT MAGNETIC PROPERTIES OF NI-FE FILMS	666
<i>Saravanan, P. ; Hsu, J. ; Tsai, C. ; Singh, A.K. ; Perumal, A.</i>	

ER-09 - MULTI-DOMAIN STRUCTURES IN MAGNETIC MICROWIRE.....	667
<i>Chizhik, A. ; Stupakiewicz, A. ; Maziewski, A. ; Zhukov, A. ; Gonzalez, J.</i>	
ER-10 - UPPER LIMIT FOR THE SIMULTANEOUS EXISTENCE OF HIGH BS AND LOW HC IN NANOCRYSTALLINE FECOSIBPCU ALLOYS.....	668
<i>Zhang, Y. ; Sharma, P. ; Makino, A.</i>	
ER-11 - RELATIONSHIP BETWEEN MAGNETIC PROPERTIES AND HARDNESS ON RECOVERY AND RECRYSTALLIZATION PROCESS IN COLD ROLLED STEEL	669
<i>Ito, F. ; Murakami, T. ; Takekawa, K. ; Kikuchi, H.</i>	
ER-12 - EFFECT OF NI CONTENT ON THE CRYSTALLIZATION, SOFT MAGNETIC PROPERTIES AND GMI EFFECT IN AMORPHOUS CO₆₈FE₇-XNiXS₁₅B₁₀ (X = 0, 1.5, 3, 4.5) RIBBONS	670
<i>Lu, W. ; Xu, Y. ; Fang, X. ; Song, Y. ; Li, X.</i>	
ER-13 - EFFECTS OF METALLOIDS IN FE-RICH SOFT MAGNETIC AMORPHOUS ALLOYS ON MAGNETIZATION.....	671
<i>Wang, Y. ; Takeuchi, A. ; Makino, A. ; Liang, Y. ; Kawazoe, Y.</i>	
ER-14 - SELF-BIAS FERROMAGNETIC RESONANCE AND QUASI MAGNETIC ISOTROPY OF [FECOB/MGO]6 MULTILAYERS PREPARED BY COMPOSITION GRADIENT SPUTTERING	672
<i>Li, S. ; Xue, Q. ; Du, H. ; Chen, C. ; Gao, X. ; Li, Q. ; Zhang, Y. ; Xue, J.</i>	
ES-01 - ANTIFERROMAGNETIC INTERLAYER EXCHANGE COUPLING IN FERROMAGNETIC GAMNAS/GAAS:BE MULTILAYERS	673
<i>Lee, H. ; Lee, S. ; Choi, S. ; Lee, S. ; Liu, X. ; Furdyna, J.K.</i>	
ES-02 - ANALYSIS OF MAGNETIC RELAXATION WITH PRE-EXISTING NUCLEATION SITES BASED ON THE FATUZZO-LABRUNE MODEL	674
<i>Quach, D. ; Handoko, D. ; Lee, S. ; Shim, J. ; Phan, T. ; Kim, D. ; Pham, D. ; Lee, K. ; Jeong, J. ; Ngo, D.</i>	
ES-03 - VOLTAGE-INDUCED REVERSIBLE AND IRREVERSIBLE CHANGES IN THE MAGNETIC COERCIVITY OF FE, CO/ZNO HETEROSTRUCTURES	675
<i>Chang, P. ; Hsu, C. ; Lin, W.</i>	
ES-05 - INFLUENCE OF FERROMAGNETIC ELECTRODES ON THE RESISTIVE SWITCHING DEVICE BASED ON NIO	676
<i>Okabe, K. ; Kawakita, M. ; Yakata, S. ; Kimura, T.</i>	
ES-06 - EFFECTS OF THICKNESS RATIO OF CO TO PT LAYER ON MAGNETIC PROPERTIES AND MICROSTRUCTURE OF [CO/PT]_n MULTILAYER FILMS	677
<i>Yang, T. ; Chen, Y. ; Huang, C. ; Sun, A.</i>	
ES-09 - MONTE CARLO INVESTIGATION OF MAGNETIC AND THERMAL PROPERTIES OF FOUR-SUBLATTICE FERROMAGNETIC-ANTIFERROMAGNETIC DOUBLE LAYER SUPERLATTICES	678
<i>Wang, W. ; Jiang, W. ; Chen, D. ; Xu, S.</i>	
ES-11 - EPITAXIAL GROWTH OF CO_{0.75}FE_{2.25}O₄/NIO BILAYER ON MGO(001) SUBSTRATE	679
<i>Hisamatsu, Y. ; Oka, M. ; Tainosho, T. ; Yanagihara, H. ; Kita, E.</i>	
ES-13 - PERPENDICULAR MAGNETIZATION OF TA/RU/TA/CO/FE/MGO MULTILAYER.....	680
<i>Kil, J. ; Choi, Y. ; Bae, G. ; Park, W. ; Choi, W.</i>	
ES-14 - INFLUENCE OF MODULATION PERIODS ON THE MAGNETIC AND STRUCTURAL PROPERTIES OF L₁₀-FEPT/FE MULTI-LAYER FILMS	681
<i>Yang, B. ; Wang, J. ; Qin, G. ; Li, Z. ; Zhang, Y. ; Zhao, X. ; Esling, C. ; Zuo, L.</i>	
ES-15 - THE EFFECT OF INTERFACIAL INTERMIXING ON MAGNETIZATION AND ANOMALOUS HALL EFFECT IN CO/PD MULTILAYERS.....	682
<i>Guo, Z. ; Wang, X. ; Mi, W.</i>	
ET-02 - VOLTAGE-GATED SKYRMION TRANSISTOR	683
<i>Zhang, X. ; Ezawa, M. ; Zhao, G. ; Zhou, Y.</i>	
ET-03 - NANOCONSTRICTION-BASED SPIN-HALL OSCILLATORS.....	684
<i>Demidov, V.E. ; Urazhdin, S. ; Zholud, A. ; Sadovnikov, A. ; Demokritov, S.O.</i>	
ET-05 - SCALING OF THE ANOMALOUS HALL EFFECT IN FERRIMAGNETIC CO₉₀GD₁₀ THIN FILMS	685
<i>Han, J. ; Sui, W. ; Yang, D. ; Wang, T. ; Chen, H. ; Li, Y. ; Xi, L. ; Si, M. ; Xue, D.</i>	
ET-06 - SPIN HALL MAGNETORESISTANCE IN COFE₂O₄/PT FILMS	686
<i>Wu, H. ; Zhang, Q. ; Wan, C. ; Ali, S. ; You, L. ; Wang, J. ; Choi, Y. ; Han, X.</i>	
ET-07 - THE EFFECT OF SPIN PUMPING IN EPITAXIAL Bi₂Se₃ FILMS.....	687
<i>Chiang, T. ; Lee, J. ; Tai, P. ; Wang, Z. ; Yi, T. ; Lee, S. ; Huang, J.</i>	
ET-08 - MAGNETIC ANISOTROPY INFLUENCE ON INVERSE SPIN HALL VOLTAGE	688
<i>Luo, G. ; Chang, C. ; Lin, J.</i>	
ET-09 - ELECTRICAL SPIN INJECTION INTO INAS NANOWIRES BY LOCAL MEASUREMENT	689
<i>Wang, Z. ; Pan, D. ; Wang, Z. ; Xu, X. ; Wu, Y. ; Miao, J. ; Yin, S. ; Zhao, J. ; Jiang, Y.</i>	
ET-10 - SPIN MOTIVE FORCE AND GENERATION OF PURE SPIN CURRENT IN FERROMAGNETIC RING UNDER TIME MODULATION AND RASHBA SPIN ORBIT COUPLING	690
<i>Ho, C. ; Jalil, M.B.</i>	
ET-11 - A STUDY OF PERPENDICULAR-ANISOTROPY MAGNETIC TUNNEL JUNCTION SWITCHED BY SPIN-HALL-ASSISTED SPIN-TRANSFER TORQUE.....	691
<i>Wang, Z. ; Zhao, W. ; Deng, E. ; Klein, J. ; Chappert, C.</i>	
ET-12 - PRECISE EVALUATION OF SMALL SPIN-DEPENDENT SEEBECK COEFFICIENT FOR PERMALLOY USING LATERAL SPIN VALVE	692
<i>Hu, S. ; Cui, X. ; Nomura, T. ; Kimura, T.</i>	

ET-14 - ENHANCEMENT OF THERMAL SPIN SIGNAL AND SUPPRESSION OF ANOMALOUS NERNST EFFECT IN THE COFEAL/CU/COFEAL LATERAL SPIN VALVE	693
<i>Uematsu, G. ; Nomura, T. ; Hu, S. ; Hidegara, M. ; Kimura, T.</i>	
EU-02 - MAGNETIC PROPERTIES IMPROVEMENT OF MELT SPUN CO86.5HF11.5B2 NANOCOMPOSITES BY REFRACTORY ELEMENTS SUBSTITUTION	694
<i>Chang, H.W. ; Lin, Y. ; Shih, C. ; Liao, M. ; Lee, Y. ; Chang, W.C.</i>	
EU-05 - MAGNETIC PROPERTIES AND COERCIVITY MECHANISM OF MNGA FILMS	695
<i>Feng, J. ; Liu, W. ; Gong, W. ; Ren, W. ; Zhao, X.G. ; Zhang, Z.</i>	
EU-06 - PHASE STRUCTURE AND MAGNETIC PROPERTIES OF MN70GA30-XSN (X = 5-30) ALLOY RIBBONS	696
<i>Zhao, X.G. ; Tong, M. ; Shih, C.W. ; Chang, W.C. ; Liu, W. ; Zhang, Z.</i>	
EU-08 - ENHANCED ENERGY PRODUCT IN MAGNETS INTERMEDIATE BETWEEN ND-FE-B AND FERRITE	697
<i>Tozman, P. ; Venkatesan, M. ; Coey, J.</i>	
EU-09 - EFFECTS OF MILLING CONDITIONS ON THE MAGNETIC PROPERTIES OF MNBI ALLOYS	698
<i>Gjoka, M. ; Sarafidis, C. ; Giannopoulos, G. ; Niarchos, D.</i>	
EU-10 - STRUCTURE, MAGNETIC PROPERTIES AND COERCIVITY MECHANISM OF RAPIDLY QUENCHED MNXGA RIBBONS	699
<i>Gong, W. ; Zhao, X. ; Fan, W. ; Feng, J. ; Lin, A. ; He, J. ; Liu, W. ; Zhang, Z.</i>	
EU-12 - STRAIN-INDUCED HIGH COERCIVITY IN LA0.7SR0.3COO3 FILMS	700
<i>Zhao, Y. ; Yang, H. ; Liu, Y. ; Kuang, H. ; Zhang, M. ; Zuo, W. ; Wang, J. ; Hu, F. ; Sun, J. ; Shen, B.</i>	
EU-13 - SINTERING AND MAGNETIC CHARACTERISTICS OF BARIUM HEXAFERRITES WITH BI2O3/CUO ADDITIVES	701
<i>Wu, C. ; Yu, Z. ; Sun, K. ; Wu, G. ; Yang, Y. ; Jiang, X. ; Guo, R. ; Lan, Z.</i>	
EU-14 - INFLUENCE OF DE-BUBBLING ON CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF ELECTRODEPOSITED CONIP LAYERS	702
<i>Tseng, B. ; Xu, Z. ; Chang, C. ; Hsiao, C. ; Liu, S. ; Hsiao, S. ; Sung, C. ; Chin, T.</i>	
EV-02 - PREPARATION OF ARTIFICIAL BLOOD-CIRCULATION SYSTEM AND APPLICATION OF ELF ELECTROMAGNETIC FIELDS TO EFFECTIVE BLOOD-FLOW CONTROLS	703
<i>Nakagawa, H. ; Ohuchi, M. ; Hoshi, K. ; Sakamoto, Y. ; Tsunoda, M. ; Tsutsumi, A.</i>	
EV-03 - BIOLOGICAL IMMUNOASSAY UTILIZING MAGNETORESISTIVE SENSOR AND MAGNETIC-FIELD-CONTROLLED BINDING BETWEEN MAGNETIC MARKERS AND TARGETS	704
<i>Noguchi, K. ; Sakakibara, T. ; Yoshida, T. ; Enpuku, K.</i>	
EV-04 - IMPROVING ESTIMATION ACCURACY OF NASOGASTRIC TUBE TIP POSITION USING PRE DATA	705
<i>Sasayama, T. ; Gotoh, Y. ; Enpuku, K.</i>	
EV-05 - HYSTERESIS LOSS OF FRACTIONATED MAGNETIC NANOPARTICLES FOR HYPERTHERMIA APPLICATION	706
<i>Sasayama, T. ; Yoshida, T. ; Tanabe, K. ; Tsujimura, N. ; Enpuku, K.</i>	
EV-06 - HEMODYNAMIC PARAMETER ESTIMATION FROM DYNAMIC CONTRAST-ENHANCED MAGNETIC RESONANCE IMAGING WITH TIKHONOV REGULARIZATION METHOD	707
<i>Li, Y. ; Gao, M. ; He, R. ; Ren, Y. ; Liu, H. ; Guo, L. ; Xu, G.</i>	
EV-08 - LIQUID PHASE SYNTHESIS OF SPINEL-STRUCTURED FERRIMAGNETIC IRON OXIDE NANOPARTICLES FOR MAGNETIC HYPERTHERMIA	708
<i>Latiff, H. ; Horiuchi, A. ; Kishimoto, M. ; Yanagihara, H. ; Kita, E.</i>	
EV-11 - DESIGN AND FABRICATION OF MAGNETICALLY DRIVEN CYTOLOGY BRUSH APPLICABLE TO CAPSULE ENDOSCOPE.....	709
<i>Hajima, K. ; Yamashita, M. ; Honda, T.</i>	
EV-13 - OPTIMIZATION OF MAGNETIZING PARAMETERS FOR MULTI-POLE MAGNETIC SCALES BY TAGUCHI METHOD.....	710
<i>Xu, Z. ; Wang, S. ; Zhang, Z. ; Chin, T. ; Sung, C.</i>	
EV-14 - CAPPING-LIGANDS-INDUCED SYNTHESIS OF NON-SPHERICAL MAGNETITE NANOPARTICLES FOR HYPERTHERMIA AND THEIR BIOCOMPATIBILITY STUDY	711
<i>Li, L. ; Leung, C. ; Du, Y. ; Wong, C. ; Pong, P.</i>	
EW-02 - EFFECT OF AIR-GAP BETWEEN METAL STRIPS AND A FERRITE PLATE ON MAGNETIC SHIELDING.....	712
<i>Park, H. ; Kwon, J. ; Kwak, S. ; Ahn, S.</i>	
EW-03 - INFLUENCE OF PERIODIC CARRIER FREQUENCY MODULATION ON LOW FREQUENCY ELECTROMAGNETIC INTERFERENCE OF PERMANENT MAGNET SYNCHRONOUS MOTOR DRIVE SYSTEM.....	713
<i>Xu, Y. ; Yuan, Q. ; Zou, J. ; Li, J.</i>	
EW-04 - THE PROXIMITY EFFECT OF EARTH CONDUCTIVITY CHANGE ON GEOMAGNETICALLY INDUCED CURRENT.....	714
<i>Liu, C. ; Lin, C. ; Dong, B. ; Zhang, P.</i>	
EW-05 - FREQUENCY DOMAIN ANALYSIS OF EM CROSSTALK PROBLEM IN A QUAD BY THE EQUIVALENT CABLE BUNDLE METHOD AMONG TWISTED-WIRE PAIRS CABLE BUNDLE.....	715
<i>Belkhefja, S. ; Lefouilli, M. ; Drissi, K.</i>	
EW-07 - COMMON-MODE ELECTROMAGNETIC INTERFERENCE CALCULATION METHOD FOR A PV INVERTER WITH CHAOTIC SPWM.....	716
<i>Yang, Z. ; Li, H. ; Fang, C. ; Zhu, B. ; Zhang, B.</i>	

EW-08 - WAVE PROCESS IN SCALE-DOWN MODEL OF UHVDC CONVERTER TRANSFORMER WINDING UNDER THE LIGHTNING IMPULSE VOLTAGE	717
<i>Pu, Z. ; Ruan, J. ; Zhang, Y. ; Du, Z. ; Xie, Q.</i>	
EW-09 - MODELING AND ANALYSIS OF MAGNETIC-COMBINATION TRANSFORMER FOR AN AC-DC CONVERTER.....	718
<i>Li, C. ; Huang, W. ; Fan, C. ; Jiang, X.</i>	
EW-11 - THE ANALYSIS ON INNER WINDING STABILITY OF POWER TRANSFORMER AFTER INITIAL SHORT-CIRCUIT AND RECLOSING UNDER SHORT-CIRCUIT FAULT	719
<i>Sun, X. ; Li, Y. ; Han, F. ; Zhang, B. ; Wang, H.</i>	
EW-12 - POWER TRANSFORMER LONGITUDINAL INSULATION ELECTRIC FIELD CALCULATION AND ANALYSIS SOFTWARE	720
<i>Wang, H. ; Li, Y. ; Han, F. ; Sun, X. ; Zhang, B.</i>	
EW-13 - ANALYTIC COMPUTATION OF THE MAGNETIZING INDUCTANCE OF CURRENT INSTRUMENT TRANSFORMERS UNDER CONSIDERATION OF EDDY CURRENTS	721
<i>Jaschke, C. ; Schegner, P.</i>	
EW-14 - CALCULATION OF MAGNETIC FLUX LEAKAGE AND TEMPERATURE FIELD IN NEW POWER TRANSFORMER.....	722
<i>Wu, H. ; Bai, B.</i>	
EX-02 - DESIGN AND ANALYSIS OF A MAGNETIC LEVITATION DEVICE FOR DELOADING THE THRUST-BEARING OF VERTICAL HYDROELECTRIC GENERATING SET	723
<i>Ma, H. ; Liu, J. ; Ju, P.</i>	
EX-04 - METHOD FOR EVALUATING SHIELDING FACTOR OF MAGNETICALLY SHIELDED ROOMS TAKING ACCOUNT OF EDDY CURRENTS USING EXCITING COIL.....	724
<i>Muramatsu, K. ; Gao, Y. ; Yoneyama, Y. ; Sakai, A. ; Yuuki, S. ; Kazami, K. ; Yamazaki, K. ; Shinnoh, T. ; Yamaguchi, T.</i>	
EX-05 - ESTIMATING UNBALANCE MASS OF VERTICAL AXIS WASHING MACHINE BY MEASURING CURRENT RIPPLE OF PMSM MOTOR.....	725
<i>Jung, K. ; Chai, S. ; Kim, Y. ; Hong, J.</i>	
EX-06 - STUDY OF MAGNETIC LEVITATION FOR A 0.18-MM-THICK STEEL PLATE BY ADOPTING TWISTING-MODE CONTROL	726
<i>Suzuki, O. ; Nagashima, D. ; Nishimura, K. ; Nakagawa, T.</i>	
EX-07 - THREE-DIMENSIONAL FINITE ELEMENT MODELING OF ACTIVE MAGNETIC BEARINGS CONSIDERING EDDY CURRENT LOSSES IN LAMINATED ROTOR	727
<i>Zaki, M. ; Mahgoub, O. ; Adly, A.</i>	
EX-08 - HIGH PERFORMANCES OF MAGNETIC LEVITATION SYSTEM BY USING PERSISTENT CURRENT IN SUPERCONDUCTING COIL	728
<i>Takase, S. ; Komori, M. ; Asami, K. ; Sakai, A.</i>	
EX-09 - DESIGN AND OPTIMISATION OF THREE-POLE RADIAL-AXIAL HMB WITH INDEPENDENT RADIAL AND AXIAL CARRYING CAPACITY	729
<i>Zhu, H. ; Ju, J.</i>	
EX-10 - ANALYSIS AND DESIGN OF A LOW STIFFNESS FLAT TYPE VERTICAL-GAP PASSIVE MAGLEV VIBRATION ISOLATION UNIT	730
<i>Zhou, Y. ; Kou, B. ; Yang, X. ; Zhang, H.</i>	
EX-13 - RESEARCH OF ACOUSTIC VIBRATION TECHNIQUE IN ONLINE DEFECTS DETECTION IN PORCELAIN POST INSULATOR.....	731
<i>Liang, K. ; Wang, J. ; Liu, K. ; Wang, L.</i>	
EX-15 - SUPPRESSION FOR DISCHARGE BEARING CURRENTS IN VARIABLE-FREQUENCY MOTORS BASED ON ELECTROMAGNETIC SHIELD	732
<i>Bai, B. ; Wang, Y.</i>	
EY-01 - ANALYSIS OF SPOKE-TYPE IPM MACHINE BY STEP-STAGGERED ROTOR WITH ALTERNATE AIRSPACE-BARRIERS.....	733
<i>Ge, X. ; Zhu, Z. ; Li, J. ; Chen, J.</i>	
EY-02 - ELECTROMAGNETIC PERFORMANCE ANALYSIS OF NOVEL VERNIER PERMANENT-MAGNET MOTOR WITH IMPROVED TORQUE CAPABILITY.....	734
<i>Zhao, W. ; Sun, X. ; Ji, J.</i>	
EY-03 - VECTOR CONTROL OF HYBRID AXIAL FIELD FLUX-SWITCHING PERMANENT MAGNET MACHINE BASED ON PARTICLE SWARM OPTIMIZATION.....	735
<i>Zhao, J. ; Lin, M. ; Xu, D. ; Hao, L.</i>	
EY-04 - MITIGATION OF MAGNETIC FLUX SATURATION IN DUAL-EXCITATION FLUX SWITCHING MOTOR.....	736
<i>Sulaiman, E. ; Zakaria, S.</i>	
EY-06 - MAGNETIC FLUX DISTRIBUTION ANALYSIS OF VARIOUS FLUX SWITCHING MOTORS USING SEGMENTAL ROTOR.....	737
<i>Sulaiman, E. ; Soomro, H.Ali ; Omar, M.</i>	
EY-07 - A NOVEL DESIGN CONCEPT OF A PMSM FOR FLUX WEAKENING OPERATION.....	738
<i>Yu, J. ; Li, L. ; Cao, J.</i>	
EY-08 - COMPARISON OF DOUBLY SALIENT PERMANENT MAGNET MACHINES WITH E-SHAPED AND P-SHAPED STATOR IRON CORE SEGMENTS	739
<i>Du, Y. ; Sun, Y. ; Zhu, X. ; Cheng, M. ; Xiao, F. ; Sun, Y. ; Zhu, H.</i>	

EY-09 - PARAMETER CALCULATION OF THE HYBRID EXCITATION SYNCHRONOUS MACHINE SYSTEM UTILIZING TOOTH HARMONIC FOR EXCITATION	740
<i>Xia, Y. ; Xu, B. ; Wu, H. ; Liu, J. ; Huang, S.</i>	
EY-13 - IMPROVED ROTOR STRUCTURE DESIGN OF CONCENTRATED FLUX TYPE FERRITE MAGNET MOTOR FOR DUAL CLUTCH TRANSMISSION	741
<i>Kim, J. ; Chai, S. ; Hong, J.</i>	
EY-14 - A NOVEL STRUCTURE OF VERNIER PERMANENT MAGNET MACHINE FOR DIRECT-DRIVEN SYSTEM	742
<i>Wang, Y. ; Fu, W. ; Niu, S. ; Ho, S.L.</i>	
EY-15 - A DOUBLE-SIDED LINEAR FLUX-REVERSAL PERMANENT MAGNET MOTOR WITH SEGMENTAL STATOR FOR LONG-STROKE APPLICATION	743
<i>Du, Y. ; Shen, C. ; Zhu, D. ; Xiao, F.</i>	
EZ-02 - SYNCHRONOUS RELUCTANCE MOTORS PERFORMANCE BASED ON DIFFERENT ELECTRICAL STEEL GRADES	744
<i>Ibrahim, M.N. ; Sergeant, P. ; Rashad, E.M.</i>	
EZ-03 - SEMI-ANALYTICAL FRAMEWORK FOR SYNCHRONOUS RELUCTANCE MOTOR ANALYSIS INCLUDING FINITE SOFT-MAGNETIC MATERIAL PERMEABILITY	745
<i>Sprangers, R. ; Paulides, J.J. ; Gysen, B.L. ; Lomonova, E.</i>	
EZ-04 - AN OPTIMIZED DECOUPLING WINDING CONNECTION FOR SIX-PHASE SWITCHED RELUCTANCE MOTOR	746
<i>Guan, M. ; Liu, C. ; Han, S. ; Dai, S. ; Zhou, C.</i>	
EZ-05 - SIMPLIFIED MODEL-FREE PREDICTIVE CURRENT CONTROL FOR SYNCHRONOUS RELUCTANCE MOTOR DRIVE SYSTEMS	747
<i>Lin, C. ; Yu, J. ; Yu, H. ; Lo, Y.</i>	
EZ-06 - DESIGN OF NOVEL AXIAL FLUX DUAL STATOR DOUBLY FED RELUCTANCE MACHINE	748
<i>Khaliq, S. ; Modarres, M. ; Lipo, T.A. ; Kwon, B.</i>	
EZ-07 - MAGNET ARRANGEMENT IN NOVEL FLUX-MODULATING SYNCHRONOUS MACHINES WITH PERMANENT-MAGNET EXCITATION	749
<i>Fukami, T. ; Ueno, Y. ; Shima, K.</i>	
EZ-08 - COMPARATIVE ANALYSIS ON VARIABLE SYNRM ACCORDING TO GEOMETRIC STRUCTURE BY NUMERICAL ANALYSIS AND EXPERIMENTATION	750
<i>Lee, J. ; Kim, Y. ; Lee, J.</i>	
EZ-09 - FIELD PATH DESIGN ASSESSMENTS OF A HIGH-PERFORMANCE SMALL-POWER SYNCHRONOUS-RELUCTANCE MOTOR	751
<i>Liu, C. ; Luo, T. ; Hwang, C. ; Chang, B.</i>	
EZ-10 - OPTIMUM DESIGN OF AXIALLY LAMINATED SYNCHRONOUS RELUCTANCE MOTOR, CONSIDERING CENTRIFUGAL FORCE AND MAGNETIC SATURATION USING FEM AND RSM	752
<i>Lee, J. ; Kim, Y. ; Kim, D. ; Lee, J.</i>	
EZ-11 - ELECTROMAGNETIC DESIGN OF BILATERAL SWITCHED RELUCTANCE LINEAR MOTOR	753
<i>Chen, H. ; Wang, Q. ; Yan, W.</i>	
EZ-12 - ROTOR RESONANCES OF BEARINGLESS SWITCHED RELUCTANCE MOTOR WITH AXIAL BIAS PERMANENT MAGNET	754
<i>Wang, H. ; Tang, S. ; Xue, B.</i>	
EZ-13 - MODELING OF A SWITCHED RELUCTANCE MOTOR UNDER STATOR WINDING FAULT CONDITION	755
<i>Chen, H. ; Yan, W. ; Wang, Q. ; Lu, S. ; Chen, Z.</i>	
EZ-14 - DESIGN AND ANALYSIS OF A DIRECT-DRIVE TWO DIMENSIONAL HYBRID-FLUX PLANAR MACHINE	756
<i>Pan, J. ; Zhang, B. ; Or, S.</i>	
EZ-15 - STIFFNESS ANALYSIS FOR BEARINGLESS SWITCHED RELUCTANCE MOTOR WITH BIAS PERMANENT MAGNET	757
<i>Xue, B. ; Wang, H. ; Tang, S.</i>	
EZ-16 - OPTIMIZATION OF SUSPENDING FORCE FOR NOVEL BEARINGLESS SWITCHED RELUCTANCE MOTOR	758
<i>Xue, B. ; Wang, H. ; Tang, S.</i>	
FA-02 - IMPLICATIONS OF INTERFACIAL MAGNETIZATION FOR OXIDE SPINTRONICS	759
<i>Liu, Y.</i>	
FA-04 - PROPERTIES OF SINGLE RuO₂ LAYER EMBEDDED IN SrTiO₃	760
<i>Harada, T. ; Hughes, C.R. ; Ashoori, R. ; Boris, A.V. ; Hilgenkamp, H. ; Holtz, M.E. ; Li, L. ; Mannhart, J. ; Muller, D.A. ; Schlom, D.G. ; Soukiasian, A. ; Wang, X.R. ; Boschker, H.</i>	
FA-05 - CONTROLLING EMERGENT FERROMAGNETISM AT OXIDE INTERFACES	761
<i>Grutter, A.</i>	
FB-01 - QUANTIFYING THE INTERFACIAL DZIALOSHINSKII-MORIYA INTERACTIONS FROM SPIN-WAVES	762
<i>Nembach, H.T.</i>	
FB-02 - EFFECTS OF DZIALOSHINSKII-MORIYA INTERACTION ON THE SPIN TRANSFER MAGNETIZATION SWITCHING IN MAGNETIC TUNNEL JUNCTIONS	763
<i>Sampaio, J. ; Khvalkovskiy, A.V. ; Kuteifan, M. ; Cubukcu, M. ; Apalkov, D. ; Lomakin, V. ; Cros, V. ; Reyren, N.</i>	

FB-03 - DESIGN AND FABRICATION OF NANOMAGNETIC MAJORITY LOGIC GATE BASED ON SPIN HALL ASSISTED SWITCHING	764
<i>Smith, A.K. ; Jamali, M. ; Hickox-Young, D. ; Zhao, Z. ; Wang, J.</i>	
FB-05 - COMPLEMENTARY SPINTRONIC LOGIC WITH SPIN HALL EFFECT DRIVEN MAGNETIC TUNNEL JUNCTION	765
<i>Kang, W. ; Wang, Z. ; Zhang, Y. ; Ravelosona, D. ; Zhao, W.</i>	
FB-07 - OPTIMISED CIRCUIT CONFIGURATION FOR STT-MTJ LOGIC DEVICES	766
<i>Loy, D. ; Goolaup, S. ; Lew, W.</i>	
FB-08 - SPIN-ORBITRONICS MEMORY DEVICE WITH MATCHING AND SELF-REFERENCE FUNCTIONALITY	767
<i>Wang, X. ; Asnaashari, M. ; Keshtbod, P. ; Wang, Z. ; Satoh, K. ; Yen, B.K. ; Huai, Y.</i>	
FB-10 - SPIN DICE (PHYSICAL RANDOM NUMBER GENERATOR USING SPIN TORQUE SWITCHING) AND ITS THERMAL RESPONSE	768
<i>Fukushima, A. ; Yakushiji, K. ; Kubota, H. ; Yuasa, S.</i>	
FC-01 - ALL-OPTICAL CONTROL OF FERROMAGNETIC THIN FILMS AND NANOSTRUCTURES: COMPETITION BETWEEN POLARIZED LIGHT AND APPLIED MAGNETIC FIELD	769
<i>Mangin, S. ; Lambert, C. ; Gottwald, M. ; Steil, D. ; Uhlir, V. ; Hehn, M. ; Malinowski, G. ; Elhadri, M.Salah ; Cinchetti, M. ; Varaprasad, B. ; Takahashi, Y. ; Hono, K. ; Fainman, Y. ; Aeschlimann, M. ; Fullerton, E.E.</i>	
FC-03 - EFFICIENT THERMAL SPIN INJECTION USING COFEAL NANOWIRES AND ITS APPLICATION	770
<i>Kimura, T.</i>	
FC-04 - TRAPPING OF A MAGNETIC SOLITON BY MODIFYING THE BOUNDARY CONDITIONS OF A SYNTHETIC FERRIMAGNETIC SUPERLATTICE	771
<i>Chin, S. ; Fernandez-pacheco, A. ; Welbourne, A. ; Mansell, R. ; Lee, J. ; Petit, D.C. ; Cowburn, R.P.</i>	
FC-06 - STABILIZATION OF HELICAL MAGNETIC STRUCTURES IN THIN MULTILAYERS	772
<i>Dzemiantsova, L. ; Meier, G. ; Rohlsberger, R.</i>	
FC-07 - SPIN ORIENTATION-DEPENDENT ANTIFERROMAGNETIC PROXIMITY EFFECT	773
<i>Li, Q. ; Ding, Z. ; Gu, T. ; Liang, J. ; Luo, Y. ; Zhu, J. ; Li, J. ; Hu, Z. ; Hua, C. ; Lin, H. ; Pi, T. ; Won, C. ; Wu, Y.</i>	
FC-08 - ROOM TEMPERATURE SPIN-POLARIZATION OF EUS BY THIN FERROMAGNETIC MULTILAYERS	774
<i>Goschew, A. ; Pouloupoulos, P. ; Kapaklis, V. ; Wilhelm, F. ; Rogalev, A. ; Fumagalli, P.</i>	
FD-01 - MAGNETOSTRICTION MEASUREMENTS OF L10FE50PT(50-X)PDX THIN FILMS	775
<i>Li, W. ; Zhou, W. ; Lenox, P. ; Seki, T. ; Takanashi, K. ; Jander, A. ; Dhagat, P.</i>	
FD-02 - INDUCED MAGNETOELECTRIC EFFECT DRIVEN BY MAGNETIZATION IN BAFE12O19/P(VDF-TRFE) COMPOSITES	776
<i>Gutierrez, J. ; Lasheras, A. ; Barandiaran, J.M. ; Goncalves, R. ; Martins, P. ; Lanceros-Mendez, S.</i>	
FD-03 - METALLIC GLASS/PVDF MAGNETOELECTRIC ENERGY HARVESTER WORKING UP TO THE RADIOFREQUENCY RANGE	777
<i>Lasheras, A. ; Gutierrez, J. ; Reis, S. ; Sousa, D. ; Silva, M. ; Martins, P. ; Lanceros-Mendez, S. ; Barandiaran, J.M.</i>	
FD-04 - PHASE CONTROL OF MAGNETIC SUSCEPTIBILITY IN MULTIFERROIC COMPOSITES	778
<i>Malkinski, L.M. ; Mcgehee, M. ; Gould, T.</i>	
FD-06 - IDENTIFICATION OF A “THERMODYNAMIC CONSISTENT” MODEL OF MAGNETO-MECHANICAL HYSTERESIS	779
<i>Davino, D. ; Visone, C. ; Cusano, A. ; Filograno, M. ; Pisco, M.</i>	
FD-07 - FERROMAGNETIC SHAPE MEMORY THIN FILMS AND NANODISKS: TUNING PROPERTIES BY THICKNESS, LATTICE MISMATCH AND LATERAL CONFINEMENT	780
<i>Albertini, F. ; Ranzieri, P. ; Campanini, M. ; Chiesi, V. ; Fabbri, S. ; Casoli, F. ; Nasi, L. ; Righi, L. ; Grillo, V. ; Celegato, F. ; Tiberio, P. ; Barrera, G.</i>	
FD-08 - MAGNETIC DOMAINS AND TWIN MICROSTRUCTURE OF SINGLE CRYSTAL NI-MN-GA EXHIBITING MAGNETIC SHAPE MEMORY EFFECT	781
<i>Kopecky, V. ; Jurek, K. ; Kopecek, J. ; Straka, L. ; Seiner, H. ; Heczko, O.</i>	
FD-09 - EFFECT OF HYDROSTATIC PRESSURE ON MARTENSITIC TRANSITION, MAGNETIC AND MAGNETOCALORIC PROPERTIES OF MN RICH MN-NI-SN HEUSLER ALLOY	782
<i>Sharma, J. ; Coelho, A. ; Suresh, K.</i>	
FD-10 - CRYSTAL STRUCTURE AND MAGNETIC TRANSITION IN FE-MN-GA RIBBON	783
<i>Zhang, D. ; Zhang, H. ; Liu, E. ; Wang, W. ; Wu, G. ; Yue, M.</i>	
FD-11 - MAGNETOCALORIC AND HYSTERETIC PROPERTIES OF NI-MN BASED HEUSLER ALLOYS	784
<i>Gottschall, T. ; Skokov, K.P. ; Palacios, E. ; Burriel, R. ; Gutfleisch, O.</i>	
FD-12 - MAGNETIC FIELD-INDUCED ISOTHERMAL ENTROPY CHANGE ACROSS THE MAGNETOSTRUCTURAL TRANSITION IN NI-MN-GA MELT-SPUN RIBBONS	785
<i>Li, Z. ; Valdes, C.Sanchez ; Llamazares, J.L.Sanchez ; Zhang, Y. ; Esling, C. ; Zhao, X. ; Zuo, L.</i>	
FF-01 - FABRICATION AND CHARACTERIZATION OF BIT PATTERNED MEDIA AT 1.5 TDOTS/IN2 AND BEYOND	786
<i>Lee, K.Y. ; Yang, X. ; Xiao, S. ; Hsu, Y. ; Yu, Z. ; Feldbaum, M. ; Steiner, P. ; Wago, K. ; Li, N. ; Kuo, D.</i>	
FF-02 - FORMATION OF FEPT NANOPARTICLE ARRAYS USING NANO HOLE TEMPLATES	787
<i>Abdelgawad, A.M. ; Oberdick, S.D. ; Majetich, S.</i>	
FF-03 - DIRECT GROWTH OF BIT PATTERNED MEDIA — THE TEMPLATE EFFECT	788
<i>Yang, E. ; Liu, Z. ; Arora, H. ; Wu, T. ; Spoddig, D. ; Zhu, F. ; Bedau, D. ; Grobis, M. ; Gurney, B. ; Albrecht, T.</i>	
FF-04 - DETERMINING THE ANISOTROPY OF BIT PATTERNED MEDIA FOR OPTIMAL PERFORMANCE	789
<i>Talbot, J. ; Miles, J. ; Kalezhi, J.</i>	

FF-05 - NUCLEATION AND DYNAMIC SWITCHING OF MAGNETIC VORTICES IN GEOMETRICALLY CONFINED NANODOTS	790
<i>Bi, M. ; Wang, X. ; Zhang, L. ; Lu, H. ; Deng, L. ; Xie, J.</i>	
FF-06 - MULTITRACK RECORDING AND SIMULTANEOUS DETECTION SCHEMES FOR HIGH AREAL DENSITY BIT-PATTERNED MEDIA MAGNETIC RECORDING	791
<i>Saito, H.</i>	
FF-07 - OPTIMAL WRITE HEAD DESIGN FOR PERPENDICULAR MAGNETIC RECORDING	792
<i>Wang, H. ; Katayama, T. ; Chan, K. ; Kanai, Y. ; Yuan, Z. ; Shafidah, S.</i>	
FF-08 - LATERAL SPIN VALVE DEVICE FOR MAGNETIC READER APPLICATIONS FABRICATED BY AN ETCH BACK PROCESS	793
<i>Smith, A.K. ; Stecklein, G. ; Jamali, M. ; Crowell, P.A. ; Wang, J.</i>	
FF-09 - SUPPRESSION OF SPIN PUMPING WITH INSULATING LAYERS	794
<i>Kaiser, C. ; Zheng, Y. ; Diao, Z. ; Mauri, D. ; Leng, Q. ; Mewes, C. ; Khodadadi, B. ; Mewes, T.</i>	
FF-10 - EFFECTIVE REDUCTION OF READER NOISE DEGRADATION IN HARD DISK DRIVES BY THERMAL AGING	795
<i>Wong, P.</i>	
FF-11 - POLYCRYSTALLINE CPP-GMR DEVICES USING <001> TEXTURED CO₂FE(GA_{0.5}GE_{0.5}) HEUSLER ALLOY LAYER AND CONDUCTIVE MG_{0.5}Ti_{0.5}OX BUFFER LAYER	796
<i>Du, Y. ; Furubayashi, T. ; Takahashi, Y. ; Sakuraba, Y. ; Hono, K.</i>	
FG-01 - TRANSMISSION LINES EFFECTS ON CHARGING SYSTEM FOR ON-LINE ELECTRIC VEHICLE SHARING THE SAME CORRIDOR	797
<i>Wen, F. ; Huang, X.</i>	
FG-02 - ANALYSIS ON ELECTROMAGNETIC ENVIRONMENT OF HIGH-SPEED TRAIN	798
<i>Gao, G. ; Chen, P. ; Wu, G.</i>	
FG-04 - SUPPRESSING ELECTROMAGNETIC INTERFERENCE OF POWER CONVERTERS BASED ON 2×2-SCROLL CHAOTIC PWM METHOD	799
<i>Li, H. ; Yang, Z. ; Yang, D. ; Gao, X. ; Lu, J.</i>	
FG-06 - DESIGN AND CHARACTERIZATION OF A NEW FERRITE TOROIDAL PLANAR TRANSFORMER INTEGRATED IN A PRINTED CIRCUIT BOARD (PCB)	800
<i>Salas, R. ; Pleite, J.</i>	
FG-07 - BASIC CONSIDERATION OF WINDING ARRANGEMENT OF AMORPHOUS TRANSFORMERS FOR MW-CLASS DC-DC CONVERTERS	801
<i>Tanaka, H. ; Nakamura, K. ; Ichinokura, O.</i>	
FG-08 - ONLINE MEASUREMENT METHOD OF TRANSFORMER LEAKAGE IMPEDANCE BY USING SYMMETRICAL COUPLING AUXILIARY WINDING	802
<i>Wang, R. ; Xiao, F. ; Zhao, Z. ; Shen, Y.</i>	
FG-09 - HIGH-FREQUENCY PLANAR TRANSFORMER PARAMETER ESTIMATION USING DIFFERENTIAL EVOLUTION	803
<i>Tria, L.R. ; Zhang, D. ; Fletcher, J.</i>	
FG-10 - DC BIAS ELIMINATION AND INTEGRATED MAGNETIC TECHNOLOGY IN POWER TRANSFORMER	804
<i>Chen, Z.</i>	
FG-11 - REMANENCE DETECTION AND LOW-FREQUENCY DEGAUSSING FOR POWER TRANSFORMERS BASED ON MODIFIED J-A MODEL	805
<i>Li, J. ; Li, Z. ; Zhong, X. ; Li, T. ; Gu, Y. ; Zhao, Z. ; Jiang, W. ; Raza, S.A.</i>	
FG-12 - THE HARMONIC SUPPRESSION CHARACTERISTIC ANALYSIS OF PHASE-SHIFTING REACTOR IN RECTIFYING SYSTEM	806
<i>Yuan, D. ; Wang, S. ; Zhang, H. ; Tao, X. ; Zhu, J. ; Guo, Y.</i>	
FH-01 - INFLUENCE OF MATERIAL OF ROTOR END PLATE ON 3-D ELECTROMAGNETIC FIELD AND EDDY CURRENT LOSSES IN END REGION OF HYDRO-GENERATOR	807
<i>Liang, Y. ; Yu, H. ; Bian, X. ; Wu, L. ; Gao, L.</i>	
FH-02 - ANALYTICAL ASSESSMENT OF OPTIMUM MAGNET POLE-ARC FOR PMSM UNDER INFLUENCE OF DIFFERENT MAGNETIZATION PATTERNS	808
<i>Tiang, T. ; Ishak, D. ; Lim, C. ; Kamarol, M.</i>	
FH-03 - MAGNETIC FIELD ANALYSIS OF A NOVEL DOUBLE STATOR LINEAR-ROTARY PERMANENT MAGNET MOTOR	809
<i>Xu, L. ; Lin, M. ; Fu, X.</i>	
FH-04 - NONLINEAR MODELING OF ELECTROMAGNETIC FORCES FOR THE PLANAR SWITCHED RELUCTANCE MOTOR	810
<i>Cao, G. ; Li, L. ; Huang, S. ; Li, L. ; Qian, Q. ; Duan, J.</i>	
FH-05 - EFFECTS OF LASER CUT ON THE PERFORMANCE OF PERMANENT MAGNET ASSISTED SYNCHRONOUS RELUCTANCE MACHINES	811
<i>Lazari, P. ; Wang, J. ; Atallah, K.</i>	
FH-06 - INFLUENCE OF CAN MATERIALS ON ELECTROMAGNETIC FIELD OF DOUBLE CANNED INDUCTION MOTOR	812
<i>Liang, Y. ; Gao, L. ; Wang, D. ; Yu, H.</i>	
FH-08 - TORQUE RIPPLE ANALYSIS WITH CURRENT HARMONICS IN PERMANENT-MAGNET SYNCHRONOUS MACHINES	813
<i>Chen, Z.</i>	

FH-09 - THE ROLE OF THE EFFECT OF MANUFACTURING TOLERANCES ON A TUBULAR LINEAR FERRITE MOTOR	814
<i>Cipriani, G. ; Di Dio, V. ; Corpora, M. ; Franzitta, V. ; Curto, D. ; Trapanese, M.</i>	
FH-10 - 2D FINITE ELEMENT MODELLING APPROACH FOR AXIAL FLUX PERMANENT MAGNET SYNCHRONOUS MOTORS	815
<i>Gulec, M. ; Aydin, M.</i>	
FH-11 - THE INFLUENCE OF TRANSPOSITION ANGLE ON THREE-DIMENSIONAL GLOBAL DOMAIN MAGNETIC FIELD OF STATOR BAR IN WATER-COOLED TURBO-GENERATOR	816
<i>Liang, Y. ; Wu, L. ; Bian, X. ; Yu, H.</i>	
FH-12 - A FERRITE TUBULAR LINEAR MOTOR (FTLM): ANALYSIS AND DESIGN	817
<i>Di Dio, V. ; Cipriani, G. ; Corpora, M. ; Curto, D. ; Trapanese, M.</i>	
FP-01 - THE MULTIFERROIC PROPERTIES OF BIFEO3-NA0.5BI0.5TIO3 SOLID SOLUTION CERAMICS	818
<i>Xu, Z. ; Luo, L. ; He, M. ; Shen, K. ; Du, J. ; Xu, Q.</i>	
FP-06 - NON-VOLATILE SWITCHING OF MAGNETISM FOR RECONFIGURABLE MICROWAVE DEVICES	819
<i>Liu, M. ; Zhu, M. ; Xue, X. ; Ren, W.</i>	
FP-07 - THE VOLATILE AND NONVOLATILE MAGNETIZATION SWITCHING OF CONI THIN FILMS MANIPULATED BY ELECTRIC-FIELD	820
<i>Jin, T.L. ; Cao, J. ; Hao, L. ; Liu, M. ; Wang, Y. ; Wu, D. ; Wei, F.</i>	
FP-08 - RESISTIVE SWITCHING IN AU/BIFEO3/LA0.6SR0.4MNO3 HETEROSTRUCTURES	821
<i>Feng, L. ; Yang, S. ; Zhang, D. ; Huang, W. ; Yin, Y. ; Dong, S. ; Zhao, W. ; Li, X.</i>	
FP-09 - FIELD-INDUCED MAGNETOELECTRIC EFFECT IN POLYCRYSTALLINE BA0.5SR1.5CO2FE11AL022 HEXAFERRITE	822
<i>Wu, M. ; Gao, X. ; Liu, Z.</i>	
FP-10 - NEAR-FLAT SELF-BIASED MAGNETOELECTRIC RESPONSE IN THREE-PHASE METGLAS/TERFENOL-D/ PZT LAMINATED COMPOSITES	823
<i>Chen, L. ; Li, P. ; Wen, Y. ; Zhu, Y.</i>	
FP-12 - ELECTRIC-FIELD-CONTROLLED MAGNETIZATION REVERSAL IN A NIFE03/SRRU03/SRTIO3 (111) MULTIFERROIC HETEROSTRUCTURE	824
<i>Wu, S. ; Miao, J. ; Wu, Y. ; Xu, X. ; Jiang, Y.</i>	
FP-13 - INTERFACE CHARGE INDUCED NON-VOLATILE MAGNETIC CHANGES IN LA0.7SR0.3MNO3/PBZR0.2TI0.8O3 MULTIFERROIC HETEROSTRUCTURE	825
<i>Liu, Q. ; Miao, J. ; Wu, Y. ; Xu, X. ; Jiang, Y.</i>	
FP-14 - MULTIFERROIC PROPERTIES IN TETRAGONAL AND RHOMBOHEDRAL PHASE OF BIFEO3/BATIO3 HETEROSTRUCTURES	826
<i>Shao, F. ; Miao, J. ; Wu, Y. ; Xu, X. ; Jiang, Y.</i>	
FP-15 - DUAL-PEAK SELF-BIASED MAGNETOELECTRIC COUPLINGS IN SYMMETRICAL MULTIFERROIC HETEROSTRUCTURES	827
<i>Zhang, J. ; Wang, X. ; Yang, Q. ; Zheng, X. ; Cao, L.</i>	
FP-16 - EFFECT OF ANNEALING TO OXIDATION STATE OF SR2FEMOO6 FILMS WITH DOUBLE PEROVSKITE STRUCTURE	828
<i>Handoko, D. ; Yu, S. ; Oh, S. ; Kim, D. ; Yang, D. ; Demyanov, S. ; Kalanda, N. ; Petrov, A. ; Yarmolich, M.</i>	
FQ-01 - SPINNING DISK TEST STUDY IN DETERMINING THE OPTIMUM WRITERS AND SHINGLED TRACK PITCH FOR SHINGLED WRITE RECORDING	829
<i>Chandrasekaran, S. ; Supnithi, P. ; Warisarn, C.</i>	
FQ-02 - SKEW AND CORNER ANGLE INDUCED ERASE BAND NOISE FOR SHINGLED MAGNETIC RECORDING	830
<i>Xie, G. ; Chen, J. ; Yu, G. ; Cheng, W.</i>	
FQ-03 - ANALYTICAL EXPRESSIONS FOR TRANSITION WIDTH AND TRANSITION JITTER IN GRANULAR PMR MEDIA TAKING ACCOUNT OF SWITCHING FIELD DISTRIBUTION	831
<i>Jin, T. ; Muraoka, H. ; Greaves, S.</i>	
FQ-04 - TWO-TRACK READING WITH A WIDE-TRACK READER FOR SHINGLED TRACK RECORDING	832
<i>Muraoka, H.</i>	
FQ-06 - PERPENDICULAR MAGNETIC ANISOTROPY OF FULL-HEUSLER CO2FEAL0.5SI0.5 FILMS INDUCED BY MGAL2O4 LAYER	833
<i>Li, L. ; Xu, X. ; Wu, Y. ; Wang, Z. ; Miao, J. ; Jiang, Y.</i>	
FQ-08 - SILICON NITRIDE/TETRAHEDRAL AMORPHOUS CARBON BILAYER OVERCOAT FOR EXCEPTIONAL WEAR LIFE OF FUNCTIONAL TAPE HEADS	834
<i>Yeo, R.J. ; Dwivedi, N. ; Tripathy, S. ; Bhatia, C.S.</i>	
FQ-09 - CONSTRUCTION OF QUASI-CYCLIC LDPC CYCLE CODES OVER GALOIS FIELD GF(Q) BASED ON CYCLE ENTROPY AND APPLICATION ON PATTERNED MEDIA STORAGE	835
<i>Liu, X. ; Xiong, F. ; Yin, Y.</i>	
FQ-10 - COPT ANTIDOT ARRAYS FABRICATED WITH DRY-ETCHING USING AAO TEMPLATES	836
<i>Deng, C. ; Qiao, X. ; Wang, F. ; Zeng, H. ; Xu, X.</i>	
FQ-12 - ION-ASSISTED PLASMA ETCH MODELING OF L10 PHASE FEPT MAGNETIC MEDIA FABRICATION WITH EMBEDDED MASK PATTERNING METHOD	837
<i>Zhu, J. ; Quartman, P. ; Wang, J.</i>	
FQ-13 - EFFECT OF MAGNETOSTRICTION ON THE LOW- AND HIGH-FIELD MAGNETIZATION REVERSAL OF RAPIDLY SOLIDIFIED AMORPHOUS NANOWIRES	838
<i>Ovari, T. ; Rotarescu, C. ; Atitoaie, A. ; Chiriac, H.</i>	

FR-01 - 350% MAGNETO-IMPEDANCE RATIO IN THIN-FILM STRUCTURES	839
<i>Fernandez, E. ; Garcia-Arribas, A. ; Svalov, A.V. ; Kurlyandskaya, G.V. ; Barandiaran, J.M.</i>	
FR-02 - OPTIMIZED MAGNETO-IMPEDANCE RESPONSE OF IN-ROTATING-WATER QUENCHED AMORPHOUS WIRES	840
<i>Ovari, T. ; Corodeanu, S. ; Chiriac, H.</i>	
FR-03 - FLEXIBLE MAGNETOIMPIDENCE SENSOR.....	841
<i>Kavaldzhiev, M.N. ; Li, B. ; Kosel, J.</i>	
FR-04 - IMPROVEMENT OF STEPPED MAGNETOIMPEDANCE PROPERTIES BY CONTROLLING DEMAGNETIZING EFFECT	842
<i>Kikuchi, H. ; Kamata, S. ; Oe, S. ; Nakai, T. ; Hashi, S. ; Ishiyama, K.</i>	
FR-07 - MINIATURIZED PLANAR ANTENNA WITH NANOMET POWDER CORES FOR THE VHF BAND APPLICATION	843
<i>Yang, G. ; Zhang, Y. ; Makino, A.</i>	
FR-08 - STUDY ON THE MAGNETICALLY TUNABLE FILTERS BASED ON MN²⁺ AND AL³⁺ CO-DOPED YIG FERRITE.....	844
<i>Zhang, Z. ; Feng, Z. ; Lv, H.</i>	
FR-09 - FEASIBILITY OF SELF-BIASED EDGE MODE ISOLATOR BASED ON HEXAGNAL FERRITE MATERIALS.....	845
<i>Ding, H. ; Chen, F. ; Feng, Z.</i>	
FR-10 - ENHANCED MICROWAVE ABSORPTION OF FLAKE-ORIENTED SENDUST SHEETS BY TAPE-CASTING	846
<i>Li, Q. ; Yan, S. ; Wang, X. ; Feng, Z. ; Chen, Y. ; Harris, V.G.</i>	
FR-12 - DESIGN OF WIDE BANDWIDTH PYRAMIDAL MICROWAVE ABSORBERS WITH FERRITE COMPOSITES OF BROAD MAGNETIC LOSS SPECTRUM.....	847
<i>Park, M. ; Ryu, Y. ; Liu, T. ; Kim, S.</i>	
FS-01 - MAGNETIC VORTICES IN MAGNETIC NANO-CAPS FORMED ON DENSELY PACKED PARTICLE ARRAY	848
<i>Nissen, D. ; Thomas, S. ; Arekapudi, S.S. ; Albrecht, M.</i>	
FS-04 - FERROMAGNETISM IN ZN₁-XMNXO NANOPARTICLES PREPARED BY MECHANICAL MILLING	849
<i>Tien, M.V. ; Ho, T. ; Vuong, N. ; Thanh, T. ; Dang, N. ; Le, A. ; Phan, T. ; Yu, S.</i>	
FS-05 - THE EFFECT OF CATIONIC DISORDER ON LOW TEMPERATURE MAGNETIC PROPERTIES OF MNZN FERRITE NANOPARTICLES	850
<i>Mallesh, S. ; Mutta, V. ; Srinivas, V.</i>	
FS-06 - MANIPULATION OF ELECTRICAL PROPERTIES OF GRAPHENE BY FE₃O₄ NANOPARTICLES.....	851
<i>Zhang, J. ; Zhang, M. ; Wu, Z. ; Wang, X. ; Xu, Y.</i>	
FS-07 - THE SYNTHESIS OF FEPT/FE₃O₄ NANOCOMPOSITE PARTICLES WITH HIGH COERCIVITY	852
<i>He, J. ; Baorui, B. ; Du, J. ; Xia, W. ; Zhang, J. ; Liu, J. ; Yan, A. ; Li, W. ; Guo, Z.</i>	
FS-08 - EFFECT OF SYNTHESIS CONDITIONS ON THE PHYSIOCHEMICAL PROPERTIES OF LAURIC ACID COATED MAGNETITE NANOPARTICLES.....	853
<i>Li, L. ; Leung, C. ; Pong, P.</i>	
FS-09 - ROOM TEMPERATURE FERROMAGNETIC NANOPARTICLES OF GD₅SI₄	854
<i>Hadimani, R.L. ; Harstad, S.M. ; Gupta, S. ; Pecharsky, V.K. ; Balfou, E.A. ; Fu, H. ; Jiles, D.</i>	
FS-11 - TUNNEL MAGNETORESISTANCE IN MAGNETIC TUNNEL JUNCTIONS WITH EMBEDDED NANOPARTICLES	855
<i>Useinov, A. ; Useinov, N. ; Ye, L. ; Wu, T. ; Lai, C.</i>	
FS-12 - PHOSPHINE-FREE SYNTHESIS OF IRON SELENIDE NANOCRYTALS.....	856
<i>He, S. ; Zhang, H. ; Liu, C. ; Yang, C. ; Zeng, H.</i>	
FS-13 - CRITICAL BEHAVIOUR AND MAGNETICALORIC EFFECT IN LA₂NIMNO₆ NANOPARTICLES	857
<i>Tien, M.V. ; Ho, T. ; Thanh, T. ; Phan, T. ; Phan, M. ; Yu, S.</i>	
FS-14 - TAILORING MAGNETIC PROPERTIES IN WELL ORDER MAGNETIC NANOTSTRUCTURES PREPARED BY ALD TECHNIQUE.....	858
<i>Zhang, Y. ; Liu, M. ; Ren, W. ; Zhang, L. ; Ye, Z.</i>	
FS-15 - CITRIC ACID COATED IRON OXIDE NANOPARTICLES — STRUCTURAL AND MAGNETIC PROPERTIES.....	859
<i>Riaz, S. ; Naseem, S. ; Han, X.</i>	
FT-01 - MODULATION EFFECTS OF EX SITU ELECTRIC FIELD ON THE MAGNETIC AND ELECTRIC PROPERTIES IN LA_{0.6}CA_{0.4}MNO₃/PMN-PT BILAYER FILM	860
<i>Zhang, H. ; Ye, Q. ; Tang, L. ; Chen, S. ; Huang, Z. ; Sun, N.</i>	
FT-02 - LARGE ZERO-BIAS FIELD MAGNETOELECTRIC EFFECT IN YFE₀₃-Y₃FE₅O₁₂ COMPOSITES.....	861
<i>Chen, F. ; Zhang, Z. ; Wang, X. ; Ouyang, J. ; Feng, Z. ; Chen, Y. ; Harris, V.G.</i>	
FT-03 - GIANT RESISTIVE SWITCHING EFFECTS IN SYMMETRIC ALL-OXIDE TUNNEL JUNCTIONS WITH LA₂/3SR1/3MNO₃ ELECTRODES	862
<i>Qin, Q. ; Akaslompolo, L. ; Yao, L. ; Majumdar, S. ; Vijayakumar, J. ; Chen, B. ; Van Dijken, S.</i>	
FT-04 - FERROELECTRIC AND FERROMAGNETIC PROPERTIES OF ORDERED DOUBLE PEROVSKITE SUPERLATTICE: PR₂NIMNO₆/LA₂NIMNO₆.....	863
<i>Sun, X. ; Lu, H. ; Hou, Z. ; Dong, C. ; Liu, C. ; Deng, L.</i>	
FT-05 - CORRELATION BETWEEN MAGNETOELECTRIC AND MAGNETIC PROPERTIES OF FERROMAGNETIC-PIEZOELECTRIC STRUCTURES	864
<i>Fetisov, Y.K. ; Chashin, D.V. ; Burdin, D.A. ; Ekonomov, N.A. ; Fetisov, L.Y.</i>	

FT-06 - BEHAVIOR OF ATOMIC DISPLACEMENTS AND MN-MN COUPLING IN YMNO3 SINGLE CRYSTAL	865
<i>Zhou, G. ; Gu, X. ; Peng, J. ; Wu, X.</i>	
FT-07 - MAGNETISM CONTROL OF FEGA/BTO THIN FILMS BY ELECTRIC-FIELD	866
<i>Zhang, B. ; Yang, M. ; Liu, L. ; Zhan, Q. ; Wang, K.</i>	
FT-08 - THE MAGNETIC AUGMENT IN THE NITROGEN SUBSTITUTED BISMUTH FERRITE	867
<i>Chen, L. ; Mao, Z. ; Zhang, J. ; Chen, X.</i>	
FT-09 - CO NANOPARTICLES INDUCED RESISTIVE SWITCHING OF THE POLYPYRROLE COMPOSITE FILMS	868
<i>Xu, Z. ; Gao, M. ; Yu, L. ; Lu, L. ; Xu, X. ; Jiang, Y.</i>	
FT-11 - MAGNETIC CHARACTERIZATION AND LOW-TEMPERATURE HEAT TRANSPORT PROPERTIES OF THE ORTHOFERRITES RFE03(R = RARE EARTH AND Y) SINGLE CRYSTALS	869
<i>Zhang, F. ; Li, S. ; Song, J. ; Shi, J. ; Sun, X.</i>	
FT-13 - ZERO-BIASED MAGNETOELECTRIC EFFECTS IN FIVE-PHASE LAMINATE COMPOSITES WITH FECOV SOFT MAGNETIC ALLOY	870
<i>Xu, X. ; Qiu, J. ; Wen, Y. ; Li, P. ; Chen, H. ; Liu, X.</i>	
FT-14 - VOLTAGE CONTROL OF MAGNETISM IN LAMINATED LIFE5O8/PMN-PT MULTIFERROIC COMPOSITES	871
<i>Hu, Z. ; Chen, X. ; Nan, T. ; Wang, X. ; Gao, Y. ; Wang, Z. ; Srinivasan, G. ; Sun, N.</i>	
FU-03 - MAGNETIZATION BEHAVIOR OF L10-ORDERED FEPT ALLOY THIN FILMS PREPARED ON SINGLE CRYSTALLINE SUBSTRATES	872
<i>Iwama, H. ; Doi, M. ; Shima, T.</i>	
FU-05 - MAGNETIZATION REVERSAL PROCESS STUDY IN EXCHANGE COUPLED SYNTHETIC ANTIFERROMAGNETIC MULTILAYERS AND PATTERNED STRUCTURES	873
<i>Liu, X. ; Ishio, S.</i>	
FU-06 - COMPOSITIONAL CONTROL AND MILLIMETER WAVE PROPERTIES OF MICRO-/NANO-SIZED M-TYPE BARIUM HEXAFERRITE BAFE12O19 SYNTHESIZED BY HYDROTHERMAL METHOD	874
<i>Guo, D. ; Zhou, P. ; Hou, J. ; Wang, X. ; Deng, L.</i>	
FU-08 - EFFECT OF CALCINATION ON STRUCTURAL AND MAGNETIC PROPERTIES OF CO DOPED ZNO NANOSTRUCTUR	875
<i>Bashir, M. ; Ashraf, R. ; Akbar, A. ; Riaz, S. ; Naseem, S.</i>	
FU-09 - ELECTRICAL NONUNIFORMITY AND NON-OHMIC CURRENT-VOLTAGE CHARACTERISTICS IN CO2FESI FILM	876
<i>Huang, X. ; Lu, G. ; Yang, L. ; Huang, L. ; Pan, L.</i>	
FV-01 - ACCELERATING ALGORITHM OF MICROMAGNETIC SIMULATION BY INTERPOLATING MAGNETIZATION VECTORS	877
<i>Ataka, T. ; Furuya, A. ; Shimizu, K. ; Fujisaki, K. ; Uehara, Y. ; Tanaka, T. ; Oshima, H.</i>	
FV-04 - CURRENT-INDUCED DYNAMICS IN A SKYRMION LATTICE	878
<i>Martinez, J.C.</i>	
FV-05 - EFFECTS OF ANISOTROPY ON MAGNETIC PROPERTIES OF AN ORGANIC POLYMER DIAMOND CHAIN	879
<i>Jiang, W. ; Ma, X. ; Guo, A.</i>	
FV-06 - SKYRMION STATE OF EXCHANGE COUPLED CORE-SHELL NANOSTRUCTURE	880
<i>Xia, J. ; Zhang, X. ; Zhao, G. ; Zhou, Y.</i>	
FV-08 - NUMERICAL INVESTIGATION OF THE MAGNETO-DYNAMICS OF SELF-ORGANIZING NANOPARTICLE ENSEMBLES: A HYBRID MOLECULAR AND SPIN DYNAMICS APPROACH	881
<i>Teich, L. ; Schroder, C.</i>	
FV-09 - VORTEX DYNAMICS IN MAGNETIC NANODISKS WITH A RING OF MAGNETIC DEFECTS	882
<i>Chen, S. ; Zheng, Q. ; Zhang, S. ; Zhu, Q. ; Wang, J. ; Liu, Q.</i>	
FV-10 - MICROMAGNETIC SIMULATION OF MAGNETIZATION REVERSAL PROCESS USING MFM IMAGE	883
<i>Hong, Y. ; Zhao, L. ; Wang, G. ; Dechang, Z.</i>	
FV-11 - NARROW MAGNETIC VORTEX DYNAMICS IN EASY-PLANE ANISOTROPY FILMS INDUCED BY SPIN-TRANSFER TORQUE AND SPIN-ORBIT TORQUE	884
<i>Liu, H. ; Buda-Prejbeanu, L. ; Dieny, B.</i>	
FV-13 - LOW CRITICAL CURRENT DENSITY OF MAGNETIC SPIN VALVE WITH PERPENDICULAR ANISOTROPY	885
<i>Mu, C. ; Xu, J. ; Liu, Q. ; Wang, J.</i>	
FV-14 - A PORTABLE DYNAMICS SWITCHING MODEL FOR PERPENDICULAR MAGNETIC TUNNEL JUNCTIONS CONSIDERING BOTH THERMAL AND PROCESS VARIATIONS	886
<i>Chen, B. ; Cai, K. ; Han, G. ; Lim, S. ; Tran, M.</i>	
FW-01 - CIRCULAR HOLE PUNCHED ON A MAGNETIC CIRCUIT USED IN MICROSPEAKERS TO REDUCE FLUX LEAKAGE	887
<i>Xu, D. ; Lu, H. ; Kwon, J. ; Hwang, S.</i>	
FW-04 - MAGNETIC AND MAGNETO-MECHANICAL VIBRATION PROPERTIES OF NON-ORIENTED ELECTRICAL STEEL	888
<i>Jen, S. ; Lin, Y. ; Hsu, C. ; Lin, K.</i>	
FW-06 - INFLUENCE FOR TEMPERATURE RISE BY RELATED FACTORS OF CASING FOR SURFACE PERMANENT MAGNET SYNCHRONOUS MOTORS	889
<i>Ding, S. ; Wang, M.</i>	

FW-07 - PREDICTION OF CHARACTERISTICS FOR HIGH POWER PERMANENT MAGNET SYNCHRONOUS MOTOR WITH MULTI PHASE UNITS	890
<i>Jiang, X. ; Tian, Y. ; Li, Y. ; Li, W.</i>	
FW-08 - FLUID FLOW ANALYSIS OF FAN-COOLED INDUCTION MOTOR FOR DRIVING APPLICATION BY MEANS OF COMPUTATIONAL FLUID DYNAMICS	891
<i>Ding, S. ; Cui, G. ; Wang, H. ; Deng, Y.</i>	
FW-09 - A NOVEL APPROACH TO ESTIMATE TEMPERATURE OF CONDUCTOR IN CABLE JOINT	892
<i>Ruan, J. ; Liu, C. ; Tang, K. ; Huang, D. ; Zheng, Z. ; Liao, C.</i>	
FW-10 - INVESTIGATION OF HEAT TREATMENT OF GEARS USING A SIMULTANEOUS DUAL FREQUENCY INDUCING HEATING METHOD	893
<i>Yun, D. ; Park, H. ; Koo, J. ; Ham, S. ; Lee, S.</i>	
FW-11 - HEATING PERFORMANCE IMPROVEMENT OF AN INDUCTION HEATING RICE COOKER WITH MAGNETIC FLUX CONCENTRATOR	894
<i>Kim, D. ; So, J. ; Woo, K. ; You, Y. ; Kim, D.</i>	
FW-13 - TRANSIENT THERMAL ANALYSIS OF THE CONICAL ROTOR MOTOR USING LPTN AND FINITE VOLUME METHOD	895
<i>Guo, B. ; Huang, Y. ; Dong, J. ; Zhou, T.</i>	
FW-15 - THREE-DIMENSIONAL FLUID FIELD AND THERMAL FIELD RESEARCH OF SQUIRREL-CAGE INDUCTION MOTORS OPERATING IN BROKEN BAR FAULT	896
<i>Li, Y. ; Xie, Y. ; Wang, Z.</i>	
FX-01 - A LINEAR HYBRID SWITCHED RELUCTANCE MOTOR WITH ZERO COGGING FORCE	897
<i>Zou, Y. ; Or, S. ; Pan, J.</i>	
FX-02 - COMPARISON OF GLOBALLY OPTIMIZED PARTITIONED STATOR SFPM MACHINES WITH DIFFERENT STATOR/ROTOR POLE COMBINATIONS	898
<i>Wu, Z. ; Zhu, Z. ; Evans, D.</i>	
FX-03 - PERFORMANCE ANALYSIS OF A HYBRID LINEAR SWITCHED RELUCTANCE MACHINE	899
<i>Fan, Y. ; Zhang, B.</i>	
FX-04 - 3D EFFECTS OF ROTOR STEP-SKEWS IN PERMANENT MAGNET ASSISTED SYNCHRONOUS RELUCTANCE MACHINES	900
<i>Lazari, P. ; Wang, J. ; Sen, B.</i>	
FX-05 - INVESTIGATION OF A NOVEL ROTOR PERMANENT MAGNET FLUX SWITCHING MACHINE FOR EV AND HEV APPLICATIONS	901
<i>Su, P. ; Hua, W. ; Zhang, G. ; Cheng, M.</i>	
FX-07 - COGGING TORQUE REDUCTION OF AXIAL FIELD FLUX-SWITCHING PERMANENT MAGNET MACHINE BY ROTOR TOOTH NOTCHING	902
<i>Hao, L. ; Lin, M. ; Xu, D. ; Li, N. ; Zhang, W.</i>	
FX-09 - A WINDING-SWITCHING CONCEPT FOR FLUX WEAKENING IN CONSEQUENT MAGNET POLE SWITCHED FLUX MEMORY MACHINE	903
<i>Yang, H. ; Lin, H. ; Zhu, Z. ; Fang, S. ; Huang, Y.</i>	
FX-10 - A TUBULAR SINGLE-PHASE DUAL-STATOR FLUX-SWITCHING PM OSCILLATING GENERATOR WITH SERIES MAGNETIC CIRCUIT	904
<i>Zheng, P. ; Sui, Y. ; Yu, B. ; Cheng, L. ; Wang, W.</i>	
FX-12 - RESEARCH ON ELECTROMAGNETIC VIBRATION AND SUPPRESSION OF PERMANENT MAGNET ASSISTED SYNCHRONOUS RELUCTANCE MOTOR	905
<i>Hu, Y. ; Chen, B. ; Sun, W. ; Shi, J.</i>	
FX-13 - RESEARCH OF PARAMETERS AND ANTI-DEMAGNETIZATION OF RARE-EARTH-LESS PERMANENT MAGNET ASSISTED SYNCHRONOUS RELUCTANCE MOTOR	906
<i>Huang, H. ; Hu, Y. ; Xiao, Y. ; Lyu, H.</i>	
FX-14 - ANALYSIS OF A SKEWED-ROTOR DC-EXCITED FLUX-SWITCHING MACHINE	907
<i>Zhao, G. ; Hua, W. ; Cheng, M.</i>	
FX-15 - A NOVEL COMPLEMENTARY AND MODULAR TUBULAR PERMANENT MAGNET FLUX-SWITCHING MOTOR	908
<i>Wang, X. ; Wei, F.</i>	
FX-16 - NOVEL DUAL-AIRGAP AXIAL FIELD FAULT-TOLERANT FLUX SWITCHING PERMANENT MAGNET MACHINES WITH HIGH TORQUE PERFORMANCE	909
<i>Zhao, W. ; Lipo, T.A. ; Kwon, B.</i>	
FY-01 - DESIGN TRADE-OFF BETWEEN COGGING TORQUE AND TORQUE RIPPLE IN FRACTIONAL SLOT SURFACE-MOUNTED PERMANENT MAGNET MACHINES	910
<i>Wu, D. ; Zhu, Z.</i>	
FY-02 - EFFECT OF AIR GAP BETWEEN PM SEGMENTS ON COGGING TORQUE AND ACOUSTIC NOISE OF BLDC MOTOR	911
<i>Song, J. ; Sung, S. ; Jang, G.</i>	
FY-03 - PARTITIONED STATOR FLUX REVERSAL MACHINES HAVING HALBACH ARRAY PMS	912
<i>Zheng, M. ; Wu, Z. ; Zhu, Z.</i>	
FY-04 - OPTIMAL ROTOR SHAPE DESIGN OF LSPM WITH EFFICIENCY AND POWER FACTOR IMPROVEMENT USING RESPONSE SURFACE METHODOLOGY	913
<i>Saha, S. ; Cho, Y.</i>	
FY-05 - A NOVEL HALF-TYPE PERMANENT MAGNET STRUCTURE OF IPM BLDC MOTOR	914
<i>Sim, Y. ; Niguchi, N. ; Hirata, K.</i>	

FY-06 - LOSS CALCULATION AND THERMAL ANALYSIS OF SURFACE-MOUNTED PM MOTOR AND INTERIOR PM MOTOR	915
<i>Zhao, N. ; Liu, W.</i>	
FY-07 - A NOVEL TECHNIQUE OF COGGING TORQUE REDUCTION IN MASS-PRODUCED SURFACE-MOUNTED PERMANENT MAGNET MOTOR USING TOOTH NOTCHING PAIRING	916
<i>Ren, W. ; Xu, Q.</i>	
FY-08 - DESIGN AND ANALYSIS OF A NOVEL TWO PHASE BLDC MACHINE AVOIDING DEMAGNETIZATION	917
<i>Yazdan, T. ; Lipo, T.A. ; Kwon, B.</i>	
FY-11 - 2-DIMENSIONAL ANALYSIS APPROACH METHOD OF OUTER-ROTOR TYPE BRUSHLESS DC MOTOR CONSIDERING 3-DIMENSIONAL EFFECT OF HOUSING	918
<i>Seo, M. ; Lee, T. ; Kim, Y. ; Jung, S.</i>	
FY-13 - MAGNETIC FIELD ANALYSIS OF IRREVERSIBLE DEMAGNETIZATION IN BRUSHLESS DC MOTOR ACCORDING TO THE DYNAMIC AND STATIC CHARACTERISTIC	919
<i>Kim, H. ; Hur, J.</i>	
FY-14 - FAULT DETECTION OF IRREVERSIBLE DEMAGNETIZATION BASED ON SPACE HARMONICS ACCORDING TO EQUIVALENT MAGNETIZING DISTRIBUTION	920
<i>Kang, D. ; Kim, H. ; Hur, J.</i>	
FY-15 - STATOR INTER-TURN FAULT DETECTION OF BLDC MOTOR USING THIRD HARMONIC ACCORDING TO ASYMMETRIC MAGNETIC FIELDS	921
<i>Lee, S. ; Hur, J.</i>	
FY-16 - ANALYSIS OF THE ELECTROMAGNETIC TORQUE AND THE EFFECTIVE WINDING INDUCTANCE OF A SURFACE-MOUNTED PMSM UNDER INTEGRATED BATTERY CHARGING OPERATION	922
<i>Lai, C. ; Kar, N.C.</i>	
FZ-01 - ASYMMETRY V-SHAPE ROTOR CONFIGURATION OF AN INTERIOR PERMANENT MAGNET MACHINE FOR IMPROVING TORQUE CHARACTERISTICS	923
<i>Ren, W. ; Xu, Q.</i>	
FZ-02 - COMPARISON OF WINDING ARRANGEMENTS OF A LINEAR STATOR PERMANENT MAGNET VERNIER MACHINE	924
<i>Du, Y. ; Zou, C. ; Cheng, M. ; Chau, K. ; Xiao, F.</i>	
FZ-04 - A VARIABLE FLUX AXIAL FIELD PERMANENT MAGNET SYNCHRONOUS MACHINE WITH A NOVEL MECHANICAL DEVICE	925
<i>Liu, X. ; Wang, M. ; Chen, D. ; Xie, Q.</i>	
FZ-05 - MULTI-OBJECTIVE OPTIMIZATION DESIGN OF A PM-LESS SYNCHRONOUS MOTOR USING SIMPLIFIED RESPONSE SURFACE METHOD	926
<i>Gaing, Z. ; Chi, Y. ; Huang, M.</i>	
FZ-06 - DESIGN OF AN AXIAL-FLUX TYPE PERMANENT-MAGNET GENERATOR	927
<i>Ishikawa, T.</i>	
FZ-07 - TORQUE RIPPLE REDUCTION OF INTERIOR PERMANENT-MAGNET SYNCHRONOUS MOTOR BY POLE-SHOE SHAPING AND SKEWING	928
<i>Huang, X. ; Zhang, J.</i>	
FZ-09 - A NOVEL STRUCTURE OF BRUSHLESS DOUBLY-FED MACHINE WITH PERMANENT MAGNETS	929
<i>Chen, X. ; Wang, X. ; Wei, Z.</i>	
FZ-10 - EFFECTS OF NOVEL SKEWED ROTOR IN SQUIRREL-CAGE INDUCTION MOTOR ON ELECTROMAGNETIC FORCE AND VIBRATION CHARACTERISTICS	930
<i>Wang, L. ; Bao, X. ; Di, C. ; Li, J.</i>	
FZ-12 - DESIGN AND ANALYSIS OF FRACTIONAL SLOT DIRECT DRIVE MOTOR WITH LOW SPEED AND HIGH TORQUE	931
<i>Wang, X. ; Wu, J.</i>	
FZ-13 - 3-DOF OUTER ROTOR ELECTROMAGNETIC SPHERICAL ACTUATOR	932
<i>Nishiura, Y. ; Oya, K. ; Hirata, K.</i>	
FZ-14 - RESEARCH ON COMBINED POLE FOR INTERIOR PERMANENT-MAGNET MACHINE	933
<i>Zheng, P. ; Lin, Z. ; Sui, Y.</i>	
FZ-15 - OPTIMIZATION OF COGGING TORQUE AND BACK-EMF FOR A 16-POLE/24-SLOT IPM MACHINE	934
<i>Li, J. ; Zou, J. ; Xu, Y.</i>	
FZ-16 - THE EFFECT OF MAGNET DEPTH ON MAGNET EDDY CURRENT LOSS IN 16-POLE/24-SLOT IPM MACHINES	935
<i>Li, J. ; Zou, J. ; Xu, Y.</i>	
GA-01 - RECENT PROGRESS IN DOMAIN WALL MOTION IN ARTIFICIALLY ENGINEERED RACETRACKS DRIVEN BY SPINORBIT TORQUES	936
<i>Parkin, S.</i>	
GA-02 - THREE-TERMINAL SPINTRONICS MEMORY DEVICES WITH PERPENDICULAR ANISOTROPY	937
<i>Ohno, H. ; Fukami, S.</i>	
GA-03 - VOLTAGE CONTROLLED MAGNETISM IN 3D TRANSITIONAL METALS	938
<i>Bi, C. ; Liu, Y. ; Newhouse-Illige, T. ; Xu, M. ; Freeland, J. ; Mryasov, O.N. ; Zhang, S. ; Velthuis, S.G.Te ; Wang, W.</i>	

GA-05 - ELECTRIC-FIELD-CONTROLLED MRAM USING VOLTAGE CONTROL OF MAGNETIC ANISOTROPY: PROGRESS, SCALING, AND CHALLENGES	939
<i>Khalili, P. ; Wang, K.L.</i>	
GB-01 - MULTIFERROIC BIFEO3 FOR CONDUCTANCE CONTROL AT THE LAALO3/SRTIO3-INTERFACE.....	940
<i>Mix, C. ; Finizio, S. ; Khanjani, M.Vafae ; Guo, E. ; Klauel, M. ; Jakob, G.</i>	
GB-05 - GIANT SPONTANEOUS HALL EFFECT IN ZERO-MOMENT MN2RUXGA.....	941
<i>Thiyagarajah, N. ; Lau, Y. ; Betto, D. ; Borisov, K. ; Coey, J. ; Stamenov, P.S. ; Rode, K.</i>	
GB-06 - HALF-METALLIC ELECTRONIC STRUCTURE OF CO2(MN, FE)SI ELECTRODES INVESTIGATED THROUGH TUNNELING SPECTROSCOPY FOR FULLY EPITAXIAL MAGNETIC TUNNEL JUNCTIONS	942
<i>Moges, K. ; Liu, H. ; Kawami, T. ; Uemura, T. ; Yamamoto, M.</i>	
GB-07 - INVERSE MAGNETORESISTANCE IN SINGLE LAYER FE3O4 FILM.....	943
<i>Liu, E. ; Zhang, W. ; Hu, X. ; Du, R. ; Ou, H. ; Kou, C. ; Wang, Y. ; Zhai, Y. ; Du, J. ; Xu, Y. ; Zhai, H.</i>	
GB-08 - ROOM TEMPERATURE MAGNETIC TRANSITION IN TERNARY NEODYMIUM COBALT GERMANIUM 1:2:2 TYPE INTERMETALLICS	944
<i>Guo, Y.</i>	
GB-09 - BIAS-DEPENDENT ELECTRICAL SPIN GENERATION IN FE3SI/GAAS: CONSISTENT BEHAVIOR IN THE THREE-TERMINAL, NON-LOCAL, AND LOCAL SPIN VALVE GEOMETRIES	945
<i>Manzke, Y. ; Bruski, P. ; Herfort, J. ; Ramsteiner, M.</i>	
GB-11 - TEMPERATURE DEPENDENCE OF SPIN-DEPENDENT TUNNELING RESISTANCES OF CO2MNSI-BASED AND CO2(MN, FE)SI-BASED MAGNETIC TUNNEL JUNCTIONS SHOWING HIGH TUNNELING MAGNETORESISTANCES.....	946
<i>Hu, B. ; Liu, H. ; Kawami, T. ; Moges, K. ; Honda, Y. ; Uemura, T. ; Yamamoto, M.</i>	
GB-12 - MINORITY BAND GAP AND MAGNETIC PROPERTIES OF CO2(Fe, Mn)Z (Z=A1, Ga, Si, Ge) IN THE CONTEXT OF CPP-GMR TRANSPORT	947
<i>Faleev, S. ; Okatov, S. ; Mryasov, O.N.</i>	
GC-01 - MASK-LESS FABRICATION OF AREAL DENSITY TUNABLE MAGNETIC NANOPARTICLES WITH ANNEALING OF COFEB/CU BILAYER THIN FILM: UTILIZING GRAIN BOUNDARY DIFFUSION	948
<i>Xie, T. ; Gomez, R.</i>	
GC-04 - ADJUSTING THE MAGNETIC PROPERTIES OF Ni0.5Zn0.5Fe2O4 THIN FILM FOR HIGH FREQUENCY APPLICATIONS BY INTRODUCING Fe65Co35 ALLOY NANOCLUSTERS	949
<i>Wang, J. ; Wang, L. ; Chen, Y. ; Peng, D.</i>	
GC-05 - SYNTHESIS OF MONO DISPERSE MAGNETIC NANOPARTICLES PREPARED ON BLOCK COPOLYMER TEMPLATES FOR MEDICAL IMAGING TECHNIQUES.....	950
<i>Morcrette, M. ; Tallegas, S. ; Joisten, H. ; Ortiz, G. ; Tiron, R. ; Baron, T. ; Lequien, S. ; Hou, Y. ; Bsiesy, A. ; Dieny, B.</i>	
GC-06 - MAGNETIC PROPERTIES OF CO3O4 NANOPARTICLES FABRICATED BY CHEMICAL SYNTHESIS	951
<i>Chaturvedi, A. ; Suzuki, T. ; Duggan, J.N. ; Roberts, C.B.</i>	
GC-07 - MAGNETIC PROPERTIES OF N AND (CR, N)-DOPED TiO2 NANOPARTICLES	952
<i>Larumbe, S. ; Gomez-Polo, C.</i>	
GC-08 - SELF-REGULATED MAGNETIC INDUCTION HEATING OF ZN-CO FERRITE NANOPARTICLES.....	953
<i>Gomez-Polo, C. ; Larumbe, S. ; Beato-Lopez, J. ; Mendonca, E. ; De Meneses, C. ; Duque, J.</i>	
GC-09 - FE3O4 NANOPARTICLES AND NANOCOMPOSITES FOR APPLICATIONS IN BIOMEDICINE AND THE ICTS: NANOPARTICLE AGGREGATION, INTERACTION AND EFFECTIVE MAGNETIC ANISOTROPY	954
<i>Allia, P. ; Barrera, G. ; Tiberto, P. ; Nardi, T. ; Leterrier, Y. ; Sangermano, M.</i>	
GC-10 - SPECTRAL STUDY OF OXIDE-SHELL IN CORE-SHELL IRON NANOCLUSTERS	955
<i>Singh, M.Tarsem ; McCloy, J.S. ; Kukkadapu, R. ; Qiang, Y.</i>	
GD-02 - THE SYNTHESIS AND MAGNETIC PROPERTIES OF CO(Fe)PT NANOPARTICLES	956
<i>Du, J. ; Baoru, B. ; Xia, W. ; Zhang, J. ; Yan, A. ; Liu, J.</i>	
GD-03 - INCREASED MAGNETIC MOMENT INDUCED BY LATTICE EXPANSION FROM A-Fe TO A-Fe8N	957
<i>Dirba, I. ; Komissinskiy, P. ; Helbig, T. ; Alff, L. ; Gutfleisch, O.</i>	
GD-04 - ANGULAR DEPENDENCE OF THE PINNING FIELDS FOR HARD/SOFT MULTILAYERS.....	958
<i>Zhao, G. ; Wan, X. ; Xia, J.</i>	
GD-05 - FECO COATING ON SMC05 NANOCHIPS BY A SONOCHEMICAL METHOD.....	959
<i>Poudyal, N. ; Elkins, K.E. ; Gandha, K.H. ; Liu, J.</i>	
GD-06 - THE EFFECTS OF THERMAL GRADIENT AND MAGNETIC FIELD ON THE ANISOTROPY AND MICROSTRUCTURE OF DIRECT CAST ND24CO20FE41B11AL4 MAGNETS	960
<i>Zhao, L. ; Liu, Z. ; Li, W. ; Hong, Y. ; Zhigang, Z. ; Wang, G. ; Yu, H.</i>	
GD-07 - FABRICATION OF PERPENDICULAR MAGNETIC ANISOTROPIC ND-Fe-B BASED THIN FILMS THROUGH ANNEALING ND-Fe-B/ND-Fe MULTILAYER.....	961
<i>Tian, N. ; Li, Y. ; Hong, F. ; You, C.</i>	
GD-08 - ENHANCED MAGNETIC PROPERTIES AND THERMAL STABILITY OF SMC05/ND2FE14B COMPOSITE MAGNETS BY SPARK PLASMA SINTERING	962
<i>Lu, Q. ; Zhou, C. ; Yue, M.</i>	
GD-10 - ANISOTROPIC NANOCRYSTALLINE ND-Fe-B BASED MAGNETS PRODUCEDBY SPARK PLASMA SINTERED TECHNIQUE	963
<i>Liu, S. ; Kang, N. ; Feng, L. ; Yu, J. ; Lee, J.</i>	

GD-11 - MNBI NANOPARTICLES: IMPROVED MAGNETIC PERFORMANCE THROUGH ANNEALING OF AS-SYNTHESIZED NANOPARTICLES	964
<i>Rowe, M.P. ; Skoropata, E. ; Wrocynskij, Y. ; Desautels, R.D. ; Van Lierop, J.</i>	
GD-12 - INVESTIGATION OF SIGNIFICANTLY ENHANCED ELECTROMAGNETIC WAVE ABSORPTION OF HARD-SOFT FERRITE- GRAPHENE NANOCOMPOSITE	965
<i>Panwar, R. ; Singh, D.</i>	
GE-01 - MAGNETOTHERMOELECTRICAL PROPERTIES OF AN INDIVIDUAL MAGNETIC DOMAIN WALL	966
<i>Krzysteczko, P. ; Scarioni, A.Fernandez ; Hu, X. ; Liebing, N. ; Sievers, S. ; Schumacher, H.W.</i>	
GE-02 - MAGNONIC SPIN CURRENTS: LOCALIZATION, PROPAGATION, AND ACCUMULATION	967
<i>Hinzke, D. ; Ritzmann, U. ; Evers, M. ; Muller, C. ; Nowak, U.</i>	
GE-04 - ANOMALOUS NERNST EFFECT IN L10 TYPE MN-GA ALLOY THIN FILMS	968
<i>Mizuguchi, M. ; Inoue, M. ; Mizukami, S. ; Takanashi, K.</i>	
GE-05 - ENERGY DISPERSION OF TUNNEL SPIN POLARIZATION EXTRACTED FROM THERMAL AND ELECTRICAL SPIN CURRENTS VERSUS BIAS VOLTAGE.....	969
<i>Jeon, K. ; Saito, H. ; Yuasa, S. ; Jansen, R.</i>	
GE-08 - ELECTRIC NÉEL TEMPERATURE DETERMINATION OF AN ANTIFERROMAGNETIC INSULATOR FILM	970
<i>Qiu, Z. ; Hou, D. ; Saitoh, E.</i>	
GF-01 - COMPARATIVE STUDY OF MICROMAGNETIC MODELING AND EXPERIMENT IN HEAT-ASSISTED MAGNETIC RECORDING	971
<i>Li, H. ; Alex, M. ; Zhu, J.</i>	
GF-03 - MICROMAGNETIC CALCULATION OF HAMR MEDIA HYSTERESIS LOOP AT EXPERIMENTAL TIME SCALE	972
<i>Zong, F. ; Chernyshov, A. ; Van Ek, J.</i>	
GF-04 - A STUDY OF SNR AND BER IN HEAT ASSISTED MAGNETIC RECORDING (HAMR)	973
<i>Jiao, Y. ; Wang, Y. ; Victoria, R.H.</i>	
GF-06 - TRADEOFF OF WRITE-ABILITY AND ERASE-ABILITY IN OVERWRITE	974
<i>Lin, E.E. ; Bai, D. ; Liu, F. ; Yuan, S.</i>	
GF-07 - CLUSTER CUTTING: A BETTER UNDERSTANDING OF MEDIA NOISE POWER AND ITS PLATEAU VS. LINEAR DENSITY IN PERPENDICULAR RECORDING	975
<i>Zhang, J. ; Arnoldussen, T. ; Duan, S.</i>	
GF-08 - THERMAL STABILITY ANALYSIS ON PATTERN DEPENDENT BER AND SNR DECAY	976
<i>Wang, H. ; Tang, Y. ; Park, J. ; Song, M.</i>	
GF-09 - ROLE OF INTER-GRANULAR EXCHANGE COUPLING IN MICROWAVE-ASSISTED MAGNETIC RECORDING	977
<i>Wang, H. ; Yuan, Z. ; Liu, Z. ; Zhou, T. ; Zhang, M. ; Chan, K.</i>	
GF-10 - PATTERN DEPENDENCY OF TMR SENSOR NOISE	978
<i>Venugopal, V. ; Wu, G. ; Stokes, S.</i>	
GF-11 - MODELING & MEASUREMENT OF TRACK WIDTH INDUCED SPACING LOSS	979
<i>Ang, S. ; Ong, C. ; Yuan, Z.</i>	
GF-12 - MAGNETIZATION REVERSAL BY SPIN ORBIT TORQUE IN A PERPENDICULARLY MAGNETIZED NANOMAGNET: A MICROMAGNETIC STUDY	980
<i>Mikuszzeit, N. ; Boulle, O. ; Buda-Prejbeanu, L. ; Mihai, M.Ioan ; Gaudin, G.</i>	
GG-01 - ON THE DESIGN OF A LINEAR COMPOSITE MAGNETIC DAMPER.....	981
<i>Bissal, A. ; Salinas, E. ; Magnusson, J. ; Engdahl, G.</i>	
GG-02 - DEVELOPMENT OF A NOVEL MINIATURE SHAFTLESS ROTATIONAL MOTOR USING IRON-GALLIUM ALLOY	982
<i>Tan, Y. ; Zu, J. ; Zhang, Z.</i>	
GG-03 - NEW TOPOLOGY OF A FIVE-PHASE WOUND-FIELD DOUBLY SALIENT GENERATOR.....	983
<i>Liwei, S.</i>	
GG-04 - SYSTEMATIC DESIGN METHOD OF PLANAR SWITCHED RELUCTANCE MOTORS	984
<i>Cao, G. ; Zheng, H. ; Huang, S. ; Qiu, H. ; Wu, C. ; Duan, J.</i>	
GG-05 - INVESTIGATION OF A MAGNETIC-FIELD MODULATED BRUSHLESS DOUBLE-ROTOR MACHINE WITH THE SAME POLARITY OF PM ROTOR.....	985
<i>Bai, J. ; Zheng, P. ; Yu, B. ; Cheng, L. ; Zhang, S.</i>	
GG-06 - DESIGN, 2D/3D FE ANALYSIS AND PROTOTYPE OF A DUAL THREE-PHASE INTEGER SLOT PM SYNCHRONOUS MOTOR	986
<i>Demir, Y. ; Aydin, M. ; Aydin, M.</i>	
GG-07 - RESEARCH ON A TUBULAR YOKELESS PM LINEAR MACHINE	987
<i>Sui, Y. ; Zheng, P. ; Yu, B. ; Cheng, L. ; Liu, J.</i>	
GG-08 - NUMERICAL SIMULATION OF FORCES IN AN IRONLESS PLANAR ACTUATOR.....	988
<i>Susin, M.J. ; Filho, A.F.Flores ; Dorrell, D.</i>	
GG-09 - MAGNETIC CIRCUIT ANALYSIS AND PERFORMANCE IMPROVEMENT OF A TUBULAR STAGGERED-TOOTH TRANSVERSE-FLUX LINEAR MACHINE FOR FREE-PISTON ENERGY CONVERTER.....	989
<i>Zheng, P. ; Zhu, S. ; Yu, B. ; Cheng, L. ; Fan, Y.</i>	
GG-10 - DESIGN AND ANALYSIS OF A DUAL STATOR SPOKE TYPE LINEAR VERNIER MACHINE FOR WAVE ENERGY EXTRACTION	990
<i>Khaliq, S. ; Zhao, F. ; Kwon, B.</i>	

GG-11 - INFLUENCE OF EDGE PERMANENT-MAGNET SHAPE ON PERFORMANCE OF AN ARC-LINEAR PERMANENTMAGNET SYNCHRONOUS MACHINE	991
<i>Zhao, J. ; Hu, H. ; Li, B.</i>	
GH-01 - MINIMIZATION OF DETENT FORCE IN A 1 KW LINEAR PERMANENT MAGNET GENERATOR FOR THE CONVERSION OF SEA WAVES ENERGY: NUMERICAL AND EXPERIMENTAL VALIDATION.....	992
<i>Trapanese, M. ; Cipriani, G. ; Curto, D. ; Di Dio, V. ; Franzitta, V. ; Viola, A.</i>	
GH-02 - A MAGNETOSTRICTIVE ELECTRIC POWER GENERATOR FOR ENERGY HARVESTING FROM TRAFFIC: DESIGN AND EXPERIMENTAL VERIFICATION.....	993
<i>Franzitta, V. ; Cipriani, G. ; Di Dio, V. ; Viola, A. ; Trapanese, M. ; Raimondi, F.</i>	
GH-04 - INTEGRATED BRUSHLESS EXCITATION FOR HYBRID EXCITATION SYNCHRONOUS GENERATOR	994
<i>Zhu, S. ; Liu, C. ; Tang, J. ; Hu, Y. ; Gan, X.</i>	
GH-05 - A NOVEL LINE START SYNCHRONOUS RELUCTANCE MOTOR	995
<i>Yeswanth, J.L. ; Uvaraj, G.A. ; Lenin, N.C.</i>	
GH-06 - IRON LOSS ANALYSIS UNDER EXTREME EXCITATION AND VALIDATION BASED ON UPGRADED BENCHMARK MODEL	996
<i>Cheng, Z. ; Behzad, F. ; Liu, Y. ; Fan, Y. ; Zhao, Z. ; Liu, T. ; Han, G. ; Wu, W.</i>	
GH-07 - BEHAVIOR OF IRON LOSS UNDER NON-SINUSOIDAL EXCITATION WITH HIGH HARMONIC CONTENT	997
<i>Chen, W. ; Ma, J. ; Huang, X. ; Fang, Y.</i>	
GH-09 - 3D ANALYTICAL SLOTTING-EFFECT MODEL FOR PREDICTING MAGNET EDDY CURRENT LOSS IN SURFACE MOUNTED PM MACHINES	998
<i>Nair, S.S. ; Wang, J. ; Chin, R. ; Chen, L.</i>	
GH-10 - DESIGN OPTIMIZATION AND EFFICIENCY ANALYSIS OF 12SLOT-10POLE WOUND FIELD FLUX SWITCHING MACHINE	999
<i>Khan, F. ; Sulaiman, E.</i>	
GH-11 - ANALYTICAL CALCULATION OF IRON LOSSES REDUCTION FOR INTERIOR PERMANENT MAGNET SYNCHRONOUS MOTOR	1000
<i>Chai, F. ; Liang, P. ; Pei, Y. ; Cheng, S.</i>	
GH-12 - A 2D-3D HYBRID FEM APPROACH FOR FAST ANALYSIS OF EDDY CURRENT LOSS IN MAGNETS OF PMSM DRIVEN BY A PWM INVERTER	1001
<i>Jiang, X. ; Zeng, Y. ; Li, H.</i>	
GI-03 - MULTIFUNCTIONAL FE5C2 NANOPARTICLES: A PLATFORM FOR MAGNETIC RESONANCE IMAGING, PHOTOACOUSTIC TOMOGRAPHY AND PHOTOTHERMAL THERAPY	1002
<i>Yu, J. ; Hou, Y.</i>	
GI-05 - MAGNETIC FIELD PROJECTOR FOR DEEP BRAIN STIMULATION	1003
<i>Fan, J. ; Wu, T. ; Li, J. ; Li, J. ; Ye, Y. ; Li, X.</i>	
GI-08 - MAGNETO-NANOSENSOR FOR SENSITIVE DETECTION OF OVARIAN CANCER ANTIBODY BIOMARKER ANTI-SELENIUM-BINDING PROTEIN 1	1004
<i>Gani, A. ; Edassery, S. ; Xu, L. ; Lee, J. ; Luborsky, J. ; Wang, S.X.</i>	
GI-11 - MAGNETIC NANOWIRES AND HYPERTHERMIA: HOW GEOMETRY AND MATERIAL AFFECT HEAT PRODUCTION EFFICIENCY	1005
<i>Contreras, M.F. ; Zaher, A. ; Perez, J.E. ; Ravasi, T. ; Kosel, J.</i>	
GP-01 - DIFFUSION BEHAVIORS OBSERVED ON THE SURFACE OF COFEB FILM AFTER THE NATURAL OXIDATION AND THE ANNEALING.....	1006
<i>Sato, S. ; Honjo, H. ; Ikeda, S. ; Ohno, H. ; Endoh, T. ; Niwa, M.</i>	
GP-02 - EFFECT OF DEPOSITION CONDITIONS AND ANNEALING TEMPERATURE ON TUNNEL MAGNETORESISTANCE AND STRUCTURE OF MGO-BASED DOUBLE-BARRIER MAGNETIC TUNNEL JUNCTIONS	1007
<i>Feng, W. ; Fowley, C. ; Bernert, K. ; Sluka, V. ; Kowalska, E. ; Aleksandrov, Y. ; Lindner, J. ; Gan, H. ; Fassbender, J. ; Kunz, A. ; Hubner, R. ; Coey, J. ; Deac, A.</i>	
GP-03 - LARGE INVERSE MAGNETORESISTANCE INDUCED BY ANNEALING EFFECT IN FULLY EPITAXIAL FECO/MGO/ FE MAGNETIC TUNNEL JUNCTIONS	1008
<i>Li, Q. ; Li, S. ; Xu, J. ; Yan, S. ; Ji, Y. ; Miao, G.</i>	
GP-04 - TEMPERATURE DEPENDENCE OF LOW FREQUENCY NOISE IN MAGNETIC TUNNELING JUNCTIONS WITH CO40FE40B20/CO70.5FE4.5SI15B10 COMPOSED FREE LAYER	1009
<i>Yuan, Z. ; Feng, J. ; Guo, P. ; Nakano, T. ; Ali, S. ; Han, X. ; Naganuma, H. ; Ando, Y.</i>	
GP-05 - ELECTRICAL MANIPULATION OF MAGNETIZATION SWITCHING IN CO2FEAL ALLOY BASED MAGNETIC TUNNEL JUNCTIONS WITH IN-PLANE AND PERPENDICULAR MAGNETIZATION.....	1010
<i>Wen, Z. ; Sukegawa, H. ; Kasai, S. ; Inomata, K. ; Mitani, S.</i>	
GP-06 - POSSIBLE EXPLANATION FOR OBSERVED EFFECTIVENESS OF VOLTAGE CONTROLLED ANISOTROPY	1011
<i>Ahmed, R. ; Victora, R.H.</i>	
GP-07 - NON-UNIFORM SPATIAL DISTRIBUTION OF SPIN POLARIZED CURRENT IN PERPENDICULAR MAGNETIC TUNNEL JUNCTION FREE LAYER FOR LOGIC OPERATION	1012
<i>Teoh, H. ; Goolaup, S. ; Engel, C. ; Lew, W.</i>	
GP-08 - HIGH TMR RATIO IN PERPENDICULAR MTJS USING FE-BASED HEUSLER ALLOY FE2CR1-XCOXSI.....	1013
<i>Wang, Y. ; Qiu, J. ; Ji, R. ; Lim, S. ; Han, G. ; Teo, K.</i>	

GP-09 - DEPENDENCE OF SPIN-DEPENDENT TRANSPORT SIGNALS ON MEASUREMENT FREQUENCY IN COFE/MGO/ N+-SI JUNCTIONS.....	1014
<i>Inokuchi, T. ; Ishikawa, M. ; Sugiyama, H. ; Saito, Y.</i>	
GP-10 - THIN FILM EFFECTS IN THE CRYSTALLIZATION OF COFEB AND COFEB-BASED ALLOYS.....	1015
<i>Pellegren, J.P. ; Sokalski, V.M.</i>	
GP-11 - EFFECT OF TA THICKNESS AND ANNEALING TEMPERATURE ON THE PERPENDICULAR MAGNETIC ANISOTROPY IN MTJ STACK WITH COFEB/TA/[CO/PD]N AS TOP ELECTRODE.....	1016
<i>Yuhong, Z. ; Meng, Z. ; Han, G. ; Teo, K.</i>	
GP-12 - INFLUENCE OF DIFFERENT BUFFERS ON MAGNETIC DEAD LAYER, CRITICAL CURRENT AND THERMAL STABILITY IN MAGNETIC TUNNEL JUNCTIONS WITH PERPENDICULAR MAGNETIC ANISOTROPY	1017
<i>Frankowski, M. ; Zywczak, A. ; Czapkiewicz, M. ; Zietek, S. ; Kanak, J. ; Banasik, M. ; Powroznik, W. ; Skowronski, W. ; Checinski, J. ; Wrona, J. ; Stobiecki, T.</i>	
GP-13 - INFLUENCE OF TA BUFFER LAYER THICKNESS ON MAGNETIC PROPERTIES AND MICROSTRUCTURE PARAMETERS OF COFEB AND MGO LAYERS	1018
<i>Kanak, J. ; Wrona, J. ; Banasik, M. ; Zywczak, A. ; Powroznik, W. ; Czapkiewicz, M. ; Stobiecki, T.</i>	
GP-14 - EFFECT OF OVERLAYER MATERIAL AND THICKNESS IN TA/COFEB/MGO/OVERLAYER STRUCTURES.....	1019
<i>Sabino, M. ; Lim, S. ; Tran, M.</i>	
GP-15 - THICKNESS DEPENDENCE OF LOCALIZATION TO THE ANOMALOUS HALL EFFECT IN AMORPHOUS COFEB THIN FILMS.....	1020
<i>Zhu, T.</i>	
GQ-01 - SIMULATION OF L10 FEPT COLUMNAR MICROSTRUCTURE BY USING PHASE FIELD MODEL	1021
<i>Liu, L. ; Ohsasa, K. ; Zhang, L. ; Ishio, S.</i>	
GQ-02 - TETRAGONAL DISTORTION AND PERPENDICULAR MAGNETIC ANISOTROPY OF FECO LAYER IN THE FEPT/ FECO AND FEPT/CU/FECO FILMS	1022
<i>Wang, B. ; Omiya, H. ; Hasegawa, T. ; Nakamura, T. ; Zhang, L. ; Liu, L. ; Ishio, S.</i>	
GQ-03 - ENHANCE PERPENDICULAR MAGNETIC ANISOTROPY OF CO3PT THIN FILM BY INSERTING A PT UNDERLAYER.....	1023
<i>You, T. ; Chen, Y. ; Sun, A.</i>	
GQ-04 - CAPPING C LAYER EFFECTS ON MAGNETIC PROPERTIES AND MICROSTRUCTURE OF FEPT/MOC/CRRU FILMS.....	1024
<i>Tsai, J. ; Fu, S. ; Tseng, Y. ; Li, C.</i>	
GQ-05 - MAGNETIC PROPERTIES AND MICROSTRUCTURE OF FEPT(MOC, C) GRANULAR FILMS	1025
<i>Tsai, J. ; Fu, S. ; Tseng, Y. ; Li, C.</i>	
GQ-06 - MICROMAGNETICS STUDIES OF COX/PT MEDIA WITH INTERFACIAL ANISOTROPY BASED ON VORONOI POLYCRYSTALLINE STRUCTURES	1026
<i>Wang, L. ; Li, J. ; Zhao, Z. ; Wei, D. ; Gao, K.</i>	
GQ-08 - ANISOTROPY-GRADED L10 FEPT(001) MAGNETIC FILM OBTAINED BY GRADED WORKING PRESSURES	1027
<i>Hsu, J. ; Sun, A. ; Lin, Y. ; Kuo, P.</i>	
GQ-09 - EFFECT OF FE UNDER LAYER IN ULTRATHIN FERH FILMS	1028
<i>Barton, C.W. ; Saharan, L. ; Hrkac, G. ; Thomson, T.</i>	
GQ-10 - EFFECT OF CARBON OVERCOAT IMPLANTATION ON THE MAGNETIC AND STRUCTURAL PROPERTIES OF PERPENDICULAR RECORDING MEDIA.....	1029
<i>Piramanayagam, S.N. ; Shakerzadeh, M. ; Varghese, B. ; Tan, H.</i>	
GQ-11 - MICROSTRUCTURE AND MAGNETIC PROPERTIES OF FEPT-MGO GRANULAR THIN FILMS FABRICATED BY CO-SPUTTERING METHOD ON THE SINGLE CRYSTAL MGO SUBSTRATE.....	1030
<i>Qiu, Z. ; Zhao, L. ; Wang, W. ; Liu, Z. ; Liu, J. ; Dechang, Z.</i>	
GQ-12 - INFLUENCE OF RECORDING FIELD DIRECTION ON LINEARITY OF TRANSITION IN HARD DISKS WITH STACKED STRUCTURE	1031
<i>Saitou, H. ; Tomiyama, N. ; Sugita, R.</i>	
GQ-13 - ANISOTROPIC X-RAY MAGNETIC CIRCULAR DICHROISM SPECTRA OF (001) ORIENTED L10-MNGA FILM.....	1032
<i>Oshima, D. ; Tanimoto, M. ; Kato, T. ; Fujiwara, Y. ; Nakamura, T. ; Kotani, Y. ; Tsunashima, S. ; Iwata, S.</i>	
GQ-14 - EFFECT OF TOPOLOGICAL BUMPY SURFACE UNDERLAYER ON COMPOSITIONALLY MODULATED ATOMIC LAYER STACKING FOR HIGH KU CO80PT20 FILM WITH CLOSED-PACKED ORIENTATION	1033
<i>Tham, K. ; Hinata, S. ; Saito, S.</i>	
GR-01 - THE SATURATION MAGNETIZATION STUDY AND FIRST-PRINCIPLES CALCULATION OF FE-SI-AL.....	1034
<i>Cui, Y. ; Li, G. ; Zhang, N. ; Wang, X. ; Xie, J.</i>	
GR-02 - CRITICAL BEHAVIOR IN DOUBLE-EXCHANGE FERROMAGNETS OF PR0.6SR0.4MNO3 NANOPARTICLES	1035
<i>Thanh, T. ; Yu, Y. ; Ho, T. ; Tien, M.V. ; Phan, T. ; Tartakovsky, D. ; Yu, S.</i>	
GR-04 - LEFT-HANDED METASTRUCTURES BASED ON NANOCRYSTALLINE MICROWIRES FOR GHZ SHIELDING APPLICATIONS.....	1036
<i>Ababei, G. ; Olariu, C. ; Lupu, N. ; Chiriac, H.</i>	
GR-05 - FEATURES OF MAGNETIC STATE OF FE-BASED MELT-SPUN ALLOYS UPON HEATING	1037
<i>Kraynova, G. ; Frolov, A. ; Kotvickii, A. ; Kuchma, A.</i>	

GR-06 - MECHANISM OF IMPROVED HIGH-TEMPERATURE MAGNETIC SOFTNESS FOR CO-CONTAINED FINEMET ALLOY	1038
<i>Xu, Y. ; Wang, Z.</i>	
GR-07 - EFFECTS OF SILIDE FORMATION ON THE SURFACE STRACTURE AND MAGNETIC PROPERTIES OF COBALT THIN FILMS ON SIGLE SILICON	1039
<i>Wang, K. ; Zhao, Y. ; Li, G. ; Wu, C. ; Wang, Q. ; He, J.</i>	
GR-08 - PIEZO-VOLTAGE MANIPULATION OF THE MAGNETIZATION AND MAGNETIC REVERSAL IN FE/GAAS	1040
<i>Zhang, B. ; Wang, K. ; Li, Y. ; Zhang, H. ; Yang, M. ; Meng, K. ; Lu, J. ; Zhao, J.</i>	
GR-09 - STUCTURE & PROPERTY EVOLUTION OF THIN FILM SOFT MAGNETIC NANOCOMPOSITES IN THE COFE(B)-SIOX SYSTEM.....	1041
<i>Ohodnicki, P. ; Ambhore, P. ; Pellegren, J.P. ; Kortright, J. ; Mangal, A. ; Sokalski, V.M.</i>	
GR-11 - MICROWAVE MAGNETIC PROPERTY OF EASY-PLANE Y2CO14B PARTICLE COMPOSITE	1042
<i>Li, R. ; Zhang, Y. ; Xu, F. ; Wang, T. ; Li, F.</i>	
GR-12 - HIGH FREQUENCY DYNAMIC MAGNETIC PROPERTIES OF EPITAXIAL FESI THIN FILMS ON (001) MGO	1043
<i>Guo, X. ; Xi, L. ; Li, D. ; Cui, B. ; Li, Y. ; Han, X. ; Wu, K.</i>	
GR-13 - PLD-FABRICATED FE-CO FILMS PREPARED BY USING SMALL SPOT SIZE OF LASER BEAM	1044
<i>Yamashita, A. ; Nakano, M. ; Yanai, T. ; Fukunaga, H.</i>	
GR-14 - FE-NI THIN RIBBONS PREPARED BY AN ELECTROPLATING METHOD	1045
<i>Yanai, T. ; Watanabe, Y. ; Otsubo, M. ; Nakano, M. ; Shimoya, N. ; Fujisaki, K. ; Fukunaga, H.</i>	
GR-15 - ENHANCED ELECTRICAL RESISTIVITY AND SOFT MAGNETIC PROPERTIES IN CA-DOPED FE-B-CU ALLOY RIBBON.....	1046
<i>Zhigang, Z. ; Jiasheng, Z. ; Yu, H. ; Dechang, Z. ; Liu, Z.</i>	
GS-02 - INFLUENCE OF PARTICLE SIZE AND FILLING FACTOR OF Galfenol flakes on sensing performance of magnetostrictive composite transducers	1047
<i>Yoo, B. ; Na, S. ; Pines, D.J.</i>	
GS-03 - THREE INCH DIAMETER BISMUTH-DOPED THULIUM IRON GARNET SINGLE-CRYSTAL FILMS BY LIQUID PHASE EPITAXY FOR MAGNETO-OPTICAL APPLICATIONS	1048
<i>Zhang, D. ; Mei, B. ; Zhang, H. ; Yang, Q. ; Rao, Y.</i>	
GS-04 - MICROSTRUCTURES AND MAGNETIC PROPERTIES OF FE-GA AND FE-GA-V FERROMAGNETIC SHAPE MEMORY ALLOYS	1049
<i>Lin, Y.</i>	
GS-05 - EFFECT OF HIGH MAGNETIC FIELDS ON THE MICROSTRUCTURAL, MAGNETIC AND MAGNETOSTRICTIVE PROPERTIES OF TBFE2 ALLOY DURING SOLIDIFICATION PROCESS	1050
<i>Liu, T. ; Gao, P. ; Wang, Q. ; Dong, M. ; He, J.</i>	
GS-07 - DOPING EFFECT ON THE MARTENSITIC AND MAGNETIC PHASE TRANSITIONS OF HEUSLER-TYPE Ni2MnGa.....	1051
<i>Lue, C. ; Tseng, C. ; Liu, H.</i>	
GS-08 - TENSILE STRAIN EFFECTS ON MAGNETIC PROPERTIES IN HALF-DOPED La0.5Ca0.5MnO3 FILMS.....	1052
<i>Zhang, A. ; Zhou, J. ; Zhang, W. ; Lin, J. ; Wu, X.</i>	
GS-09 - NONRECIPROCAL TE-TM MODE CONVERSION BASED ON PHOTONIC CRYSTAL FIBRE OF AIR-HOLES FILLED WITH MAGNETIC FLUIDS INTO A TERBIUM GALLIUM GARNET FIBRE.....	1053
<i>Otmami, H. ; Bouchemat, M. ; Bouchemat, T. ; Lahoubi, M. ; Wang, W. ; Pu, S.</i>	
GS-10 - MAGNETIC DOMAIN MOTION AND MAGNETOSTRICTION IN THE FE-GA SHEETS	1054
<i>Yuan, C. ; Gao, X. ; Li, J. ; Mu, X. ; Bao, X.</i>	
GS-11 - MAGNETISM AND OPTICAL PROPERTIES OF CO DOPED Sr2RuO4	1055
<i>Gu, X.</i>	
GS-12 - THE INVESTIGATION OF MAGNETOSTRICTION OF DIFFERENT PHASES IN FE-CO ALLOYS.....	1056
<i>Wang, F. ; Dai, X. ; Li, Y. ; Jia, H. ; Wang, X. ; Liu, G.</i>	
GS-13 - ROOM-TEMPERATURE MAGNETOSTRUCTURAL TRANSITION IN Mn0.4Fe0.6NiSi COMPOUND	1057
<i>Li, Y. ; Wei, Z. ; Liu, E. ; Liu, G. ; Luo, H. ; Wang, W. ; Wu, G.</i>	
GS-14 - RELATIONSHIP BETWEEN GRAIN ORIENTATION AND MAGNETOSTRICTIVE PROPERTIES OF Tb-Dy-Fe alloy	1058
<i>Mu, X. ; Wang, C. ; Gao, X.</i>	
GS-15 - OPTICAL PROPERTIES OF Au/MnSb/Au magneto-plasmonic nanostructure for self temperature control device	1059
<i>Saito, S. ; Sasaki, T. ; Takahashi, M.</i>	
GT-03 - L10-ordered MnAl thin films with high perpendicular magnetic anisotropy using tin underlayers on Si substrates	1060
<i>Huang, E.Y. ; Kryder, M.H.</i>	
GT-04 - SILICON BASED NONVOLATILE MAGNETIC MEMRISTOR	1061
<i>Xiong, C. ; Zhang, X. ; Luo, Z. ; Wang, J. ; Chen, J. ; Guo, Z.</i>	
GT-05 - MICROWAVE ASSISTED SPIN TRANSFER TORQUE SWITCHING IN A VERTICALLY INTEGRATED LOGIC-IN-MEMORY ARCHITECTURE	1062
<i>Yu, H. ; Ya, X. ; Tanaka, T. ; Matsuyama, K.</i>	

GT-06 - CURRENT INDUCED DOMAIN WALL MOTION IN PERPENDICULARLY MAGNETIZED ULTRATHIN (CO70FE30/PD) N NANOWIRES	1063
<i>Meng, Z. ; He, S. ; Qiu, J. ; Han, G. ; Teo, K.</i>	
GT-07 - ENHANCEMENT OF SPIN HALL EFFECT-INDUCED TORQUES FOR CURRENT-DRIVEN MAGNETIC DOMAIN WALL MOTION: EXTRINSIC SPIN HALL EFFECT	1064
<i>Do, B. ; Awano, H.</i>	
GT-08 - AN ASSOCIATIVE MEMORY DEVICE USING A MAGNETIC TUNNEL JUNCTION	1065
<i>Suh, D. ; Choi, Y. ; Bae, G. ; Park, W.</i>	
GT-10 - COMPUTER SIMULATION OF DOMAIN WALL MOTION INDUCED BY A SLOPE ELECTRIC FIELD	1066
<i>Murayama, S. ; Yamada, K. ; Nakatani, Y.</i>	
GT-12 - INFLUENCE OF INTERFACIAL DZYALOSHINSKII-MORIYA INTERACTION ON PARAMETRIC AMPLIFICATION OF SPIN WAVES IN ULTRATHIN MAGNETIC FILMS	1067
<i>Verba, R.V. ; Tyberkevych, V. ; Slavin, A.</i>	
GT-14 - MAGNETIC BUBBLECADE MEMORY	1068
<i>Moon, K. ; Kim, D. ; Yoo, S. ; Je, S. ; Chun, B. ; Kim, W. ; Min, B. ; Hwang, C. ; Choe, S.</i>	
GT-15 - NONLINEAR EFFECT ON DIODE-ASSISTED MAGNETORESISTANCE IN SEMICONDUCTORS	1069
<i>Luo, Z. ; Zhang, X. ; Xiong, C. ; Chen, J.</i>	
GU-03 - HIGH COERCIVE MAGNETIC FORCE MICROSCOPY PROBES BY COBALT FERRITE	1070
<i>Liu, X. ; Fukaya, S.</i>	
GU-05 - THE THIRD DIMENSION: VORTEX CORE REVERSAL BY INTERACTION WITH ‘FLEXURE MODES’	1071
<i>Noske, M. ; Stoll, H. ; Fahnle, M. ; Weigand, M. ; Dieterle, G. ; Forster, J. ; Gangwar, A. ; Slavin, A. ; Back, C.H. ; Schutz, G.</i>	
GU-06 - MAGNETIC FIELD-INDUCED DOMAIN WALL MOTION IN CYLINDRICAL NANOWIRES	1072
<i>Wartelle, A. ; Thirion, C. ; Afid, R. ; Jamet, S. ; Da Col, S. ; Cagnon, L. ; Toussaint, J. ; Bachmann, J. ; Bochmann, S. ; Locatelli, A. ; Mentès, T. ; Fruchart, O.</i>	
GU-07 - AUTOMOTIVE DOMAIN WALL PROPAGATION IN FERROMAGNETIC RINGS	1073
<i>Richter, K. ; Mawass, M. ; Krone, A. ; Kruger, B. ; Weigand, M. ; Schutz, G. ; Stoll, H. ; Kläui, M.</i>	
GU-09 - HIGH-FREQUENCY HYSTERESIS CHARACTERIZATION OF SUPERPARAMAGNETIC PARTICLES	1074
<i>Whitaker, C. ; Jansons, A. ; Hutchison, J. ; Jander, A. ; Dhagat, P.</i>	
GU-10 - THE FIELD DOMAIN FMR LINEWIDTH MEASUREMENT BY A MICROSTRIP LINE TRANSMISSION RESONATOR PERTURBATION TECHNIQUE	1075
<i>Sokolov, A.S. ; Chen, Y. ; Harris, V.G.</i>	
GU-11 - IMPROVEMENT OF MEASURED PRECISION ON COMPLEX PERMEABILITY OF MAGNETIC THIN FILMS VIA OPTIMIZING THE POST DATA PROCESSING METHOD	1076
<i>Xiang, O. ; Lu, G. ; Wang, W. ; Pan, L. ; Zhang, H.</i>	
GU-13 - RESEARCH ON THE IN SITU MAGNETIZATION AND DEMAGNETIZATION FOR SCANNING SQUID MICROSCOPY	1077
<i>Liu, X. ; Du, J. ; Wei, Z. ; Song, T.</i>	
GU-15 - CONTROLLING THE ANISOTROPY AND DOMAIN STRUCTURE WITH OBLIQUE DEPOSITION AND SUBSTRATE ROTATION	1078
<i>Chowdhury, N. ; Bedanta, S.</i>	
GU-16 - GRAIN ORIENTATION DISTRIBUTIONS OF POLYCRYSTALLINE CO-FERRITE	1079
<i>Wang, J. ; Yuan, C. ; Li, J. ; Bao, X. ; Gao, X.</i>	
GV-01 - EFFECTIVENESS OF SAFE WORKING PROCEDURE ON SMF EXPOSURE LEVELS AND WORK PERFORMANCES IN 3 T MRI SYSTEM OPERATIONS	1080
<i>Yamaguchi-Sekino, S. ; Sekino, M. ; Nakai, T.</i>	
GV-02 - EVALUATION OF COMPLEX HARMONIC SIGNALS FROM MAGNETIC NANOPARTICLES FOR MAGNETIC PARTICLE IMAGING	1081
<i>Yoshida, T. ; Tsujimura, N. ; Tanabe, K. ; Sasayama, T. ; Enpuku, K.</i>	
GV-03 - STUDY ON NEURAL REGENERATION EFFECT OF RAT BY USING PULSED FUNCTIONAL MAGNETIC STIMULATION	1082
<i>Zhang, N. ; Wang, S. ; Chen, X. ; Shi, Q. ; Li, J. ; Zhu, J. ; Wang, S. ; Yang, B. ; Guo, Y. ; Zhu, J.</i>	
GV-04 - THE INFLUENCE OF EXTREMELY LOW FREQUENCY MAGNETIC FIELD AND MAGNETIC NANOPARTICLE ON Aβ1-40 AGGREGATION IN VITRO	1083
<i>Jia, H. ; Wang, P. ; Song, T.</i>	
GV-06 - 2D TRANSPORT OF SUPERPARAMAGNETIC MICROBEADS ON A FERROMAGNETIC HEXAGONAL NANOLATTICE	1084
<i>Chen, J. ; Gan, W. ; Lew, W.</i>	
GV-07 - DEVELOPMENT OF THREE CHANNEL SQUIDS CONTAMINANT DETECTOR FOR FOOD INSPECTION	1085
<i>Ohtani, T. ; Narita, Y. ; Tanaka, S. ; Ariyoshi, S. ; Suzuki, S.</i>	
GV-08 - CONTROL OF THE FLICKERING LIGHT SENSATION BASED ON SUPERIMPOSED ELECTROMAGNETIC FIELDS	1086
<i>Nakagawa, H. ; Ueno, S.</i>	
GV-09 - LUCIFERIN-LUCIFERASE BIOLUMINESCENT EMITTING IN THE SUSPENSION OF DIAMAGNETICALLY ALIGNED GUANINE MICROCRYSTALS	1087
<i>Miyashita, Y. ; Iwasaka, M.</i>	

GV-14 - WIDE DYNAMIC RANGE SQUID MAGNETOMETER WITH NOISE CANCELLATION FOR MAGNETOCARDIOGRAM WITHOUT MAGNETICALLY SHIELDED ROOM.....	1088
<i>Kobayashi, K. ; Murakami, T. ; Oyama, D.</i>	
GW-01 - COMPARISON OF CHARACTERISTICS BETWEEN AN ELEVATOR EMERGENCY STOP DEVICE WITH A MAGNETIC RHEOLOGICAL FLUID DAMPER AND A CONVENTIONAL DEVICE	1089
<i>Sato, S. ; Uchida, T. ; Nakagawa, T.</i>	
GW-02 - CARBONYL IRON SUSPENSION WITH CORE-SHELL STRUCTURED FE₃O₄@SiO₂ NANOPARTICLE ADDITIVES AND ITS MAGNETORHEOLOGICAL PROPERTY	1090
<i>Piao, S. ; Chae, H. ; Choi, H.</i>	
GW-03 - OCTAHEDRAL SHAPED MAGNETITE NANOPARTICLE ADDED CARBONYL IRON SUSPENSION AND ITS MAGNETORHEOLOGY.....	1091
<i>Kwon, S. ; Jung, H. ; Choi, H.</i>	
GW-05 - STUDY OF MAGNETO-VISCOSITY OF FERROMAGNETIC MNZN-FERRITE FERROFLUID	1092
<i>Thirupathi, G. ; Singh, R.</i>	
GW-06 - POWER GENERATION USING MAGNETIC NANOFLUIDS IN MILLIMETER-SIZED CHANNEL WITH IN-PHASE MODE MAGNETIZATION	1093
<i>Kim, I. ; Lee, J. ; Lee, S. ; Jeong, G. ; Lee, S.</i>	
GW-07 - MAGNETIC SEPARATION AND TRANSFER OF WASTEWATER CONTAMINANTS USING MAGNETIC TRAVELLING WAVE AND MICRO MAGNETIC BEAD	1094
<i>Lee, K. ; Baek, M. ; Cho, E. ; Park, I.</i>	
GW-08 - NUMERICAL ANALYSIS OF ELECTROMAGNETIC FORCE ON MAGNETIC NANOPARTICLES IN FLUID	1095
<i>Fang, F. ; Guan, W.</i>	
GW-10 - SYNTHESIS AND MAGNETO-VISCOSITY OF MN-FERRITE FERROFLUID.....	1096
<i>Singh, R. ; Thirupathi, G.</i>	
GW-12 - MAGNETIC PROPERTIES OF A DOUBLE-LAYERED FILM ON A HONEYCOMB LATTICE	1097
<i>Zhang, F. ; Jiang, W. ; Guo, A. ; Wang, W.</i>	
GW-13 - MORPHOLOGY-CONTROLLED GROWTH OF MAGNETIC IRON OXIDE COMPONENTS ON GOLD NANOPARTICLES AS BI-FUNCTIONAL AGENTS	1098
<i>Li, L. ; Leung, C. ; Ruotolo, A. ; Jiang, C. ; Pong, P.</i>	
GW-14 - FERROMAGNETIC BEHAVIOUR FROM ANIONIC COMPLEXES OF CARBON AND BORON	1099
<i>Rowe, M.P. ; Skoropata, E. ; Desautels, R.D. ; Van Lierop, J.</i>	
GX-03 - DESIGN AND MAGNETIC PROPERTIES OF ELECTRIC VEHICLE WIRELESS CHARGING SYSTEM.....	1100
<i>Tan, L. ; Huang, X. ; Chen, C. ; Wang, W. ; Yan, C.</i>	
GX-04 - MAGNETOSTRICTION AND THE INFLUENCE OF HARMONICS IN MAGNETIZING VOLTAGE IN ELECTRICAL STEEL	1101
<i>Gong, W. ; Zhang, Z. ; He, J. ; Xu, Z. ; Lin, A. ; Hou, R. ; Fan, W. ; Wang, J.</i>	
GX-07 - OBLIQUE INCIDENCE PERFORMANCE OF MICROWAVE ABSORBERS BASED ON MAGNETIC POLYMER COMPOSITES.....	1102
<i>Zhang, L. ; Zhou, P. ; Xie, J. ; Deng, L.</i>	
GX-08 - THE RESEARCH ON ELECTROMAGNETIC AND THERMAL ISSUE OF THE HIGH POWER DENSITY PERMANENT MAGNET SYNCHRONOUS MOTOR BASED ON THERMAL CONDUCTIVITY OPTIMIZATION OF THE ARMATURE END.....	1103
<i>Li, L. ; Zhang, J. ; Zhang, C. ; Yan, H.</i>	
GY-02 - NOVEL HYBRID EXCITATION PERMANENT MAGNET VERNIER MACHINES	1104
<i>Xu, L. ; Liu, G. ; Zhao, W.</i>	
GY-03 - DESIGN AND ANALYSIS OF NOVEL PERMANENT- MAGNET MOTORS WITH HYBRID ROTOR CONFIGURATIONS	1105
<i>Xu, G. ; Guohai, L. ; Zhao, W. ; Chen, Q.</i>	
GY-04 - A NOVEL CONSEQUENT POLE HYBRID MAGNET VERNIER MEMORY MACHINE FOR AUTOMOTIVE APPLICATIONS	1106
<i>Yang, H. ; Lin, H. ; Zhu, Z. ; Huang, Y. ; Fang, S.</i>	
GY-06 - ANALYSIS AND DESIGN OF FSCW SPM MACHINES FOR A GIVEN CONSTANT POWER REGION	1107
<i>Li, J. ; Zou, J. ; Xu, Y.</i>	
GY-07 - A NOVEL AXIAL-FLUX-MODULATED ELECTRIC MACHINE WITH AN IMPROVED STRUCTURE.....	1108
<i>Xie, Y. ; Zhang, Y. ; Lian, G. ; Shao, Y.</i>	
GY-08 - IDENTIFICATION OF ACOUSTICAL NOISE SOURCE FOR ELECTRIC POWER STEERING MOTOR USING FINITE ELEMENT METHOD	1109
<i>Yoo, B. ; Niguchi, N. ; Hirata, K. ; Zaini, A.</i>	
GY-09 - RESEARCH OF STATOR DISPLACEMENT TECHNIQUE IN MULTISTAGE AXIAL-FLUX PERMANENT MAGNET MACHINES	1110
<i>Wei, X. ; Yang, K.</i>	
GY-10 - A NEW GENERAL DESIGN METHOD OF SEGMENTED-ROTOR WOUND FIELD FLUX-SWITCHING MOTORS WITH COMPLEMENTARY MAGNET CIRCUIT	1111
<i>Cao, R. ; Jin, Y. ; Zhang, Y. ; Huang, W.</i>	
GY-11 - A NEW MAGNETIC-FIELD MODULATED BRUSHLESS DOUBLE-ROTOR MACHINE	1112
<i>Bai, J. ; Zheng, P. ; Cheng, L. ; Zhang, S. ; Liu, J.</i>	

GY-12 - OPTIMAL DESIGN OF ROTOR SLOT SHAPE OF INDUTION MOTOR FOR ELECTRIC VEHICLE	1113
<i>Kim, K.</i>	
GY-14 - A NOVEL CO-AXIAL DUAL FLUX-SWITCHING PERMANENT MAGNET MACHINE FOR HYBRID ELECTRIC VEHICLES	1114
<i>Zhou, L. ; Hua, W. ; Chen, M.</i>	
GY-15 - A NEW PERMANENT-MAGNET VERNIER DIRECT-DRIVE IN-WHEEL MOTOR FOR ELECTRIC VEHICLES.....	1115
<i>Li, J. ; Chau, K.</i>	
GZ-01 - ANALYTICAL SYNTHESIS OF AIR-GAP FIELD IN PERMANENT MAGNET MACHINES WITH ROTOR ECCENTRICITY BY SUPERPOSITION METHOD	1116
<i>Li, Y. ; Zhu, Z. ; Li, G. ; Wu, D.</i>	
GZ-02 - NONLINEAR ANALYTICAL MODELING OF HYBRID EXCITATION DOUBLE SIDED LINEAR EDDY CURRENT BRAKE.....	1117
<i>Kou, B. ; Jin, Y. ; Zhang, H. ; Zhang, L. ; Zhang, H.</i>	
GZ-03 - LOSS STUDY OF PERMANENT MAGNET SYNCHRONOUS MOTOR IN VOLTAGE DEVIATION BY FREQUENCY CONVERTER POWER SUPPLY	1118
<i>Ding, S. ; Guan, T. ; Jiang, S.</i>	
GZ-05 - TEMPERATURE PREDICTION STUDY OF CABLE JOINT CONDUCTOR BASED ON THE PSO ALGORITHMS OF BP NEURAL NETWORK.....	1119
<i>Zhou, H. ; Wang, J. ; Liu, K. ; Wang, L.</i>	
GZ-06 - EQUIVALENT CIRCUIT PARAMETERS CALCULATION OF A WOUND ROTOR BRUSHLESS DOUBLY-FED MACHINE BASED ON FINITE ELEMENT ANALYSIS.....	1120
<i>Jia, L.</i>	
GZ-07 - OPTIMUM DESIGN FOR IMPROVING BI-DIRECTIONAL MODULATING EFFECT OF DUAL-PERMANENT-MAGNET-EXCITED MACHINE	1121
<i>Jian, L. ; Wei, J.</i>	
GZ-08 - CHARACTERISTIC ANALYSIS OF WRSM CONSIDERING MAGNETIC SATURATION	1122
<i>Lee, J. ; Hong, H. ; Oh, Y. ; Lee, J.</i>	
GZ-09 - SUBDIVISION-BASED OPTIMAL DESIGN OF MULTI-DIMENSIONAL ELECTROMAGNETIC DEVICES	1123
<i>Ren, Z. ; Shan, Y. ; Zhang, D. ; Zhang, Y.</i>	
GZ-10 - HIGH EFFICIENT PERMANENT MAGNET ACTUATOR DESIGN BY MITIGATING IRREVERSIBLE DEMAGNETIZATION EFFECT.....	1124
<i>Lim, S. ; Min, S. ; Hong, J.</i>	
GZ-11 - ESTABLISHING THE POWER FACTOR LIMITATIONS FOR SYNCHRONOUS RELUCTANCE MACHINES	1125
<i>Wang, Y. ; Ionel, D. ; Dorrell, D.G. ; Stretz, S.</i>	
GZ-12 - STRUCTURE DESIGN AND ANALYSIS OF WINDINGS IN A BEARINGLESS MOTOR	1126
<i>Pan, W. ; Zhu, H.</i>	
GZ-13 - MODELING AND CHARACTERISTIC ANALYSIS OF AN INTEGRATED LINEAR OSCILLATORY COMPRESSOR.....	1127
<i>Zhang, Y. ; Yu, M. ; Ye, Y.</i>	
GZ-15 - A STUDY ON THE DESIGN PARAMETER OF PMSM USING VP-MAP	1128
<i>Lee, K. ; Hong, H. ; Oh, Y. ; Lee, J. ; Lee, J.</i>	
HA-02 - ELECTRIC MANIPULATION OF SKYRMIONS IN METALS AND INSULATORS	1129
<i>Hoffmann, A. ; Jiang, W. ; Upadhyaya, P. ; Yang, Q. ; Yu, G. ; Zhang, W. ; Jungfleisch, M. ; Fradin, F.Y. ; Pearson, J.E. ; Wang, Z. ; Wong, K.L. ; Akyol, M. ; Chang, L. ; Lang, M. ; Fan, Y. ; Wen, Q. ; Zhang, H. ; Schwartz, R.N. ; Tserkovnyak, Y. ; Wang, K.L. ; Heinonen, O. ; Velthuis, S.G.Te</i>	
HA-03 - INDIVIDUAL SKYRMIONS IN HELIMAGNETS.....	1130
<i>Zang, J.</i>	
HA-04 - MAGNETOELECTRIC SKYRMIONS IN MULTIFERROICS	1131
<i>Seki, S.</i>	
HA-05 - DYNAMICS OF TOPOLOGICAL SPIN STRUCTURES	1132
<i>Klaeui, M.</i>	
HB-01 - MAGNONICS IN VIEW OF APPLICATIONS IN LOGIC	1133
<i>Chumak, A.</i>	
HB-02 - RASHBA-EFFECT INDUCED CHIRAL MAGNETIC DOMAIN-WALL RESISTANCE	1134
<i>Yin, Y. ; Kim, J. ; Han, D. ; Lavrijsen, R. ; Van Den Brink, A. ; Lee, K. ; Lee, H. ; Kim, K. ; Swagten, H. ; Koopmans, B.</i>	
HB-04 - ASYMMETRIC DOMAIN-WALL DEPINNING INDUCED BY DZYALOSHINSKII MORIYA INTERACTION	1135
<i>Ummelen, F. ; Han, D. ; Kim, J. ; Swagten, H. ; Koopmans, B.</i>	
HB-07 - DOMAIN WALLS IN THERMAL GRADIENTS — ENTROPIC TORQUE AND ANGULAR MOMENTUM TRANSFER.....	1136
<i>Hinzke, D. ; Schlickeiser, F. ; Yanes-Diaz, R. ; Ritzmann, U. ; Selzer, S. ; Nowak, U.</i>	
HB-08 - DETERMINISTIC GENERATION OF SINGLE DOMAIN WALL IN FERROMAGNETIC NANOWIRE USING LOCAL OERSTED FIELD	1137
<i>Guite, C. ; Kerk, I. ; Murapaka, C. ; Maddu, R. ; Sarjoosing, G. ; Lew, W.</i>	
HB-10 - METASTABLE MAGNETIC DOMAIN IN BIFURCATED NANOWIRE NETWORK PROBED BY DOMAIN WALL MAGNETORESISTANCE.....	1138
<i>Kwon, J. ; Kerk, I. ; Lim, G. ; Murapaka, C. ; Goolaup, S. ; Chang, C. ; Lew, W.</i>	

HC-01 - CO-GRAPHENE HETEROSTRUCTURES WITH GIANT PERPENDICULAR MAGNETOCRYSTALLINE ANISOTROPY	1139
<i>Yang, H. ; Chshiev, M.</i>	
HC-02 - INDUCING HIGH COERCIVITY AND ANISOTROPY INTO STRAINED FE-CO THIN FILMS, TOWARDS RARE EARTH FREE PERMANENT MAGNETS APPLICATIONS	1140
<i>Giannopoulos, G. ; Salikhov, R. ; Reichel, L. ; Markou, A. ; Panagiotopoulos, I. ; Farle, M. ; Fahler, S. ; Psycharis, V. ; Niarchos, D.G.</i>	
HC-03 - TUNING PERPENDICULAR MAGNETIC ANISOTROPY IN THE MGO/COFEB/TA THIN FILMS.....	1141
<i>Zhu, T. ; Zhang, Q. ; Yu, R.</i>	
HC-05 - PERPENDICULAR MAGNETIC ANISOTROPY IN TA/PD (0–10 NM)/CO₂FEAL_{0.5}SI_{0.5}/MGO/TA STRUCTURED FILMS.....	1142
<i>Fu, H. ; You, C. ; Zhang, X. ; Tian, N.</i>	
HC-06 - MECHANISM OF HIGHER ORDER CONTRIBUTIONS IN INTERFACE ANISOTROPY OF THIN FILMS: FECO/MGO CASE	1143
<i>Barker, J. ; Kalitsov, A. ; Singh, A. ; Mryasov, O.N. ; Okatov, S.</i>	
HC-07 - INVESTIGATION OF TEMPERATURE DEPENDENT MAGNETIC PROPERTIES IN IRRADIATED CO/PT MULTILAYER DEVICES USING EXTRAORDINARY HALL EFFECT MEASUREMENTS	1144
<i>Wang, K. ; Qiu, Y. ; Huang, Y. ; Heard, P. ; Bending, S.</i>	
HC-09 - MEASUREMENT OF THE CUBIC ANISOTROPY CONSTANT K₃ OF FE FILMS ON GAN{0001}.....	1145
<i>Gao, C. ; Dong, C. ; Herfort, J. ; Brandt, O. ; Jia, C. ; Xue, D.</i>	
HC-10 - MAGNETOCRYSTALLINE ANISOTROPY IN TEXTURED FE₃O₄ FILM	1146
<i>Liu, E. ; Huang, Z. ; Yue, J. ; Chen, L. ; Sui, Y. ; Zhai, Y. ; Tang, S. ; Du, J. ; Zhai, H.</i>	
HC-11 - IN-SITU INTERNAL STRESS OBSERVATION OF FERROMAGNETIC THIN FILMS AT THE INITIAL STAGE OF THE FILM GROWTH DURING SPUTTER-DEPOSITION PROCESS.....	1147
<i>Hayashibara, H. ; Nakagome, M. ; Takamura, Y. ; Nakagawa, S.</i>	
HC-12 - MAGNETIZATION AND X-RAY ABSORPTION SPECTROSCOPY OF MN IMPLANTED GE AFTER FLASH LAMP ANNEALING	1148
<i>Zhou, S. ; Wang, Y. ; Prucnal, S. ; Jiang, Z. ; Zhang, W. ; Wu, C. ; Weschke, E. ; Skorupa, W. ; Helm, M.</i>	
HD-01 - XAS AND XMCD INVESTIGATION OF ZINC FERRITE NANOPARTICLES IRRADIATED WITH 100 MEV O BEAM.....	1149
<i>Singh, J.P. ; Gautam, S. ; Srivastava, R.C. ; Asokan, K. ; Chae, K.H.</i>	
HD-03 - CATION DISTRIBUTION AND THE TEMPERATURE DEPENDENCE OF BRILLOUIN FUNCTION FOR NICKEL-SUBSTITUTED MNZN FERRITES.....	1150
<i>Sun, K. ; Wu, C. ; Yang, Y. ; Wei, P. ; Yu, Z. ; Guo, R. ; Jiang, X. ; Lan, Z.</i>	
HD-04 - INFLUENCES OF PH VALUE, REACTION TIME, AND FILLING PRESSURE IN THE HYDROTHERMAL SYNTHESIS OF ZNFE₂O₄ NANOPARTICLES	1151
<i>Yoo, P. ; Lee, B. ; Liu, C.</i>	
HD-05 - CO-FERRITE THIN FILMS WITH PERPENDICULAR MAGNETIC ANISOTROPY	1152
<i>Liu, X. ; Shirsath, S.E. ; Shindoh, K.</i>	
HD-06 - STUDY ON THE CONTRIBUTION OF MAGNETIZATION MECHANISMS IN NIZN FERRITES.....	1153
<i>Liu, H. ; Sun, K. ; Yu, Z. ; Yang, Y. ; Wu, C. ; Jiang, X. ; Lan, Z.</i>	
HD-07 - MEASUREMENT AND MODELING OF TEMPERATURE EFFECTS ON MAGNETIC PROPERTY OF NON-ORIENTED SILICON STEEL LAMINATION.....	1154
<i>Chen, J. ; Wang, D. ; Cheng, S. ; Wang, Y.</i>	
HD-09 - REFLECTION OF ELECTROMAGNETIC WAVES FROM AN ARRAY OF THIN MAGNETIC ELEMENTS	1155
<i>Lisenkov, I. ; Tyberkevych, V. ; Nikitov, S.A. ; Slavin, A.</i>	
HD-10 - DIELECTRIC PROPERTIES OF SR₃CO₂FE₂₄O₄₁ Z-TYPE HEXAFERRITE	1156
<i>Tang, R. ; Jiang, C. ; Liang, Y. ; Zhang, X. ; Wang, H. ; Yang, H.</i>	
HD-11 - ELECTRICALLY TUNABLE BAND-PASS FILTER ON ENGINEERED SUBSTRATE ENABLED WITH PATTERNED PERMALLOY THIN FILM.....	1157
<i>Peng, Y. ; Wang, T. ; Jiang, W. ; Rahman, B. ; Xia, T. ; Wang, G.</i>	
HE-01 - DYNAMIC EFFECTS IN THE CHARACTERIZATION OF THE MAGNETOCALORIC EFFECT OF LAFESI-TYPE ALLOYS	1158
<i>Romero-Torralva, C. ; Mayer, C. ; Franco, V. ; Conde, A.</i>	
HE-02 - EXPERIMENTAL AND THEORETICAL STUDIES OF KINETICS OF PHASE TRANSITIONS IN MAGNETOCALORIC MATERIALS.....	1159
<i>Kamantsev, A.P. ; Koledov, V. ; Shavrov, V. ; Tereshina, I. ; Kuzmin, D.A. ; Bychkov, I.V.</i>	
HE-03 - INVESTIGATION OF ANTIFERROMAGNETIC ORDER IN FEMNP_{0.75}SI_{0.25} ALLOY FOR MAGNETOCALORIC APPLICATION BY FIRST PRINCIPLES CALCULATIONS	1160
<i>Li, G. ; Vitos, L.</i>	
HE-04 - THERMAL-HISTORY DEPENDENT MAGNETOELASTIC TRANSITION IN (MN, FE)₂(P, SI)	1161
<i>Miao, X. ; Caron, L. ; Gercsi, Z. ; Daoud-Aladine, A. ; Van Dijk, N. ; Sandeman, K.G. ; Bruck, E.</i>	
HE-05 - HIGH FIELD MEASUREMENT OF THE MAGNETOCALORIC EFFECT IN MNFE(P, SI) MATERIALS.....	1162
<i>Yibole, H. ; Guillou, F. ; Porcari, G. ; Kamantsev, A.P. ; Cwik, J. ; Koledov, V. ; Bruck, E.</i>	
HE-06 - THE INFLUENCE OF MAGNETOCRYSTALLINE ANISOTROPY ON THE MAGNETOCALORIC EFFECT OF CO₂B	1163
<i>Fries, M. ; Franco, V. ; Skokov, K.P. ; Gutfleisch, O.</i>	

HE-07 - STRUCTURAL AND MAGNETO-CALORIC PROPERTIES OF MNFEPI-XSIX COMPOUNDS PREPARED BY SPARK PLASMA SINTERING	1164
<i>Yue, M. ; Xu, M. ; Zhang, H. ; Zhang, D. ; Liu, D. ; Altounian, Z.</i>	
HE-09 - TUNABLE MAGNETOCALORIC RESPONSE IN HIGH-SPEED MELT-SPUN LA-CE-FE-SI RIBBONS	1165
<i>Hou, X. ; Xue, Y. ; Han, N. ; Liu, C. ; Lu, Q. ; Phan, M.</i>	
HE-10 - STRUCTURE AND GIANT INVERSE MAGNETOCALORIC EFFECT OF EPITAXIAL NI-CO-MN-AL FILMS	1166
<i>Teichert, N. ; Kucza, D. ; Yildirim, O. ; Hetaba, W. ; Behler, A. ; Yuzuak, E. ; Dincer, I. ; Helmich, L. ; Boehnke, A. ; Stoger-Pollach, M. ; Steiger-Thirsfeld, A. ; Waske, A. ; Schattschneider, P. ; Elerman, Y. ; Hutten, A.</i>	
HE-11 - MAGNETOCALORIC EFFECT STUDIES ON MNSBR0.05 (R: GD, TB, DY AND HO) INTERMETALLICS	1167
<i>Pothala, R. ; Garimella, M.</i>	
HE-12 - A NOVEL THERMOMAGNETIC GRIPPER	1168
<i>Chen, C. ; Chung, T.</i>	
HF-01 - A NON-SKIVING TAPE HEAD WITH SUB-AMBIENT AIR PRESSURE CAVITIES.....	1169
<i>Engelen, J.B. ; Jonnalagadda, V. ; Furrer, S. ; Rothuizen, H. ; Lantz, M.</i>	
HF-02 - RADIO-FREQUENCY (RF) FLY HEIGHT MONITORING SYSTEM FOR HEAT-ASSISTED MAGNETIC RECORDING (HAMR)	1170
<i>Franca-Neto, L.M. ; Knigge, B. ; Flechsig, K. ; Hunter, K.</i>	
HF-03 - EFFECT OF LASER HEATING ON CARBON WEAR AND LUBE DEPLETION IN HEAT ASSISTED MAGNETIC RECORDING.....	1171
<i>Xu, S. ; Sinha, S. ; Rismaniyazdi, E. ; Moser, A. ; Knigge, B.</i>	
HF-04 - UNDERSTANDING AND MITIGATION OF SCRATCH INDUCED MAGNETIC DAMAGE IN PERPENDICULAR RECORDING MEDIA	1172
<i>Zhu, S. ; Huang, J. ; Li, X. ; Lu, X.B. ; Liu, H.</i>	
HF-06 - HEAD-DISK LUBRICANT TRANSFER AND REPOSITION DURING HEAT ASSISTED WRITE AND READ OPERATIONS	1173
<i>Yang, Y. ; Li, X. ; Stirniman, M. ; Huang, F. ; Zavaliche, F. ; Tang, H. ; Jones, P.</i>	
HF-07 - INVESTIGATION OF TEMPERATURE DEPENDENCE OF RAMAN SHIFT OF AMORPHOUS CARBON COATINGS USED IN HEAT ASSISTED MAGNETIC RECORDING	1174
<i>Li, L. ; Suen, B. ; Talke, F.</i>	
HF-08 - COMBINED EFFECTS OF SURFACE ROUGHNESS MODE AND ACCOMMODATION COEFFICIENT OF AIR BEARING FILM IN THE HEAD/DISK INTERFACE	1175
<i>Shi, B. ; Feng, Y. ; Ji, J. ; Wang, Z.</i>	
HF-09 - COARSE-GRAINED MOLECULAR DYNAMICS SIMULATION OF NANOMETER-THICK POLAR LUBRICANT FILMS SHEARED BETWEEN SOLID SURFACES WITH RANDOM ROUGHNESS	1176
<i>Kobayashi, T. ; Zhang, H. ; Fukuzawa, K. ; Itoh, S.</i>	
HF-10 - REPEATABLE AND NONREPEATABLE FH MODULATION STUDY NEAR HEAD CONTACT	1177
<i>Yuan, Z. ; Ong, C. ; Ang, S. ; Gan, S. ; Fujita, T. ; Santoso, B. ; Wong, H.</i>	
HF-11 - THE INSTABILITY OF ANGSTROM-SCALE HEAD-DISK INTERFACE INDUCED BY ELECTROSTATIC FORCE	1178
<i>Wang, Y. ; Wei, X. ; Liang, X.</i>	
HF-12 - STUDY OF THE HEAD DISK INTERFACE USING TOUCHDOWN SENSORS AND ELECTRO-MAGNETIC SIGNALS IN HARD DISK DRIVES	1179
<i>Ma, Y. ; Xue, S. ; Peng, J. ; Hellman, D. ; Bogy, D.B.</i>	
HG-01 - CONTROL OF VORTEX CHIRALITY IN NI80FE20 DOTS USING DIPOLE COUPLED NANOMAGNETS	1180
<i>Haldar, A. ; Adeyeye, A.</i>	
HG-04 - BROADBAND FERROMAGNETIC RESONANCE SPECTROSCOPY OF ARTIFICIAL SPIN ICE PERMALLOY STRUCTURES	1181
<i>Zhou, X. ; Chua, G. ; Singh, N. ; Adeyeye, A.</i>	
HG-05 - TUNING FOUR-FOLD MAGNETIC ANISOTROPY IN TWO-DIMENSIONAL MODULATED NI80FE20 FILMS	1182
<i>Kakazei, G.N. ; Liu, X. ; Ding, J. ; Golub, V. ; Salyuk, O. ; Bunyaev, S. ; Adeyeye, A.</i>	
HG-08 - MAGNETIZATION SWITCHING DYNAMICS IN SINGLE NANODOT OF EPITAXIAL CO/PT MULTILAYER.....	1183
<i>Lao, B. ; Okamoto, S. ; Kikuchi, N. ; Kitakami, O.</i>	
HG-10 - MODELING OF THE INFLUENCE OF DEFECTS ON MAGNONIC SPECTRA OF PERMALLOY ANTIDOT ARRAYS.....	1184
<i>Manzin, A. ; Barrera, G. ; Celegato, F. ; Coisson, M. ; Tiberto, P.</i>	
HG-11 - CONTROL AND GENERATION OF DOMAIN WALLS NEAR MAGNETIC COMPENSATION IN FERRIMAGNETIC COTB VIA APPLIED THERMAL GRADIENT	1185
<i>Tolley, R.D. ; Liu, T. ; Hauet, T. ; Hehn, M. ; Lengaigne, G. ; Fullerton, E.E. ; Mangin, S.</i>	
HH-01 - A NOVEL MAGNETIC GEAR: TOWARDS A HIGHER TORQUE DENSITY	1186
<i>Yin, X. ; Pfister, P. ; Fang, Y.</i>	
HH-02 - DESIGN AND ANALYSIS OF A FLUX-DECOUPLING MAGNETIC-GEARED PERMANENT-MAGNET BRUSHLESS MACHINE	1187
<i>Li, C. ; Zhang, Y. ; Liu, C. ; Jiang, J.</i>	

HH-03 - NUMERICAL CONSIDERATION OF SYMMETRICAL STRUCTURE LINEAR PERMANENT MAGNET VERNIER MACHINE	1188
<i>Imada, T. ; Shimomura, S. ; Tanaka, T.</i>	
HH-04 - AN INDUCTION PLANAR ACTUATOR FOR SURFACE INSPECTION	1189
<i>Treviso, F. ; Da Silveira, M.A. ; Filho, A.F.Flores ; Dorrell, D.</i>	
HH-05 - DESIGN AND OPTIMIZATION OF AN ARC VERNIER PERMANENT MAGNET SYNCHRONOUS MOTOR USED FOR LARGE TELESCOPE	1190
<i>Gao, Y. ; Qu, R. ; Li, J. ; Li, D.</i>	
HH-06 - OPTIMAL DESIGN OF PARTITIONED PRIMARY LINEAR SWITCHED FLUX PM MACHINES	1191
<i>Shi, J. ; Lu, Q. ; Ye, Y.</i>	
HH-08 - NEW HELICAL-SHAPE MAGNETIC POLE DESIGN FOR MAGNETIC LEAD SCREW ENABLING STRUCTURE SIMPLIFICATION	1192
<i>Lu, K. ; Xia, Y. ; Wu, W. ; Zhang, L.</i>	
HH-10 - TORQUE ANALYSIS OF MAGNETIC SPUR GEAR WITH HALBACH MAGNETIZED PERMANENT MAGNETS USING AN ANALYTICAL METHOD	1193
<i>Min, K. ; Choi, J. ; Cho, H. ; Shin, H.</i>	
HH-11 - A FLUX FOCUSING CYCLOIDAL MAGNETIC GEARBOX	1194
<i>Bird, J. ; Li, K. ; Williams, W. ; Kadel, J.</i>	
HP-01 - ZERO-FIELD SPIN TRANSFER OSCILLATORS COMBINING IN-PLANE AND OUT-OF-PLANE MAGNETIZED FREE LAYERS	1195
<i>Fowley, C. ; Sluka, V. ; Bernert, K. ; Lindner, J. ; Fassbender, J. ; Rippard, W. ; Pufall, M. ; Russek, S.E. ; Deac, A.</i>	
HP-06 - REALIZATION OF ULTRA-WIDE RESONANCE DETECTION REGIME OF SPIN-TORQUE DIODE RADIO-FREQUENCY DETECTOR BY UTILIZING TILTED FIXED-LAYER MAGNETIZATION	1196
<i>Zeng, T. ; Zhou, Y. ; Lin, K. ; Lai, P. ; Pong, P.</i>	
HP-07 - EFFECTIVE DAMPING CONSTANT AND PERPENDICULAR ANISOTROPY OF GDFECO / TBFE EXCHANGE COUPLED BILAYER	1197
<i>Higashide, T. ; Dai, B. ; Oshima, D. ; Kato, T. ; Iwata, S. ; Tsunashima, S.</i>	
HP-08 - MODULATION RATE STUDY IN SPIN TORQUE OSCILLATOR BASED WIRELESS COMMUNICATION SYSTEM	1198
<i>Sharma, R. ; Durrenfeld, P. ; Ranjbar, M. ; Dumas, R.K. ; Akerman, J. ; Muduli, P.K.</i>	
HP-09 - UNIPOLAR SWITCHING OF PERPENDICULAR MTJ FOR STT-MRAM APPLICATION	1199
<i>Zhou, Y. ; Wang, Z. ; Hao, X. ; Huai, Y. ; Zhang, J. ; Jung, D. ; Satoh, K.</i>	
HP-10 - MAGNETIC PROPERTIES AND MAGNETIZATION DYNAMICS OF MAGNETIC TUNNEL JUNCTIONS BOTTOM ELECTRODE WITH DIFFERENT BUFFER LAYERS	1200
<i>Wrona, J. ; Kanak, J. ; Banasik, M.J. ; Zietek, S. ; Skowronski, W. ; Stobiecki, T.</i>	
HP-11 - PULSE-COUPLED SYNCHRONIZATION IN AN ARRAY OF SPIN TORQUE NANO OSCILLATORS	1201
<i>Nakada, K. ; Miura, K.</i>	
HQ-01 - PERFORMANCE EVALUATION OF LDPC CODING AND ITERATIVE DECODING SYSTEM IN TDMR R/W CHANNEL WITH HEAD SKEW	1202
<i>Suzutou, R. ; Nakamura, Y. ; Osawa, H. ; Okamoto, Y. ; Kanai, Y. ; Muraoka, H.</i>	
HQ-02 - JOINT LOW-COMPLEXITY DETECTION AND RELIABILITY-BASED BP DECODING FOR NON-BINARY LDPC CODED TDMR CHANNELS	1203
<i>Han, G. ; Wang, M. ; Fang, Y. ; Kong, L.</i>	
HQ-03 - NONLINEAR DYNAMIC MODEL OF A PIVOT BALL BEARING IN HARD DISK DRIVE INCLUDING THE HERTZIAN CONTACT FORCE	1204
<i>Yoon, J. ; Park, N. ; Park, K. ; Park, Y.</i>	
HQ-04 - A STUDY ON THE IMPLICATIONS OF GRAIN DENSITY DISTRIBUTION OVER THE GRANULAR MEDIA MODEL FOR TDMR	1205
<i>Matcha, C.K. ; Srinivasa, S.G.</i>	
HQ-05 - A STUDY OF MULTIPLE READS OF TARGET TRACK PRIOR TO DETECTION FOR TWO-DIMENSIONAL MAGNETIC RECORDING	1206
<i>Singhaudom, W. ; Supnithi, P. ; Warisarn, C.</i>	
HQ-06 - PROTOGRAPH BASED QUASI-CYCLIC LDPC CODING FOR ULTRA-HIGH DENSITY MAGNETIC RECORDING CHANNELS	1207
<i>Kong, L. ; He, L. ; Chen, P. ; Han, G. ; Fang, Y.</i>	
HQ-07 - THE DESIGN OF PROTOGRAPH LDPC CODES FOR TWO-DIMENSIONAL MAGNETIC RECORDING CHANNELS	1208
<i>Chen, P. ; Kong, L. ; Fang, Y. ; Wang, L.</i>	
HQ-08 - AN ITERATIVE TMR MITIGATION METHOD BASED ON READBACK SIGNALS FOR BIT-PATTERNED MEDIA RECORDING	1209
<i>Busyatras, W. ; Warisarn, C. ; Myint, L. ; Supnithi, P. ; Kovintavewat, P.</i>	
HQ-09 - A NOVEL LINEAR-ROTARY-PERMANENT MAGNET ACTUATOR USING INTERLACED POLES	1210
<i>Guo, K. ; Fang, S. ; Lin, H. ; Yang, H.</i>	
HQ-10 - A SIMPLE CODING SCHEME WITH ROTATING TECHNIQUE FOR DITI MITIGATION IN BIT-PATTERN MEDIA RECORDING	1211
<i>Ketwong, P. ; Arrayangkool, A.</i>	
HQ-11 - A SOFT DECODABLE CONCATENATED LDPC CODE	1212
<i>Yang, S. ; Han, Y. ; Wu, X. ; Wood, R. ; Galbraith, R.</i>	

HQ-12 - SOFT-OUTPUT DECODING OF 2D MODULATION CODES FOR BIT-PATTERNED MEDIA RECORDING	1213
<i>Warisarn, C. ; Kovintavewat, P.</i>	
HQ-13 - STUDY OF FRACTIONALLY-SPACED EQUALIZERS FOR BIT-PATTERNED MEDIA RECORDING	1214
<i>Koonkarnkhai, S. ; Kovintavewat, P.</i>	
HQ-14 - COMPARISON OF SIGNALS FROM MICROMAGNETIC SIMULATIONS, GFP MODEL AND A HDD	1215
<i>Chan, K. ; Teo, K.K. ; Lin, M. ; Kee, H. ; Elidrissi, M. ; Li, Q. ; Ko, B. ; Choo, Q. ; Maung, M.</i>	
HR-01 - ANISOTROPY DISTRIBUTION IN RAPIDLY QUENCHED AMORPHOUS GLASS-COATED NANOWIRES	1216
<i>Ovari, T. ; Corodeanu, S. ; Lostun, M. ; Ababei, G. ; Chiriac, H.</i>	
HR-02 - INFLUENCE OF CURRENT ANNEALING ON THE MAGNETIC PROPERTIES OF AMORPHOUS AND CRYSTALLINE SOFT THIN FILMS	1217
<i>Coisson, M. ; Barrera, G. ; Celegato, F. ; Tiberto, P. ; Vinai, F. ; Fiore, G. ; Rizzi, P. ; Villacis, P. ; Viteri, B. ; Battezzati, L.</i>	
HR-03 - FILM THICKNESS INDUCED MAGNETIC ANISOTROPY AND FERROMAGNETIC RESONANCE IN FE56CO24B20 AMORPHOUS FILMS PREPARED BY PULSE LASER DEPOSITION	1218
<i>Wu, C. ; Huang, Y. ; Cui, Y. ; Shen, Z. ; Ma, Y. ; Chen, C. ; Xie, S. ; Du, H. ; Li, Y. ; Li, S.</i>	
HR-04 - CO-BASED AMORPHOUS MATERIAL FOR GIANT MAGNETO-IMPEDANCE AND FLUXGATE SENSING CORES	1219
<i>Sarkar, P. ; Vcelak, J. ; Roy, R.K. ; Panda, A.K. ; Mitra, A. ; Ripka, P.</i>	
HR-06 - MAGNETO-TRANSPORT PROPERTIES OF COFESIB/(CO, COPTRH) MULTILAYER MICROWIRES	1220
<i>Borza, F. ; Ovari, T. ; Corodeanu, S. ; Chiriac, H.</i>	
HR-08 - EPITAXIAL GROWTH AND MAGNETIC CHARACTERIZATION OF y'-FE4N THIN FILMS	1221
<i>Atiq, S. ; Siddiqi, S.A. ; Ko, H.S. ; Riaz, S. ; Naseem, S. ; Shin, S.C.</i>	
HR-10 - MAGNETIC PROPERTIES OF ELECTRODEPOSITED NICKEL-MWCNT NANOCOMPOSITE FILMS	1222
<i>Nasirpour, F. ; Daneshvar-Fattah, F. ; Samardak, A. ; Sukovatitsina, E. ; Chebotkevich, L.</i>	
HR-12 - NANOGRANULAR COFE-YTTRIUM-DOPED ZIRCONIA FILMS FOR NOISE SUPPRESSOR	1223
<i>Hao, G. ; Zhang, D. ; Jin, L. ; Zhang, H. ; Tang, X.</i>	
HR-13 - PREPARATION OF FE-BASED SOFT MAGNETIC COMPOSITES WITH HIGH BS BY ACIDIC BLUING COATING	1224
<i>Zhao, G. ; Wu, C. ; Yan, M.</i>	
HR-14 - STUDY OF HYPERTHERMIA THROUGH THE BIO-PLASMA TREATMENT AND MAGNETIC PROPERTIES OF FE3O4 NANOPARTICLES	1225
<i>Choi, H. ; Kim, C.</i>	
HR-15 - MAGNETICALLY RECYCLE-ABLE PD-MODIFIED NIFE2O4 NANOPARTICLES	1226
<i>Atiq, S. ; Ramay, S.M. ; Mahmood, A. ; Riaz, S. ; Naseem, S.</i>	
HS-01 - ANALYSIS OF MAGNET BEHAVIORS WITHIN HIGH FREQUENCY FIELD AND HIGH TEMPERATURE USING MICROMAGNETIC SIMULATOR	1227
<i>Akagi, F. ; Honkura, Y.</i>	
HS-05 - COERCIVITY AND THERMAL STABILITY ENHANCEMENT FOR SPARK PLASMA SINTERED NANOCRYSTALLINE ND-FE-B MAGNETS WITH DY2O3 AND ZN ADDITIONS	1228
<i>Liu, Z. ; Hu, S. ; Yu, H. ; Zhong, X. ; Gao, X.</i>	
HS-07 - MAGNETIC AFTER-EFFECT IN OPTIMAL MELT-SPUN PR7.8FE75.8CO5CR5B6.4 RIBBONS	1229
<i>Han, G. ; Su, H. ; Kang, S. ; Yu, S. ; Liu, X. ; Liu, J.</i>	
HS-08 - EVOLUTION OF TEXTURE AND MAGNETIC PROPERTIES IN NDPRFEB BASED NANOCOMPOSITE MAGNETS WITH PLASTIC DEFORMATION	1230
<i>Meng, H. ; Du, J. ; Chen, R. ; Liu, J. ; Zhang, J. ; Xia, W. ; Chen, K. ; Yan, A. ; Liu, J.</i>	
HS-09 - MAGNETIC AND MICROSTRUCTURAL EVOLUTION OF ND-FE-B PROCESSED VIA HDDR (HYDROGENATION-DISPROPORTIONATION-DESORPTION-RECOMBINATION) AND MELT-SPINNING SINTERED BY SPS (SPARK PLASMA SINTERING)	1231
<i>Engerhoff, J.A. ; Justo, L.H. ; Lopes, L.U. ; Wendhausen, P.A. ; Keller, F.O. ; Junior, N.V.</i>	
HS-10 - CHEMICAL SYNTHESIS OF EXCHANGE-COUPLED NANOCOMPOSITE MAGNETS	1232
<i>Liu, F. ; Hou, Y.</i>	
HS-11 - ND-FE-B THICK-FILM MAGNETS PREPARED BY HIGH LASER ENERGY DENSITY	1233
<i>Fujiyama, K. ; Yanai, T. ; Nakano, M. ; Itakura, M. ; Fukunaga, H.</i>	
HS-12 - EFFECT OF NON-MAGNETIC CAP LAYERS FOR ND-FE-B THIN FILMS WITH SMALL ADDITION OF RARE EARTH ELEMENT	1234
<i>Nakagawa, R. ; Doi, M. ; Shima, T.</i>	
HS-13 - INFLUENCE OF THE PREPARATION PROCESS AND TARGET COMPOSITION ON CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF NDFEB THIN FILMS	1235
<i>Su, H. ; Zhang, J. ; Du, J. ; Xia, W. ; Yan, A. ; Liu, J.</i>	
HS-14 - SYNTHESIS OF FERROMAGNETIC ND2FE14B NANOCRYSTALLINE VIA SOLVOTHERMAL DECOMPOSITION AND REDUCTION-DIFFUSION CALCINATION	1236
<i>Wei, H. ; Wang, F. ; Du, J. ; Xia, W. ; Zhang, J. ; Liu, J. ; Yan, A.</i>	
HS-15 - MELT SPINNING PROCESS AND ITS EFFECT ON THE MAGNETIC PROPERTIES AND STRUCTURES OF SM(CO, FE, CU, ZR)Z MELT-SPUN RIBBONS	1237
<i>Liu, Z. ; Fang, Y. ; Sun, W. ; Chen, H. ; Zhu, M. ; Li, W.</i>	

HT-03 - ALL-MAGNETIC CONTROL OF SKYRMIONS IN NANOWIRE BY SPIN WAVE	1238
<i>Zhang, X. ; Ezawa, M. ; Dun, X. ; Zhao, G. ; Liu, Y. ; Zhou, Y.</i>	
HT-04 - AMPLIFICATION OF SPIN WAVES BY THE SPIN-HALL EFFECT IN MICROSCOPIC MAGNONIC WAVEGUIDES	1239
<i>Demidov, V.E. ; Urazhdin, S. ; Rinkevich, A.B. ; Reiss, G. ; Demokritov, S.O.</i>	
HT-05 - CONVERSION OF MAGNETOSTATIC SPIN WAVES PROPAGATING THROUGH A JUNCTION OF MAGNONIC WAVEGUIDES	1240
<i>Grishin, S.V. ; Davies, C. ; Sadovnikov, A. ; Kruglyak, V. ; Romanenko, D. ; Sharaevsky, Y.P. ; Nikitov, S.A.</i>	
HT-06 - BAND GAP CONTROL IN PERIODIC STRUCTURE WITH MAGNONIC CRYSTAL AND FERROELECTRIC	1241
<i>Morozova, M.A. ; Grishin, S. ; Sadovnikov, A. ; Sharaevsky, Y.P. ; Nikitov, S.A.</i>	
HT-07 - CONTROLLING OF SYNTHESIZED STANDING SPIN WAVE CONFIGURATION WITH EXTERNAL FIELDS	1242
<i>Imamura, K. ; Ya, X. ; Tanaka, T. ; Matsuyama, K.</i>	
HT-08 - NUMERICAL ANALYSIS ON TWO DIMENSIONAL STANDING SPIN WAVES IN MICROSTRUCTURED EXCHANGE-COUPLED HARD/SOFT BILAYER STRIPS	1243
<i>Ya, X. ; Imamura, K. ; Tanaka, T. ; Matsuyama, K.</i>	
HT-09 - MODULATION THE PHASE OF PROPAGATING SPIN WAVE IN WAVEGUIDE BY SPIN-POLARIZED CURRENT	1244
<i>Chen, X. ; Wang, Q. ; Liao, Y. ; Tang, X. ; Zhang, H. ; Zhong, Z.</i>	
HT-10 - POLARIZATION CONTROL IN MAGNONIC VORTEX CRYSTALS	1245
<i>Swoboda, C. ; Breckwoltd, N. ; Kobs, A. ; Jacobsohn, J. ; Vogel, A. ; Oepen, H.P. ; Meier, G.</i>	
HU-01 - AN OBSERVATION OF VARIABLE MAGNETIC FORCES DEPENDING ON ADJACENT SURFACE SHAPES OF BORDERING MAGNETIZED MATERIALS.....	1246
<i>Choi, H. ; Park, I. ; Park, B.</i>	
HU-02 - TIME-DEPENDENT TRANSPORT IN GATED TOPOLOGICAL INSULATORS	1247
<i>Li, Y. ; Jalil, M.B.</i>	
HU-03 - MODELING AND EXPERIMENTAL ANALYSIS FOR NANOPARTICLES HEATING USING MAGNETIC FIELDS TO HIGH FREQUENCY	1248
<i>Manicoba, G.C. ; Salazar, A.O. ; De Oliveira, J.B.</i>	
HU-04 - THREE-DIMENSIONAL MAGNETIC PROPERTIES MEASUREMENT OF THE LAMINATED SILICON STEELS.....	1249
<i>Li, Y. ; Yang, Q. ; Zhu, J.</i>	
HU-06 - COMPETING MAGNETIC INTERACTION IN CO DOPED LA0.7SR0.3MNO3	1250
<i>Zhao, H. ; Chen, X. ; Wei, J. ; Yang, Y. ; Du, H. ; Han, J. ; Wang, C. ; Liu, S. ; Zhang, Y. ; Yang, Y. ; Yang, J.</i>	
HU-09 - MAGNETIC INTERACTION AND ELECTRONIC TRANSPORT IN LA0.4BI0.6MN0.5TI0.5O3 MANGANITE	1251
<i>Dayal, V. ; Kumar, P.V. ; Hadimani, R.L. ; Balfour, E.A. ; Fu, H. ; Jiles, D.</i>	
HU-10 - DEVELOPMENT OF POLARITY-CHANGEABLE MAGNETIZER FOR MANUFACTURING CODING PATTERNS IN ROTARY ENCODER	1252
<i>Liu, Y. ; Chen, B. ; Chang, J.</i>	
HU-13 - ANOMALOUS MAGNETORESISTANCE AND TRANSPORT PROPERTIES OF ITINERANT FERROMAGNET FE1-XCOXSI.....	1253
<i>Yang, T.Ou ; Shu, G. ; Hu, C. ; Chou, F.</i>	
HU-14 - A COMPARISON OF THE RAPID-ANNEALED FEPT AND FEPD THIN FILMS: INTERNAL STRESS, L10 ORDERING, AND TEXTURE	1254
<i>Hsiao, S. ; Liu, S. ; Chen, C. ; Chou, C. ; Chen, S. ; Chiu, K. ; Lee, H.</i>	
HU-15 - EFFECT OF STRESS ON EXCESS LOSS OF ELECTRICAL STEEL SHEETS.....	1255
<i>Singh, D. ; Rasilo, P. ; Martin, F. ; Belahcen, A. ; Arkkio, A.</i>	
HV-03 - TRANSITION METAL-DOPED ZNO DILUTED MAGNETIC SEMICONDUCTORS TUNED BY HIGH PULSED MAGNETIC FIELD	1256
<i>Zhong, M. ; Wang, S. ; Li, Y. ; Li, W. ; Hu, Y. ; Zhu, M. ; Jin, H.</i>	
HV-04 - MAGNETISM IN A NONMETAL-SUBSTITUTED BLUE PHOSPHORENE: A FIRST-PRINCIPLES STUDY	1257
<i>Zheng, H. ; Yang, H. ; Du, X. ; Yan, Y.</i>	
HV-05 - COMPARISON OF MAGNETISM AND TRANSPORT PROPERTIES IN FE/X (X=C, SI, GE) FILMS.....	1258
<i>Li, X. ; Wang, Y. ; Jia, J. ; Li, J. ; Xu, X.</i>	
HV-06 - A FIRST PRINCIPLES STUDY OF CHALCOPYRITE (ALGAMN)P2 ALLOYS.....	1259
<i>Kang, B. ; Chae, K. ; Kim, K. ; Yu, S.</i>	
HV-07 - TUNING OF THE METAL-INSULATOR TRANSITION IN MAGNETIC PHASE-CHANGE MATERIAL GE1-XFEXTE.....	1260
<i>Liu, J. ; Cheng, X. ; Tong, F. ; Miao, X.</i>	
HV-08 - ROOM TEMPERATURE FERROMAGNETISM OF FE-DOPED IN2O3 NANODOT ARRAYS FABRICATED BY POROUS ANODIZED ALUMINUM TEMPLATES.....	1261
<i>Chen, D. ; Ma, W. ; Jiang, F. ; Xu, X.</i>	
HV-09 - MICROSTRUCTURE RELATED QUANTUM CONDUCTANCE IN MN-DOPED ZNO RESISTIVE SWITCHING MEMORY	1262
<i>Ren, S. ; Dong, J. ; Zhang, L. ; Huang, Y. ; Guo, J. ; Zhang, L. ; Zhao, J. ; Chen, W.</i>	

HV-10 - SEVERAL MAGNETIC SEMICONDUCTORS BASED ON THE QUATERNARY HEUSLER COMPOUNDS	1263
<i>Wang, Y. ; Wang, W. ; Wu, G. ; Liu, E. ; Liu, G.</i>	
HV-13 - MAGNETIC FIELD MODULATION OF CHIRAL TUNNELING IN GRAPHENE HETEROJUNCTIONS	1264
<i>Li, Y. ; Jalil, M.B.</i>	
HV-14 - MAGNETORESISTANCE OF (CH₃NH₃)PBI₃ COATED LA_{0.67}SR_{0.33}MNO₃ GRANULAR COMPOSITES	1265
<i>Zhu, K. ; Chen, J. ; Fan, Q. ; Wang, L. ; Xu, Q.</i>	
HV-15 - EFFICIENT DUAL SPIN-VALLEY FILTER IN STRAINED SILICENE	1266
<i>Yesilyurt, I.C. ; Liang, G. ; Jalil, M.B.</i>	
HV-16 - SPIN-DEPENDENT BANDGAP STRUCTURES AND SPIN FILTERING IN GRAPHENE WITH MULTIPLE FERROMAGNETIC BARRIERS	1267
<i>Zhang, R. ; Li, J. ; Sun, R. ; Peng, R. ; Huang, R. ; Wang, M.</i>	
HW-02 - QUANTITATIVE ANALYSIS OF WIRELESS POWER TRANSFER SYSTEM WITH FERRITE CORES	1268
<i>Zhang, X. ; Ho, S.L. ; Fu, W.</i>	
HW-04 - OPTIMAL DESIGN AND ANALYSIS OF WIRELESS POWER TRANSFER SYSTEM COUPLED WITH POWER SOURCE	1269
<i>Zhang, X. ; Ho, S.L. ; Fu, W.</i>	
HW-05 - ANALYSIS OF DC-BIASED EDDY CURRENT PROBLEMS BY AN EFFICIENT FIXED-POINT TECHNIQUE IN HARMONIC DOMAIN	1270
<i>Zhao, X. ; Zhong, Y. ; Li, L. ; Cheng, Z. ; Meng, F. ; Guan, D.</i>	
HW-06 - RESEARCH ON DYNAMIC MAGNETIC FLUX MEASUREMENT UNDER DC-BIASED MAGNETIZATION BY THE TYPE-C TRANSDUCER	1271
<i>Wang, Z. ; Wang, B. ; Chen, X.</i>	
HW-07 - DESIGN AND MODELING OF WIRELESS POWER TRANSFER COILS WITH DOUBLE-LAYER PRINTED BOARDS STRUCTURE	1272
<i>Li, R. ; Li, L.</i>	
HW-08 - PROPOSAL OF A WIRELESS POWER TRANSFER TECHNIQUE USED TO LOW POWER MULTI-RECEIVER APPLICATIONS	1273
<i>Bu, Y. ; Mizuno, T. ; Fujisawa, H.</i>	
HW-09 - INVESTIGATION OF THE PERFORMANCE OF A NOVE PERMANENT MAGNET BIASED FAULT CURRENT LIMITER	1274
<i>Yuan, J. ; Lei, Y. ; Wei, L. ; Chen, B.</i>	
HW-10 - EFFECTS OF MULTI-CORE STRUCTURE ON MAGNETIC LOSSES AND MAGNETO-MECHANICAL VIBRATION AT HIGH FREQUENCIES	1275
<i>Hsu, C. ; Jen, S. ; Liu, J. ; Cheng, S. ; Fu, C.</i>	
HW-11 - DESIGN OF THE RATS EXPERIMENT PLAYGROUND BASED ON THE MAGNETIC RESONANT WIRELESS ENERGY TRANSMISSION TECHNOLOGY	1276
<i>Wang, J. ; Liu, K. ; Wang, L. ; Sun, M.</i>	
HW-12 - ENHANCEMENT OF INDUCTANCE AND QUALITY FACTOR IN GHZ RANGE OF SOLENOID INDUCTOR BY INTEGRATING [FE₈₀NI₂₀-O/SIO₂]N MAGNETIC MULTILAYER FILMS	1277
<i>Xu, L. ; Wang, L. ; Wang, Z. ; Wang, J. ; Wang, Y. ; Bai, F. ; Peng, D.</i>	
HW-13 - COGNITION ON THE CURRENT-LIMITING EFFECT OF SATURATED-CORE SUPERCONDUCTING FAULT CURRENT LIMITER	1278
<i>Jia, Y. ; Shi, Z. ; Zhu, H. ; Geng, Y. ; Zou, J. ; Yuan, J.</i>	
HW-14 - RESEARCH ON DYNAMIC VIBRATION OF TRANSFORMER CORES UNDER WIRELESS POWER TRANSFER SYSTEM LOAD	1279
<i>Zhu, L. ; Yang, Q. ; Zhang, X. ; Yan, R.</i>	
HX-02 - MEASUREMENT OF SURFACE LOSSES IN SOLID POLES OF SYNCHRONOUS MACHINES UNDER LOAD CONDITIONS	1280
<i>Shima, K. ; Fujinuki, K. ; Matsumoto, T. ; Fukami, T.</i>	
HX-03 - MEASUREMENT OF HYSTERESIS LOOP AT THE TIP OF THE TEETH OF AN INVERTER-DRIVEN SQUIRREL-CAGE INDUCTION MOTOR	1281
<i>Saito, K. ; Sasayama, T. ; Nakano, M.</i>	
HX-04 - THE ANALYSIS AND SIMULATION OF SADDLE-NODE BIFURCATION OF THE INDUCTION MOTOR WITH IRON LOSS	1282
<i>Meng, X. ; Shen, C. ; Xu, Y. ; Liu, X.</i>	
HX-05 - ANALYTICAL STUDY AND CORRESPONDING EXPERIMENTS FOR IRON LOSS INSIDE LAMINATED CORE UNDER AC-DC HYBRID EXCITATION	1283
<i>Zhao, Z. ; Fugui, L. ; Cheng, Z. ; Liu, L. ; Liu, Y. ; Fan, Y.</i>	
HX-06 - IRON LOSS ESTIMATION METHOD FOR GENERAL HYSTERESIS LOOP WITH MINOR LOOPS	1284
<i>Taitoda, T. ; Takahashi, Y. ; Fujiwara, K.</i>	
HX-07 - THE EFFECT OF COMMON-MODE VOLTAGE ELIMINATION ON THE IRON LOSS IN MACHINE CORE LAMINATIONS OF MULTILEVEL DRIVES	1285
<i>Salem, A. ; Abdalh, A. ; Rasilo, P. ; De Belie, F. ; Dupre, L. ; Melkebeek, J.</i>	
HX-09 - A METHODOLOGY OF IRON LOSS CALCULATION FOR PERMANENT MAGNET LINEAR SYNCHRONOUS MACHINE	1286
<i>Mingfei, X.</i>	

HX-10 - DETERMINATION OF THE CONTRIBUTION OF DC COMPONENT TO STRAY-FIELD LOSS UNDER AC-DC HYBRID EXCITATION.....	1287
<i>Zhao, Z. ; Fugui, L. ; Cheng, Z. ; Liu, Y. ; Liu, L. ; Zhao, X.</i>	
HX-11 - NUMERICAL AND EXPERIMENTAL CHARACTERIZATION OF THREAD TYPE MAGNETIC CORE WITH LOW EDDY CURRENT LOSS.....	1288
<i>Kim, H. ; Seo, K. ; Lee, K. ; Hong, S. ; Park, I.</i>	
HX-12 - COMPARISON OF MOTOR STATOR TEETH BUILT OF SOFT MAGNETIC COMPOSITE AND LAMINATED SILICON STEEL SHEETS IN AN AXIAL FLUX PERMANENT MAGNET SYNCHRONOUS MACHINE	1289
<i>Scheerlinck, B. ; Sergeant, P.</i>	
HX-15 - LOSS ANALYSIS FOR THE HYBRID LINEAR SWITCHED RELUCTANCE MOTOR WITH NO COGGING FORCE	1290
<i>Cheung, N. ; Cheng, E.K.</i>	
HY-01 - TRANSFER PATH ANALYSIS OF STRUCTURAL VIBRATION ON PROPULSION MOTOR	1291
<i>Yu, H. ; Tian, L. ; Zhang, G.</i>	
HY-02 - INVESTIGATION OF A FLUX-SWITCHED PERMANENT MAGNET LINEAR MOTOR FOR TAMPING MACHINE	1292
<i>Cai, J. ; Ren, J. ; Lu, Q. ; Ye, Y. ; Wang, Z.</i>	
HY-03 - DEVELOPMENT OF A FLUID PUMPING SYSTEM USING A MOTOR BEARINGLESS SYNCHRONOUS PERMANENT MAGNET	1293
<i>Barros, A.F. ; Santos, L.P. ; Paulo, D.S.Araujo ; Salazar, A.O.</i>	
HY-05 - A NEW HYBRID-STRUCTURE MACHINE WITH MULTI-MODE FAULT-TOLERANT OPERATION FOR MARS ROVER	1294
<i>Liu, C. ; Chau, K.</i>	
HY-07 - ANALYSIS OF A DUAL-WINDING FAULT-TOLERANT PERMANENT MAGNET MACHINE DRIVE FOR AEROSPACE APPLICATIONS	1295
<i>Jiang, X. ; Huang, W. ; Cao, R. ; Hao, Z. ; Li, C. ; Jiang, W.</i>	
HY-08 - ACOUSTIC EMISSION EFFECT INDUCED BY LORENTZ AND MAGNETOSTRICTION FORCE	1296
<i>Jin, L. ; Yang, Q. ; Zhang, C.</i>	
HY-10 - A NOVEL MAGNETIC ACTUATOR CAPABLE OF FREE MOVEMENT ON A MAGNETIC SUBSTANCE	1297
<i>Yaguchi, H.</i>	
HY-11 - A BASIC STUDY OF A NOVEL HOMOPOLAR TYPE MAGNETIC BEARING UNIFYING FOUR C-SHAPED CORES FOR HIGH OUTPUT AND LOW LOSS.....	1298
<i>Matsuzaki, T. ; Takemoto, M. ; Ogasawara, S. ; Nishihama, K. ; Kori, D. ; Nagata, K.</i>	
HY-13 - DESIGN AND DRIVE CONTROL OF NOVEL PULSATILE-FLOW LEFT VENTRICULAR ASSIST DEVICE.....	1299
<i>Yu, H. ; Lai, K. ; Lin, S. ; Lee, S.</i>	
HY-15 - DESIGN OF ULTRA-HIGH SPEED AXIAL FLUX PERMANENT MAGNET MACHINE WITH SINUSOIDAL BACK-EMF	1300
<i>Kumar, S. ; Zhao, W. ; Du, Z.S. ; Lipo, T.A. ; Kwon, B.</i>	
HY-16 - INTEGRATED MOTOR PROPULSOR MAGNET DESIGN WITH HALBACH ARRAY FOR TORQUE RIPPLE REDUCTION	1301
<i>Ahn, J. ; Park, C. ; Choi, S. ; Choi, J. ; Jang, S.</i>	
HZ-01 - THE INFLUENCE OF ROTOR SLOT WEDGE CONDUCTIVITY ON TRANSIENT STABILITY OF TURBINE GENERATOR.....	1302
<i>Xu, G. ; Liu, X. ; Luo, Y.</i>	
HZ-02 - CHARACTERISTIC ANALYSIS OF PERMANENT MAGNET SYNCHRONOUS GENERATORS WITH SLOTLESS STATOR STRUCTURE CONSIDERING MAGNETIC/MECHANICAL AIR-GAP USING SEMI-3D ANALYTICAL METHOD	1303
<i>Koo, M. ; Choi, J. ; Jeong, J. ; Seo, S. ; Jang, S.</i>	
HZ-03 - IMPROVED ANALYTICAL MODELING OF AN ELLIPSE-SHAPED PERMANENT MAGNET ROTOR IN ULTRA-HIGH-SPEED SYNCHRONOUS MOTOR BY ELECTROMAGNETIC FIELD THEORY	1304
<i>Jeong, J. ; Choi, J. ; Koo, M. ; Kim, J. ; Jang, S.</i>	
HZ-04 - ANALYTICAL AND EXPERIMENTAL STUDY FOR ELECTROMAGNETIC ANALYSIS OF AXIALLY MAGNETIZED TUBULAR PERMANENT MAGNET MACHINE BY USING VIRTUAL MAGNETIZATION METHOD	1305
<i>Shin, K. ; Shin, H. ; Cho, H. ; Choi, J.</i>	
HZ-05 - EDDY CURRENT LOSS ANALYSIS OF NON-CONTACT MAGNETIC DEVICE WITH PERMANENT MAGNETS BASED ON ANALYTICAL FIELD CALCULATIONS	1306
<i>Min, K. ; Choi, J. ; Cho, H. ; Kim, J.</i>	
HZ-06 - A NUMERICAL DESIGN OF A FREQUENCY-BASED ANALYTICAL MODEL FOR DEMAGNETIZATION DETECTION IN AXIAL FLUX PERMANENT MAGNET SYNCHRONOUS MACHINES	1307
<i>De Bisschop, J. ; Abdallh, A. ; Sergeant, P. ; Dupre, L.</i>	
HZ-07 - MAGNETIC SIMULATIONS OF A FULLY SUPERCONDUCTING 10 MW CLASS WIND GENERATOR BASED ON 3-D FEA	1308
<i>Sun, C. ; Liang, Y.</i>	

HZ-09 - DESIGN AND ANALYSIS OF AN OUTER ROTOR FLUX SWITCHING PERMANENT MAGNET MACHINE FOR ELECTRIC VEHICLE	1309
<i>Liu, C. ; Zhu, J. ; Wang, Y. ; Lei, G. ; Guo, Y. ; Liu, X.</i>	
HZ-10 - A KIND OF ALLOY DESIGNED FOR HSPMG ROTOR SLEEVE	1310
<i>Zhang, X. ; Zhang, H. ; Gerada, C. ; Cao, J. ; Li, J.</i>	
HZ-11 - INVESTIGATION OF ELECTROMAGNETIC TORQUE IN PERMANENT MAGNET SYNCHRONOUS MACHINES WITH FRACTIONAL SLOT CONCENTRATED WINDING	1311
<i>Li, J. ; Zou, J. ; Xu, Y.</i>	
HZ-12 - ANALYTICAL ANALYSIS OF AXIAL FLUX HALBACH PERMANENT-MAGNET MACHINE.....	1312
<i>Jin, P.</i>	
HZ-13 - DESIGN OPTIMIZATION OF A PERMANENT MAGNET MOTOR WITH A MODIFIED HALBACH MAGNETIZATION.....	1313
<i>Yang, L. ; Ho, S.L. ; Fu, W.</i>	
HZ-14 - RESEARCH ON A NOVEL SYNCHRONOUS PERMANENT MAGNET PLANAR MOTOR WITH CONCENTRIC WINDING FOR LITHOGRAPHY	1314
<i>Zhang, L. ; Kou, B. ; Xing, F. ; Jin, Y.</i>	
HZ-16 - OPTIMIZATION ON THE TOOTH TOP SHAPE OF A HIGH SPEED PERMANENT MAGNETIC GENERATOR	1315
<i>Zhang, H. ; Zhang, X. ; Gerada, C. ; Li, J.</i>	
XA-02 - TOPOLOGICAL INSULATORS: THEORY & CONCEPTS.....	1316
<i>Samarth, N.</i>	
XA-03 - TOPOLOGICAL INSULATORS: POTENTIAL DEVICES AND APPLICATIONS.....	1317
<i>Wang, K.L.</i>	
Author Index	