

SYMPOSIUM E

Nanostructured Magnetic Materials and Their Applications

Symposium E(1): Nanostructured Magnetic Materials and their Applications

Level 2, Room 202

Mon, 29-Jun-09	Tue, 30-Jun-09	Wed, 1-Jul-09	Thu, 2-Jul-09	Fri, 3-Jul-09
	(08:30 - 09:15) Plenary Lecture 2 Peter Doherty	(08:30 - 09:15) Plenary Lecture 4 John Pendry	(08:30 - 09:15) Plenary Lecture 6 Hartmut Michel	
(09:00 - 09:45) Opening Ceremony	(09:15 - 10:00) Plenary Lecture 3 Andrew Wee	(09:15 - 10:00) Plenary Lecture 5 Chad Mirkin	(09:15 - 10:00) Plenary Lecture 7 Akihisa Inoue	(09:00 - 09:45) Plenary Lecture 8 Jean-Marie Basset
(09:45 - 10:30) Plenary Lecture 1 Peter Gruenberg	(10:00 - 10:30) Coffee Break			(09:45 - 10:30) Plenary Lecture 9 Frederick Lange
(10:30 - 11:00) Coffee Break				(10:30 - 11:00) Coffee Break
(11:00 - 12:30) Session E1-S1	(10:30 - 12:30) Session E1-S4	(10:30 - 12:30) Session E1-S6	(10:30 - 12:30) Session E1-S9	(11:00 - 13:00) Session E1-S12
(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture James L. Hedrick	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Martyn Poliakoff	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Karl U. Kainer	(12:30 - 14:00) Lunch (13:00 - 14:30) Panel Discussion	(13:00 - 14:30) Closing & Poster Award Ceremony Lunch
(14:00 - 16:15) Session E1-S2	(14:00 - 16:30) Session E-S5 POSTER SESSION	(14:00 - 15:30) Session E1-S7	(14:30 - 16:00) Session E1-S10	
(16:15 - 16:30) Break		(15:30 - 17:30) Session E1-S8	(16:00 - 18:00) Session E1-S11	
(16:30 - 18:00) Session E1-S3				
	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg	(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	(19:00 - 22:00) Conference Banquet @ Suntec	

Symposium E(2): Nanostructured Magnetic Materials and their Applications

Level 2, Room 205

Mon, 29-Jun-09	Tue, 30-Jun-09	Wed, 1-Jul-09	Thu, 2-Jul-09	Fri, 3-Jul-09
	(08:30 - 09:15) Plenary Lecture 2 Peter Doherty	(08:30 - 09:15) Plenary Lecture 4 John Pendry	(08:30 - 09:15) Plenary Lecture 6 Hartmut Michel	
(09:00 - 09:45) Opening Ceremony	(09:15 - 10:00) Plenary Lecture 3 Andrew Wee	(09:15 - 10:00) Plenary Lecture 5 Chad Mirkin	(09:15 - 10:00) Plenary Lecture 7 Akihisa Inoue	(09:00 - 09:45) Plenary Lecture 8 Jean-Marie Basset
(09:45 - 10:30) Plenary Lecture 1 Peter Gruenberg	(10:00 - 10:30) Coffee Break			(09:45 - 10:30) Plenary Lecture 9 Frederick Lange
(10:30 - 11:00) Coffee Break		/	/	(10:30 - 11:00) Coffee Break
(11:00 - 12:30) Session E2-S1	(10:30 - 12:30) Session E2-S4	/	/	/
(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture James L. Hedrick	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Martyn Poliakoff	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Karl U. Kainer	(12:30 - 14:00) Lunch (13:00 - 14:30) Panel Discussion	(13:00 - 14:30) Closing & Poster Award Ceremony Lunch
(14:00 - 16:15) Session E2-S2	(14:00 - 16:30) Session E-S5 POSTER SESSION	/	/	/
(16:15 - 16:30) Break		/	/	/
(16:30 - 18:00) Session E2-S3	/	/	/	/
/	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg	(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	(19:00 - 22:00) Conference Banquet @ Suntec	/

E1-S1

Monday, 29 June 2009

11:00-12:30

Level 2, Room 202

Chairs: Wei D.H & Veeturi Srinivas

11:00 E1-S1.1(O) A00323-00595 pg E18
Induced Magneto-optical Inversion in Bidispersed Magnetorheological Fluid
Rajesh PATEL

11:15 E1-S1.2(O) A00326-00604 pg E18
Magneto-Optical Spectroscopy of Nanostructured Magnetic Materials
Tze Chien SUM, Ali Sucipto TAN, Guo Zhong XING, Song Wee NGIAM, Bangchuan ZHAO, Lan WANG, Tom WU, Cheng Hon Alfred HUAN

11:30 E1-S1.3(O) A00534-00975 pg E25
Fluorescent Magnetic Nanocarrier for Enhanced Two Photon Triggered Drug Delivery
Shashwat S. BANERJEE, Dong-Hwang CHEN

11:45 E1-S1.4(O) A01251-02156 pg E38
Magnetic and Optical Anisotropy in Epitaxial Cobalt Films
Nikolai YAKOVLEV, Nikolai SOKOLOV, Andrey KAVEEV

12:00 E1-S1.5(O) A01495-02602 pg E45
Effect of Particle Size on Magnetic and Magneto-optical Properties of CoFe_2O_4 Nanoparticles
Krishna Surendra MUVVALA, S Ramachandra Rao MAMIDANNA

12:15 E1-S1.6(O) A02176-03739 Pg E63
Single-Crystal Magnetic MFe_2O_4 Nanotubes/ Nanorings Fabricated via Thermal Transformation
HaiMing FAN, Jiabao YI, Yi YANG, K. W. KHO, Z. X. SHEN, Jun DING, X. W. SUN, Malini C. OLIVO, Y. P. FENG

E2-S1

Monday, 29 June 2009

11:00-12:30

Level 2, Room 205

Chairs: Srikanth Hariharan & Sable Sharad

11:00 E2-S1.1-3(KN) A00839-01724 pg E29
Observation and Manipulation of Domain Walls in Soft Magnetic Nanowires
John CHAPMAN, Kerry O'SHEA, Damien MCGROUTHER, Stephen MCVITIE

11:45 E2-S1.4-5(IN) A00248-00463 pg E15
A New Spintronic Material $(\text{Fe,Co})_x\text{-C}_{1-x}/\text{Si}$ Nanostructure
Xiaozhong ZHANG

12:15 E2-S1.6(O) A00312-03065 pg E17
Directional Alignment of FeCo Crystallites in Si/NiFe/Ru/FeCoB Multilayer with High Anisotropy Field above 500 Oe
Ken-ichiro HIRATA, Toshimitsu MATSUU, Shunsuke GOMI, Shigeki NAKAGAWA

E1-S2

Monday, 29 June 2009

14:00-16:15

Level 2, Room 202

Chairs: Bahadur Dharendra & Yakovlev Nikolai

14:00 E1-S2.1(O) A00250-00467 pg E15
Aliovalent-Ion and Magnetic Field Induced Phase Transition in Multiferroic $\text{BiFe}_{1-x}\text{Ti}_x\text{O}_3$ System
Kanhaiya Lal YADAV, Manoj KUMAR

14:15 E1-S2.2(O) A01023-02917 pg E34
Synthesis of Hexagonal Mesoporous Material from Indonesian Natural Bentonite
Yateman ARRYANTO, Syahrul KHAIRI

14:30 E1-S2.3(O) A01961-03394 pg E55
Compositional Dependent Study of Magnetocaloric Effect in La Based Manganites
Suresh Kumar VANDRANGI, Vinayak B. N, Mark LAM, Mahendiran RAMANATHAN

14:45 E1-S2.4(O) A02203-03857 pg E64
Enhanced Magnetic Properties of Polymer Lanthanum Yttrium Iron Garnet Composite
Noorhana YAHYA, Muhammad KASHIF, Nadeem NASIR, Alex SEE

15:00 E1-S2.5(O) A02213-03788 pg E65
Nanostructured Multiferroic Double Perovskite Thin Films
Deepak, Nitin CHOUDHARY, Ritu VISHNOI, Davinder KAUR

15:15 E1-S2.6(O) A02439-04156 pg E71
Effect of Bi Doping on the Electrical, Magnetic and Magnetocaloric Properties of $\text{La}_{0.7-x}\text{Bi}_x\text{Sr}_{0.3}\text{MnO}_3$
Sujit Kumar BARIK, Ramanathan MAHENDIRAN

15:30 E1-S2.7(O) A02901-04960 pg E80
BaW Hexaferrite Precursor in Presence of CTAB and Tween 80: Dielectric and Magnetic Properties
R. B. JOTANIA, R. B. KHOMANE, A. S. DESHPANDE, C. C. CHAUHAN, B. D. KULKARNI

15:45 E1-S2.8(O) A00408-00830 pg E22

Preparation and Characterisation of Copper(II) Complex of 2,2'-[Nonane-1,9-Diylbis(Nitrilomethylidyne)]Diphenol as Spintronic Material

Jia Ti TEE, Norbani ABDULLAH, Kong Mun LO, Hairul Anuar TAJUDDIN

16:00 E1-S2.9(O) A00885-01539 Pg E30

Intrinsic Ferromagnetism in Transition Metal Doped In₂O₃

Bangchuan ZHAO, HuiWen HO, Bin XIA, LiXiu GUAN, ZhiRen XIAO, Jer-Lai KUO, Lan WANG

E2-S2

Monday, 29 June 2009

14:00-16:15

Level 2, Room 205

Chairs: Lai Chih-Huang & Lo Chieh-Tsung

14:00 E2-S2.1-3(KN) A02908-04970 pg E80

Perspectives for 10 Tbits/in² Magnetic Recording
Tow Chong CHONG

14:45 E2-S2.4-5(IN) A02044-03517 pg E57

Large-Area Fabrication of Nano-network to Nano-dot Arrays for High Density Magnetic Recording

M. Tofizur RAHMAN, Chih-Huang LAI

15:15 E2-S2.6(O) A00396-04776 pg E21

Ion Beam Modification of Exchange Coupling to Fabricate Patterned Media

Mojtaba RANJBAR, S.N. PIRAMANAYAGAM, R. SBIAA, K. O. AUNG, Z. B. GUO, T.C. CHONG

15:30 E2-S2.7(O) A00958-04767 pg E32

Ion-implantation Studies on Perpendicular Media

Nikita GAUR, S.N. PIRAMANAYAGAM, C.S. BHATIA, Siegfried L. MAURER, Ronald W. NUNES

15:45 E2-S2.8(O) A01123-05001 pg E36

Nanogranular L10 FePt-C-Ta2O5 Composite Media for Perpendicular Recording Applications

Kelvin M. CHER, J. S. CHEN, B. C. LIM, J. F. HU, P. W. LWIN, B. LIU

16:00 E2-S2.9(O) A01431-02489 pg E42

AFM Study of Nanostructured FePt Thin Films

Pei Ling LOW, Boon Hoong ONG, Mitsunori MATSUMOTO, Teck Yong TOU

E1-S3

Monday, 29 June 2009

16:30-18:00

Level 2, Room 202

Chairs: Chen Dong Hwang & Yi Jiabao

16:30 E1-S3.1(O) A01041-01813 pg E35

Ferromagnetic Nanostructures by Atomic Layer Deposition: From Thin Films towards Core-shell Nanotubes

Julien BACHMANN, Robert ZIEROLD, Kristina PITZSCHEL, Detlef GÖRLITZ, Juan ESCRIG, Dora ALTBIR, Kornelius NIELSCH

16:45 E1-S3.2(O) A01428-02515 pg E42

Magnetron Sputtered Nanostructured Ferromagnetic Shape Memory Alloy Thin Films

Ritu VISHNOI, Ashvani KUMAR, Ajay KAUSHAL, Deepak, Nitin CHOUDHARY, Davinder KAUR

17:00 E1-S3.3(O) A01790-03271 pg E51

Estimation of the Size Distribution of Magnetic Nano-particles Using Magnetization Curve by VSM

Wenzhong LIU, Ming ZHOU, Li KONG, Jingjing CHENG

17:15 E1-S3.4(O) A01802-03150 pg E51

The Mechanism of Magnetic Moment Enhancement in 1-D Bimetallic Multi-Sandwich Molecular Wires

Lei SHEN, Shuo-Wang YANG, Yuanping FENG

17:30 E1-S3.5(O) A01824-03819 pg E52

High Resolution Magnetic Force Microscopy Using Tips with a Narrow Dipole

Ei-Leen TAN, Seidikkurippu Nellainayagam, PIRAMANAYAGAM, Seng Kai WONG, Rachid SBIAA, Kyaw Oo AUNG, Yew Seng KAY

17:45 E1-S3.6(O) A02161-03767 pg E62

Observation of a Cubical-like Microstructure of Strontium Iron Garnet (Sr₃Fe₅O₁₂) and Yttrium Iron Garnet (Y₃Fe₅O₁₂) Prepared via Sol-gel Technique

Noorhana YAHYA, Nadeem NASIR, Muhammad KASHIF, Lee Chaw TENG

E2-S3

Monday, 29 June 2009

16:30-18:00

Level 2, Room 205

Chairs: Zhang Xiaozhong & Sbiaa Rachid

16:30 E2-S3.1(O) A01675-03452 pg E48

Substrate Effects on Magnetic FePt Nanofilm

Pei Ling LOW, Bee Eng YONG, Boon Hoong ONG, Mitsunori MATSUMOTO, Teck Yong TOU

16:45 E2-S3.2(O) A01810-03160 pg E52
Magnetization Reversal of (Co/Pd) Magnetic Nano-dots
Rachid SBIAA, Zhong Hua CHO,
S. N. PIRAMANAYAGAM, Randall LAW,
Seng Kai WONG

17:00 E2-S3.3(O) A02086-03592 pg E59
Magnetic Properties and Phase Change Features in Fe-doped Ge-Sb-Te
Wen-Dong SONG, Lu-Ping SHI, Tow-Chong CHONG

17:15 E2-S3.4(O) A02446-04279 pg E72
CoPt-SiO₂ Perpendicular Magnetic Recording Media with Ru/Ru-SiO₂ Interlayers
Ho PIN, Tang RUJUN, Chen JINGSHENG,
Chow GAN MOOG, Hu JIANGFENG

17:30 E2-S3.5(O) A02457-04194 pg E73
Interlayer Exchange Coupling Effect of L₁₀ CoPt Based Exchange Coupled Composite Media
Yang YANG, Jingsheng CHEN, GanMoog CHOW,
Jiangfeng HU

17:45 E2-S3.6(O) A02933-05013 pg E80
FeTaC Magnetic Soft Underlayer for L₁₀ FePt based Perpendicular Recording Media
Phyoe Wai LWIN, J. F. HU, B. C. LIM, K. M. CHER,
T. J. ZHOU, B. LIU

E1-S4

Tuesday, 30 June 2009
10:30-12:30
Level 2, Room 202

Chairs: Athinarayanan Sundaresan & Nielsch Kornelius

10:30 E1-S4.1-3(KN) A02523-04318 pg E75
Nanomagnets: Poles or no Poles
Chia-Ling CHIEN

11:15 E1-S4.4(O) A00615-01119 Pg E26
Multi-level Storage and Reduction of Spin Transfer Currents in Perpendicular Magnetic Anisotropy Magnetoresistive Devices
Randall LAW, Rachid SBIAA, Ei-Leen TAN,
Thomas LIEW

11:30 E1-S4.5(O) A02146-03698 Pg E61
Effect of Cation Substitution on Magnetic and Magnetoelectric Properties of the BiFeO₃ Perovskite
Vinayak Bharat NAIK, Ramanathan MAHENDIRAN

11:45 E1-S4.6(O) A02446-04175 pg E72
Annealing Atmosphere Effect on the Microstructure and Magnetic Properties of Fe(Co)Pt-TiO₂ Nanocomposite
Tang RUJUN, Chen JINGSHENG, Chow GAN MOOG,
Hu JIANGFENG

pg E6

12:00 E1-S4.7(O) A02560-04654 pg E75
One-dimensional Nanostructured Magnonic Crystals
Z.K. WANG, V.L. ZHANG, H.S. LIM, S.C. NG,
M.H. KUOK, S. JAIN, A.O. ADEYEYE

12:15 E1-S4.8(O) A02741-04714 pg E77
Exchange Bias in Co-Cr₂O₃ Nanocomposites
Muhammad Farooq NASIR, Sadia MANZOOR,
Kevin O'GRADY

E2-S4

Tuesday, 30 June 2009
10:30-12:30

Level 2, Room 205

Chairs: Chapman John & Wang Lan

10:30 E2-S4.1(O) A00821-02095 pg E29
Growth and Magnetic Properties of Fe-Ni based Amorphous Nanocolumns Obtained by Oblique Angle Vapour Deposition
Senoy THOMAS, Salim AL-HARTHI,
Imad AL-OMARI, Raju. V. RAMANUJAN,
M. R. ANANTHARAMAN

10:45 E2-S4.2(O) A01465-02541 pg E44
Magnetic & Electrical Behaviour of Zn Substituted Ferrichromates
Vivek NANOTI

11:00 E2-S4.3(O) A01554-02760 pg E45
DC Electrical Resistivity and Curie Temperature Study of Nanocrystalline Mg-Cd Ferrites
Ashok GADKARI, Tukaram SHINDE,
Pramod VASAMBEKAR

11:15 E2-S4.4-5(IN) A01868-03227 pg E53
Effective Approach for the Remarkable Improvement of Microwave Permeability
Desheng XUE, Xiaolong FAN, Guozhi CHAI,
Huigang SHI

11:45 E2-S4.6(O) A00159-00759 pg E13
Effect of Microstructure on Electrical and Magnetic Properties of Ni-Mg-Zn Nano Ferrites
Rangappa B. PUJAR, Priya P. KULKARNI,
Vaishali R. BOTE, Bantesh K. BAMMANAVAR,
Lalasing R. NAIK, Baburao K. CHOUGULE

12:00 E2-S4.7(O) A00359-01797 pg E20
Size-dependence of Calorimetric Properties of Iron-oxide Nanoparticles for Magnetic Particle Hyperthermia
Mathew KALLUMADIL, Paul SOUTHERN,
Quentin PANKHURST

12:15 E2-S4.8(O) A00477-00881 pg E22
Nanostructured Magnetic Particles with Polystyrene and Their Magnetorheological Applications
 Fei Fei FANG, Hyoungh Jin CHOI

E-S5.09(P) A00356-01266 pg E19
Magnetism at Atomic Level of Nanocrystalline Calcium Hexaferrites
Sharad SABLE, Kishor REWATKAR, Vivek NANOTI

E-S5: Poster Session

Tuesday, 30 June 2009

14:00 - 16:30

Level 3, Gallery

E-S5.01(P) A00039-00040 pg E11
Synthesis and Magnetic Properties Studies of NiS
Lu TIAN, Lee Yong YEP, Tien Teng ONG, Jiabao YI, Jun DING, Jagades J. VITTAL

E-S5.10(P) A00366-01632 pg E20
Excessive-Ferrocene-Induced Fe-Filled Carbon Nanotubes Synthesized by Floating Catalytic Chemical Vapor Deposition and Their Magnetic Property
Jin CHENG, Xiaoping ZOU

E-S5.02(P) A00095-00585 pg E11
Low Temperature Molecular Beam Epitaxy of Ferromagnetic Silicide for Spin-Transistors with SiGe Channel
Masanobu MIYAO, Kohei HAMAYA, Taizoh SADOH

E-S5.11(P) A00381-01485 pg E21
Giant Magneto-impedance Effect of Melt Spun $\text{Co}_{64}\text{Fe}_4\text{Ni}_2\text{B}_{19-x}\text{Si}_8\text{Cr}_3\text{Al}_x$ ($x = 0, 1, 2, \text{ and } 3$) Soft Magnetic Ribbons
Amir KEYVANARA, Reza GHOLAMIPOUR, Shamseddin MIRDAMADI, Farzad SHAHRI, Ali MOHAMADI

E-S5.03(P) A00159-03295 pg E13
Temperature Dependent Resistivity and Microstructure of Mg-Zn Nano Ferrites
Bheemaray B. VANDAL, Bassappa S. MULLUR, Bantesh K. BAMMANAVAR, Rangappa B. PUJAR

E-S5.12(P) A00410-00792 pg E22
The Synthesis and Magnetic Properties of Iron Phosphide Nanorods
Chieh-Tsung LO, Po-Yu KUO

E-S5.04(P) A00189-00368 pg E13
The Structural Properties of Magnetite/Porous silica Nanocomposite and its Applications in Cosmetics
Youngjun YANG, Takjin OH, Hakhee KANG

E-S5.13(P) A00475-00875 pg E22
Electric Polarization in a Rashba Strip Coupled With a Spiral Spin Density Wave
Zhiyong ZHANG, Lang CHEN

E-S5.05(P) A00191-00926 pg E14
Spin Waves in Ferromagnetic Rectangular Arrays
Fu Sheng MA, Hock Siah LIM, Zhi Kui WANG, Ser Choon NG, Meng Hau KUOK, Adekunle Olusola ADEYEYE

E-S5.14(P) A00498-01570 pg E23
Effects of Chromium Substitution on Magnetic Properties of $\text{Bi}_2\text{Fe}_4\text{O}_9$
Yi DU, Zhenxiang CHENG, Shi Xue DOU, Xiaolin WANG

E-S5.06(P) A00256-00893 pg E16
Domain Wall Trapping in Nanoscopic Asymmetric Rings
Xinghua WANG, Wengkung PENG, Wensiang LEW

E-S5.15(P) A00561-02682 pg E25
Magnetic and Hydrogenation Properties of Nanocrystalline $\text{MgCo}_{2-x}\text{Ni}_x$ System
Devendra VYAS, Pragma JAIN, Ankur JAIN, Indra Prabh JAIN

E-S5.07(P) A00262-01681 pg E16
Ferromagnetic and Structural Properties of Fe_3Si Thin Films on Si substrates
Siao Li LIEW, Debbie Hwee Leng SENG, Hui Ru TAN, Dongzhi CHI

E-S5.16(P) A00587-01070 pg E25
Magnetic Properties of Cobalt Nanoparticles Covered by a Polymer Chitozan Molecule
Polina TERESHCHUK

E-S5.08(P) A00274-00559 pg E17
Non-innocent Ligand Metal Complexes: Metal - Organic Magnets
Komala PANDURANGAN, Grace MORGAN, Helge MÜLLER-BUNZ

E-S5.17(P) A00593-01081 pg E26
Spin Polarization and Spin Transport in Ferromagnetic / Organic Structure
 Yilin MI, Ming ZHANG, Hui YAN

E-S5.18(P) A00626-01131 pg E27
A Study of the Relaxation Dynamics of Nanoscopic Magnetic Clusters in Manganite Single Crystals using Femtosecond Time-resolved Spectroscopy
Ali Sucipto TAN, Bang Chuan ZHAO, Edbert Jarvis SIE, Lan WANG, Cheng Hon Alfred HUAN, Tze Chien SUM

- E-S5.19(P) A00650-01163** pg E28
Soft Ferromagnetic $FeSi$ Thin Films by Pulsed Laser Deposition
Catalin-Daniel GOLDNER-CONSTANTINESCU,
Lucian PETRESCU, Ruxandra BIRJEGA,
Horia GAVRILA, Maria DINESCU
- E-S5.20(P) A00908-03988** pg E31
Magnetic and Optical Studies on Chemically Synthesized Co-Doped CeO_2 Nanoparticles
Sabari Arul NARAYANASAMY,
Dhayal Raj ALPHONSE, Seetha MAHALINGAM,
Mangalaraj DEVANESAN, Ponpandian NAGAMONY
- E-S5.21(P) A00949-01668** pg E32
Three-Dimensional Iron-filled Carbon Nanotube Arrays Synthesized by Floating Catalytic Chemical Vapor Deposition
Jin CHENG, Xiaoping ZOU
- E-S5.22(P) A01043-01817** pg E35
Magnetic and Optical Properties of Fe-doped SnO_2 Nanoparticles Synthesized by Hydrothermal Method
Limei FANG, Xiaolin WANG, Xiaotao ZU, Huakun LIU
- E-S5.23(P) A01151-02077** pg E36
Superconductivity according to Densification of MgB_2 using Spark Plasma Sintering Process
Kyoung Rok DO, Sung Hyun CHOI, Su Gun LIM,
In Shup AHN
- E-S5.24(P) A01163-01992** pg E36
Giant Positive Magnetoresistance in $(Fe_{0.2}Ni_{0.8})_{10}C_{90}$ Granular Composites
Guruprasad MANDAL, V. SRINIVAS, V. V. RAO
- E-S5.25(P) A01184-02038** pg E37
The Effect of Thickness on the Texture and Magnetic Properties of Single-layer $FePt$ Films by Rapid Thermal Annealing
Sheng-Chi CHEN, Ta-Huang SUN, Wei-Hang HONG,
Po-Cheng KUO
- E-S5.26(P) A01219-02119** pg E38
Growth of $NiCoFe/Cu/NiCoFe$ Sandwich for Giant Magnetoresistance Material Using Opposed Target Magnetron Sputter
Mitra DJAMAL, Ramli, Yulkifli AMIR, Khairurrijal
- E-S5.27(P) A01230-02110** pg E38
Use of Polymers to Control the Transport Properties of Sintered Magnetite Samples
Viorel SANDU, Stelian POPA, Carmen PLAPCIANU,
Maria Nicoleta GRECU, Elena SANDU,
Nicolae HURDUC, Camelia MIHAILESCU,
Florica DOROFTEI
- E-S5.28(P) A01303-02270** pg E39
Structural and Magnetic Characterization of Multifunctional $CoPtAu$ Nanoparticles
Ji Hyun MIN, Jun Hua WU, Ah Young SONG,
Reasmey TAN, Ji Sung LEE, Young Keun KIM
- E-S5.29(P) A01413-02658** pg E41
Fabrication and Magnetic Properties of Electrospun TiO_2 and $Ti_{1-x}Fe_xO_2$ ($0 \leq x \leq 0.01$) Nanofibers
Wichaid PONHAN, Santi MAENSIRI
- E-S5.30(P) A01427-02611** pg E41
Magnetic and Magnetocaloric Properties of Nanocrystalline $Pr_{1-x}A_xMn_{1-y}Co_yO_3$ ($A = Ca, Sr$) Magnetite
Rabindra Nath MAHATO, Sethupathi K,
Sankaranarayanan V, Nirmala R, S. K. MALIK
- E-S5.31(P) A01441-04097** pg E43
Phase Transition in YBCO Superconducting Material
Umesh GUPTA, Devendra MOHAN,
Sib Krishna GHOSHAL, Karan Singh GILL
- E-S5.32(P) A01451-02516** pg E43
Coating non-Magnetic Metals with Fe_3O_4 - based Magnetic Fluids
DARMINTO, Malik Anjelha BAQIYA,
Tomy HARIYANTO, Suminar PRATAPA,
Sri Yani PURWANINGSIH, Triwikantoro
- E-S5.33(P) A01451-02527** pg E43
Fractal System in Polar Magnetic Fluids Studied by Small Angle Neutron Scattering
DARMINTO, Sistin Asri ANI,
Eddy Giri Rahman PUTRA, Abarrul IKRAM
- E-S5.34(P) A01475-02557** pg E44
 $Ag-Fe_3O_4$ Nanohybrid Heterodimer: A Novel Nanomaterial for Femtosecond and Nanosecond Optical Limiting
Guichuan XING, Wei Ji, Jiang JIANG, Jackie Y. YING
- E-S5.35(P) A01493-02598** pg E44
Nanostructured Magnetite Formation in Borosilicatic Glass
Mirela Sidonia NICOLESCU, Viorel SANDU,
Stelian POPA, Iuliana PASUK, Ionut ENCULESCU,
Simona RADICESCU
- E-S5.36(P) A01593-02972** pg E45
Thermal Induced Magnetic Anisotropy of Fe over Layers on $Pt(110)$ Surface
M. B. HOSSAIN, C. G. KIM, W. KIM, C. Y. HWANG

- E-S5.37(P) A01656-03370 pg E46
Highly Stable Photoluminescent and Magnetic Multilayers Using Nucleophilic Substitution Reaction of Functional Nanoparticles in a Nonpolar Solvent
Bokyoung LEE, Younghoon KIM, Jinhan CHO
- E-S5.38(P) A01661-03127 pg E47
Thermal Process Effect on Microstructure and Magnetic Properties of Epitaxial FePd (001) Multilayer Films
D. H. WEI, S. C. FONG, Y. D. YAO
- E-S5.39(P) A01661-03294 pg E47
Controlled Synthetic Conditions of FePt Nanoparticles with High Magnetization for Biomedical Applications
D. H. WEI, Y. D. YAO, D. S. HUNG, P. H. CHEN, C. S. HO
- E-S5.40(P) A01675-03443 pg E48
Magnetic Tunabling of FeCo and FePt Nanostructures
 Bee Eng YONG, Pei Ling LOW, Boon Hoong ONG, Mitsunori MATSUMOTO, Wah Pheng LEE
- E-S5.41(P) A01726-03008 pg E49
Synthesis and Characterization of Mn-Zn Ferrite Nanoparticles
Sangeeta DAHOTRE, Lakshminarayan SINGH
- E-S5.42(P) A01770-03102 pg E49
Novel Glassy FePbNb Alloys with High Magnetization and Excellent Low Loss Characteristic for Inductor Core Material
Hiroyuki MATSUMOTO, Akiri URATA, Yasunobu YAMADA, Akihiro MAKINO
- E-S5.43(P) A01914-03302 pg E54
Ferromagnetism in Co and F Codoped ZnO and SnO₂ Thin Films
Dinesh PANDYA, Nirat RAY, Umesh WAGHMARE
- E-S5.44(P) A01917-03310 pg E54
Synthesis and Characterization of Silver Selenide Particles and Bulk
Zhicheng ZHONG, Duanming ZHANG
- E-S5.45(P) A01918-04215 pg E54
Magnetic, Electronic, Magneto-Transport and Ordering Phenomena in Nanocrystalline Sm_{0.5}Ca_{0.5}MnO₃ Manganites
S. K. GIRI, T. K. NATH
- E-S5.46(P) A01982-03421 pg E55
Nanostructured SmCo₅ Thin Films with Perpendicular Anisotropy
Lina ZHANG, Jiangfeng HU, Jingsheng CHEN, Jun DING
- E-S5.47(P) A01997-03468 pg E56
Study of Magnetic and Electrical Properties of Nanocrystalline Mn Doped NiO
Philip Raja S, Venkateswaran C
- E-S5.48(P) A02030-04132 pg E57
Effect of Current Density on Magnetoimpedance of Electrodeposited NiFe/Cu
Amaresh MISHRA, Srinivas VEETURI, Awalendra THAKUR
- E-S5.49(P) A02070-03560 pg E58
Magnetic and Electrical Properties of Nickel Nanoparticles Prepared by Polyol Method
Amrut LANJE, Satish SHARMA, Ramchandra PODE
- E-S5.50(P) A02114-03641 pg E60
Self-assembling of Monodispersed Magnetic Cobalt and Iron Nanoparticles
Nurul Hiqmah NORDIN, Boon Hoong ONG, Mitsunori MATSUMOTO, Teck Yong TOU
- E-S5.51(P) A02145-03692 pg E61
Concentration Dependent Magnetism Induced by Hydrogen Adsorption on Graphene and Single-walled Carbon Nanotubes
Weifeng LI, Yuguang MU, Mingwen ZHAO
- E-S5.52(P) A02174-03738 pg E62
Tunable Multi-magnons Interactions in Nanocrystalline NiO_x Granular Films
Sheng Yun WU, Shih Bin LIU, Chih-Yeh HUANG, Chia-Liang CHENG, Ting San CHAN, Hwo-Shuenn SHEU
- E-S5.53(P) A02204-03770 pg E64
Control of Growth and Ordering Process in FePt(001) Film with Reduction of Diffusion Length at 300°C
An-Cheng SUN, Fu-Te YUAN, Jen-Hwa HSU
- E-S5.54(P) A02243-03825 pg E65
Study of the Phase Evolution, Microstructure and Magnetic Properties of Directly Quenched Sm(Co_{0.97}Hf_{0.03})_xC_y (x=5-9; y=0-0.1) Ribbons
 H.W. CHANG, C.S. GUO, C.C. HSIEH, Z.H. GUO, W.C. CHANG
- E-S5.55(P) A02243-03839 pg E66
Effect of Dopants on the Soft Magnetic Properties and High Frequency Characteristics of FeCoBM Thin Films (M= Ti, Nb, Hf, and Ta)
C.C. HSIEH, T.H. LIN, H.W. CHANG, C.W. CHANG, W.C. CHANG, C.C. YANG

- E-S5.56(P) A02253-03842 pg E67
Magnetic Properties, Phase Evolution, and Microstructure of Melt Spun $MM_{9.5}Fe_{78.5}Ti_2B_{10}$ (MM= Mischmetals) Nanocomposites
H.W. CHANG, C.H. CHEN, C.W. CHANG, C.C. HSIEH, W.C. CHANG
- E-S5.57(P) A02253-03863 pg E67
Investigation of Magnetic Properties and Microstructure of Ultrathin Co Films Grown on Si(111)- 7x7 Surface
H.W. CHANG, J.S. TSAY, Y.C. HUNG, W.B. SU, C.S. CHANG, Y.D. YAO
- E-S5.58(P) A02291-03910 pg E68
Current-induced Electroresistance in $Nd_{0.5}Ca_{0.5}Mn_{0.95}Ni_{0.05}O_3$
Alwyn REBELLO, Ramanathan MAHENDIRAN
- E-S5.59(P) A02291-03916 pg E68
Composition Dependence of Magnetocaloric Effect in $Sm_{1-x}Sr_xMnO_3$ (x = 0.3-0.5)
Alwyn REBELLO, Ramanathan MAHENDIRAN
- E-S5.60(P) A02378-04071 pg E69
Preparation of Quaternary Ammonium Group Functionalized Magnetic Nanoparticles
Shu-Jen CHEN, Pei-Chuan HSIEH, Ray-Chi WANG
- E-S5.61(P) A02412-04116 pg E69
NiW/Ru Underlayer for CoPt-SiO₂ Perpendicular Recording Media
Lisen HUANG, Jingsheng CHEN, Jiangfeng HU
- E-S5.62(P) A02412-04251 pg E70
FePt-C Granular Perpendicular Recording Media
Lisen HUANG, Jingsheng CHEN, Jiangfeng HU
- E-S5.63(P) A02422-04147 pg E71
Magnetic Properties of CoPt/Ag and SiN_x/CoPt/Ag Thin Films
Sin Liang OU, Po Cheng KUO, Pai Li LIN, Yen Hsiang FANG, Ger Pin LIN, Sheng Chi CHEN
- E-S5.64(P) A02454-04189 pg E73
Co Doped ZnO by Diffusion Method and its Magnetic Property
W G XIE, Kun XUE, J B XU, R ZHANG
- E-S5.65(P) A02494-04267 pg E74
The Study on the Electromagnet Wave Absorbent Effectiveness of the Honey-comb Structure by the Electronless Nickel Plated Method
Wei-yao CHANG, Kui-chi LEE
- E-S5.66(P) A02522-04316 pg E74
Effect of Structural Characteristics on Ferromagnetism of Nano-scale Metal-oxides
Shih-Yun CHEN, Tzu-Wen HUANG
- E-S5.67(P) A02568-04388 pg E76
Reduction of Switching Field Distribution in Bit-patterned Media with Antiferromagnetically Coupled Recording Layer
Suzi DENG, S.N. PIRAMANAYAGAM, R. SBIAA, K.O. AUNG
- E-S5.68(P) A02639-04532 pg E76
Synthesis of Water-soluble ZnO Nanoparticles Towards Biolabeling Probe
Xiaosheng TANG, Junmin XUE
- E-S5.69(P) A02790-04769 pg E77
Creation of Nanobiocomposite Structure Including DNA and Cobalt Ferrite Nanoparticles
Alexandra PERSHINA, Alexey SAZONOV, Volya ITIN, Olga TERECHOVA, Anna MAGAEVA
- E-S5.70(P) A02798-04788 pg E78
Synthesis of Dense/Hollow Superparamagnetic Silica Composite Microspheres via an Oil-in-DEG Microemulsion Route
Ling LI, Jun DING, Jun Min XUE
- E-S5.71(P) A02848-04877 pg E79
Synthesis and Characterization of Fe₃O₄ Nanoparticles by Sonochemical Coprecipitation Method
Le Van PHONG, CheolGi KIM, Jong-Ryul JEONG
-
- E1-S6**
 Wednesday, 1 July 2009
 10:30-12:30
 Level 2, Room 202
 Chairs: Li Sean & Hou Yanglong
- 10:30 E1-S6.1-2(IN) A01715-02991 pg E48
Universal Surface Ferromagnetism in Nanoparticles of Inorganic Materials
Sundaresan ATHINARAYANAN
- 11:00 E1-S6.3(O) A00765-01605 pg E28
Nanoparticles of Maghemite and Substituted Maghemite ($\gamma-M_xFe_{2-x}O_3$ where M = Al, Cr, Mn, Zn and $0 \leq x \leq 1.3$): A Comparative Study
Nand Kishore PRASAD, Vipul GOHRI, Dulal PANDA, Dharendra BAHADUR

11:15 E1-S6.4(O) A01283-02236 pg E39
High Coercive Field and Magnetization Reversal in Core-shell Cum Nanotwin Driven Ni/NiO Nanospheres
Gunadhor S. OKRAM, Ajay SONI,
Debashibhai T. ADROJA, Niranjan P. LALLA,
Thoudinja SHRIPATHI

11:30 E1-S6.5(O) A01442-02505 pg E43
Magnetic Behavioural Studies of Nano-particles of Substituted Calcium Hexaferrites
Kishor REWATKAR

11:45 E1-S6.6(O) A02090-03600 pg E59
Phase, Morphology and Magnetic Characterisation of Aluminium Substituted Yttrium-iron Garnet Nanoparticles Prepared Using Sol Gel Technique
Noorhana YAHYA, Ramadan AL HABASHI,
Krzysztof KOZIOL, Rafal Dunin BORKOWSKI

12:00 E1-S6.7(O) A02342-04022 pg E68
An Optical Limiter Based on Ferrofluids
Swapna S. NAIR, Jinto THOMAS,
Suchand SANDEEP C.S., Anantharaman M.R.,
Reji PHILIP

12:15 E1-S6.8(O) A02901-04959 pg E79
Structural, Thermal and Magnetic Properties of Ba-Ca Hexaferrite Particles Synthesized by Reverse Micelle and Co Precipitation Routes
C. C. CHAUHAN, K. R. JOTANIA, S. K. MENON,
R. B. JOTANIA

E1-S7

Wednesday, 1 July 2009

14:00-15:30

Level 2, Room 202

Chairs: Xiao John & Pandya Dinesh

14:00 E1-S7.1-2(IN) A01755-03067 pg E49
Attacking Cancer Cell by Heat and Drug via Magnetic Nanoparticulates
Dhirendra BAHADUR

14:30 E1-S7.3(O) A00132-00281 pg E12
Biological Synthesis and Characterization of Cubo-octahedral Nanomagnets
Mohit NARESH, Manish SHARMA, Aditya MITTAL

14:45 E1-S7.4(O) A02804-04810 Pg E78
Effect of Interlayer Diffusion on Magnetic and Transport Properties of Co/Pd-based Pseudo Spin Valves
Taiebeh TAHMASEBI, Randall LAW, Rachid SBIAA, S. N. PIRAMANAYAGAM, Tow-Chong CHONG

15:00 E1-S7.5(O) A01027-01795 pg E34
Suitability of Commercial Colloids in Magnetic Hyperthermia
Paul SOUTHERN, Mathew KALLUMADIL,
Masaru TADA, Takashi NAKAGAWA,
Quentin PANKHURST, Masanori ABE

15:15 E1-S7.6(O) A01391-02424 pg E40
Encapsulated Nickel Nanoparticles: Preparation and Characterization
Vijutha SUNNY, D Sakthi KUMAR,
Yasuhiko YOSHIDA, Magdalena MAKAREWICZ,
Wojciech TABIS, M R ANANTHARAMAN

E1-S8

Wednesday, 1 July 2009

15:30-17:30

Level 2, Room 202

Chairs: S.N. Piramanayagam & Yahya Noorhana

15:30 E1-S8.1(O) A02138-03682 pg E61
Preparation of Biocompatible Iron Oxide Nanorods: *In Vivo* Study on Bio-Distribution and Pharmacokinetics
Bharathi SHIVA, Seetha MAHALINGAM, Nataraj D.,
Mangalaraj D.

15:45 E1-S8.2-3(IN) A01771-03103 pg E50
Intensive Enhancement of Magnetic Properties in Rare Earth and Cobalt Codoped ZnO based Spintronic Materials
Sean LI

16:15 E1-S8.4(O) A00513-00938 pg E24
Energy Efficient Magnetic Nanomaterials
Raju RAMANUJAN, Shekhar BHAME,
Swaminathan VISWANATHAN, Pratap DEHERI,
Shashwat SHUKLA, Liu YAN, Jia YAN, Zhongwu LIU

16:30 E1-S8.5(O) A00876-01835 pg E30
Controlled Synthesis of Anisotropic Magnetic Nanocrystals
Luihui ZHANG, Yanglong HOU

16:45 E1-S8.6(O) A00900-01585 pg E30
Microwave-induced Dehydration of Autocombustion Barium Ferrite Nanoparticles
Ahmad NURUDDIN, Suyatman, Novrita IDAYANTI

17:00 E1-S8.7(O) A01002-02653 pg E33
Novel Reduction Diffusion Synthesis of Nd₂Fe₁₄B
Shekhar BHAME, Pratapkumar DEHERI,
Viswanathan SWAMINATHAN, Raju RAMANUJAN

17:15 E1-8.8(O) A02466-04214 pg E73
Ferromagnetism Induced by Amorphous Phase in $Zn_{1-x}Al_xO$ Film
Yuwei MA, Jun DING, Jiabao YI, Tun Seng HERNG,
Chee Mang NG, Nina BAO, Xuelian HUANG

E1-S9

Thursday, 2 July 2009
10:30-12:30

Level 2, Room 202

Chairs: Stamps Robert L. & Liu Kai

10:30 E1-S9.1-2(IN) A01869-03228 pg E53
Surface Anisotropy and Tunable Exchange Bias in Magnetic Nanostructures
Hariharan SRIKANTH

11:00 E1-S9.3(O) A00113-00328 pg E12
Synthesis, Characterization and Magnetic Properties of Zn Substituted Li-Ni Nano Ferrites
Ravinder G. KHARABE, Bantesh K. BAMMANAVAR,
Baburao K. CHOUGULE

11:15 E1-S9.4(O) A00528-00983 pg E24
Anomalous Magnetic Behavior in $Fe_2VAl_{1-x}B_x$ Heusler Alloys
Srinivas VEETURI, Vasundhara MUTTA,
Vasudeva Rao V., Chandrasekhar-Rao TURUMELLA

11:30 E1-S9.5(O) A01004-04213 pg E33
Fe:TiO₂ Nanosystem: Within and Beyond the Solubility Limit
Tushar JAGADALE, Pravarthana D, M. IKRAM,
Amit CHAWLA, R CHANDRA, B LEFEZ,
B HANNOYER, Satishchandra OGALÉ

11:45 E1-S9.6(O) A01330-02500 pg E40
Enhancement of Ferromagnetic Behavior in Cu Doped ZnO:Fe
Khalil ZIQ, Afef ISMAIL, Ahmed SALEM,
Shakeel AHMED, Ayman GHANNAM

12:00 E1-S9.7(O) A01602-03126 pg E46
Room Temperature Ferromagnetism in Co-doped Titania Thin Films
Sudesh SHARMA, Sujeet CHOUDHARY,
Neeraj PANWAR, Subhash KASHYAP, Dinesh PANDYA

12:15 E1-S9.8(O) A02071-03683 pg E58
On the Ferromagnetism in Nanocrystalline ZnO:Ni
Vidhi GOYAL, Kanwal Preet BHATTI,
Sujeet CHAUDHARY

E1-S10

Thursday, 2 July 2009

14:30-16:00

Level 2, Room 202

Chairs: Wang Jian-ping & Tan Ei Leen

14:30 E1-S10.1(O) A02071-04108 pg E58
Giant Magnetoresistance and X-ray Reflectivity Studies in Ion-beam Sputtered Co/Cu Multilayers
Uday SINGH, Priyanka GUPTA, Braj Bhushan SINGH,
Kanwal Preet BHATTI, Sujeet CHAUDHARY

14:45 E1-S10.2(O) A02191-03751 pg E63
Heat Treatment Effect on Magnetic and Magnetoresistance of Mn-doped Si Thin Films
Lan Anh TRAN THI, Hyeong Kyu LIM,
Young Eon IHM, Dojin KIM, Hyojin KIM, Jin Hee KIM,
Jung Won CHANG, Van Dai NGUYEN

15:00 E1-S10.3(O) A02346-04027 pg E69
Electrical Spin Injection from TiO₂:Co into Si(100)
Edy SUPRIYANTO, Aip SARIPUDIN,
Budi MULYANTI, Pepen ARIFIN,
Moehamad BARMAWI

15:15 E1-S10.4(O) A02421-04160 pg E70
Room-Temperature Ferromagnetism of Undoped and Transition Metal Doped TiO_{2-δ} Nanobelts Grown by Metalorganic Chemical Vapor Deposition
Nguyen THI QUYNH HOA, Zonghoon LEE,
Velimir RADMILOVIC, Eui-Tae KIM

15:30 E1-S10.5(O) A02499-04427 pg E74
Transport and Magnetotransport Properties of the Diluted Magnetic Semiconductor Mn-doped GaAs with a Quantum Well InGaAs
Ljudmila SHCHUROVA, Vladimir KULBACHINSKII

15:45 E1-S10.6(O) A02715-04666 pg E77
Magnetism Study of p and n Type Doped ZnO Thin Films by Sol-gel Method
Daxue XIA, Jianbin XU, Rong ZHANG

E1-S11

Thursday, 2 July 2009

16:00-17:45

Level 2, Room 202

Chairs: Chen Jingsheng & Ziq Khalil

16:00 E1-S11.1(O) A02834-04854 pg E78
Effect of Vanadium Content on Magnetic Properties of Doped ZnO Thin Films
Liwei WANG, Fujun ZHANG, Zheng XU,
Suling ZHAO, Lifang LU, Xurong XU

16:15 E1-S11.2(O) A01772-03104 pg E50
Giant Magnetoimpedance in Ferromagnetic and Antiferromagnetic Oxides
Mahendiran RAMANATHAN

16:30 E1-S11.3-4(IN) A02991-05112 pg E81
Vortex State Reversal in Artificially Structured Nanomagnets
Kai LIU

17:00 E1-S11.5-6(IN) A01861-03217 pg E53
Spin and Charge Pumping in Magnetic Tunneling Structures
T MORIYAMA, W.G. WANG, R CAO, X FAN, J KOLODZEY, S.H. CHEN, C.R. CHANG, Y TSERKOVNYAK, B.K. NIKOLIC, John Q. XIAO

17:30 E1-S11.7-8(IN) A02230-03871 pg E65
Nanoscale Spin Torque Transfer Materials, Devices and Systems: From Memory to Computation
Jian-Ping WANG, Xiaofeng YAO, Andrew LYLE, Yisong ZHANG, Hui ZHAO

E1-S12

Friday, 3 July 2009

11:00-13:00

Level 2, Room 202

Chairs: Xue Desheng & Ramanathan Mahendiran

11:00 E1-S12.1-3(KN) A00928-01651 pg E31
Spin Current, Charge Current, Heat Current and Spin-Electronics
Sadamichi MAEKAWA

11:45 E1-S12.4-5(IN) A02567-04387 pg E75
Control of Magnetization Dynamics Using Patterned Structures
Robert L. STAMPS, K. L. LIVESEY, M. KOSTYLEV, P. J. METAXAS

12:15 E1-S12.6(O) A00190-00920 pg E14
Measurement of Spin Dynamics of a Triangular Nanomagnet
Cheng Sheng LIN, Hock Siah LIM, Chen Chen WANG, Adekunle Olusola ADEYEYE, Zhi Kui WANG, Ser Choon NG, Meng Hau KUOK

12:30 E1-S12.7(O) A00103-01380 Pg E12
Single Step Synthesis of Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications
Dipak MAITY, Jun DING, Jun-Min XUE

12:45 E1-S12.8(O) A02108-03633 Pg E60
Highly Textured Growth of $Mn_{1-x}Zn_xFe_2O_4$ Film on Glass Substrate
Jiabao YI; Jun DING; Xuelian HUANG
