

# Two days Conference on Advanced and Functional Materials

1-2 Mar. 2012

## Schedule for poster presentation

Mar. 1, 2012, 16:45 - 18:00: P1 – P22

Mar. 2, 2012, 14:00 -15:30: P23 – P40

P1: Vertically aligned ZnO nanorods for hybrid photovoltaic applications, Narendar G, S.P Mondal, T Rakshit and S.K Ray

P2: What drives charge ordering in  $K_{0.25}CrO_2$ , a microscopic model, Abhinav Kumar, A.K. Nandy and Priya Mahadevan

P3: How solvent relaxation in reverse micellar nano-pool relates the interfacial morphology: A spectroscopic investigation in DDAB/cyclohexane/water systems, Animesh Patra and Rajib Kumar Mitra

P4: Cubic ( $Im\bar{3}m$ ) Mesoporous Alumina Films and Incorporation of Au Nanoparticles, Anuradha Mitra, Debrina Jana, Goutam De

P5: Shape transition in nanoscale endotaxial  $CoSi_2$  on Si (100), J. C. Mahato<sup>1</sup>, Debolina Das, R. Batabyal, Anupam Roy, R. R. Juluri, P. V. Satyam, and B. N. Dev

P6: Temperature and polarization dependent Raman studies on InAs nanowires

Jaya Kumar Panda and Anushree Roy

P7: Filled Carbon Nanotubes: Synthesis and Application, Joydip Sengupta, C. D. Mukherjee and K. K. Bardhan

P8: Superparamagnetic behavior of ball-milled Cu-TiO<sub>2</sub> mixture, M.Ray, M. Sardar, S. Banerjee

P9: PREPARATION OF GRAPHITE OXIDE FROM NATURAL GRAPHITE FLAKES, Venkanna Meriga and Amit K. Chakraborty

P10: Melting point suppression of Metallic (Zn) Nanowires, Sabyasachi Ghosh, A. K. Raychaudhuri

P11: Orbital ordering in  $\text{FeV}_2\text{O}_4$ : Spinel with two orbitally active sites, Soumyajit Sarkar and T. Saha-Dasgupta

P12: Synthesis and characterizations of Silver/Polyaniline nanocomposites, Javed R. Mandal and S. Bhattacharya

P13: To orient magnetic organic molecules in a monolayer: Transport gap and electrical bistability vis-à-vis the molecular orientation, Sudipto Chakrabarti, Sukumar Dey, and Amlan J. Pal

P14: A first principles density functional investigation of ligand-protected eight atom gold nanoclusters, Swarnakamal Mukherjee, Prof. Tanusri Saha-Dasgupta

P15: 3C-SiC thin films on Si substrates for electronic and MEM applications, Vinita Mittal, Afzal Khan, Damodar Devarakonda, Chacko Jacob

P16: Effective mass driven structural transition in Mn-doped ZnS nanodisk, Ruma Das, Celine Gerard, Priya Mahadevan and D.D. Sarma

P17: PVC-encapsulated MR suspension of magnetite: synthesis and rheological characterization, Md. Injamamul Arief, P. K. Mukhopadhyay

P18: Superparamagnetic type blocking in Ni-Mn-Sn-Al Ferro-magnetic shape memory alloy, Sandeep Agarwal and P. K. Mukhopadhyay

P19: A new hat for passivating ligands used during growth in semiconductor nanocrystals, Saikat Debnath, Roby Cherian and Priya Mahadevan

P20: Organic memory effects with [6, 6]-phenyl- $\text{C}_{61}$  butyric acid methyl ester in polymethyl methacrylate polymer matrix, J. Satyanarayana, S. Pradhan, and A. Dhar

- P21: Coexistence of high temperature ferromagnetism and ferroelectricity in doped tetragonal BaTiO<sub>3</sub> single crystals, Tanushree Chakraborty, V. K. Verma, A. Fujimori and Sugata Ray
- P22: Electronic Structure Modification of Ni<sub>2</sub>Mn<sub>1.4</sub>Sn<sub>0.6</sub> Upon Martensitic Phase Transition, Sandeep Singh, Ganesh Adhikary, D. Biswas, Kalobaran Maiti, and C. Biswas
- P23: The Effect of Edge Pinning on the Spectrum of Spin Waves in Magnonic Antidot Waveguides, Dheeraj Kumar, J. W. Klos, J. Romero-Vivas, M. Krawczyk and A. Barman
- P24: Micromagnetic Simulations of Domain Wall Dynamics in Ferromagnetic Nanostripe, A. Ganguly, A. Barman and S. Barman
- P25: Growth and Magnetic characterization of 1D Permalloy Nanowires using self developed AAO templates, A.K. Singh, G.G Khan, B. Das, K. Mandal
- P26: Destruction Of Ferromagnetism In Cu-doped ZnO Upon Annealing: Role Of Oxygen Vacancy, B. Ghosh, M. Sardar, S. Banerjee
- P27: Terahertz Emission from [Co/Pd]<sub>8</sub> Multilayers Associated with Laser Induced Ultrafast Demagnetization, Debanjan Polley, Semanti Pal, Olav Hellwig, Rajib K. Mitra and Anjan Barman
- P28: Magnetite Hollow Spheres, Debasish Sarkar, Kalyan Mandal, Madhuri Mandal
- P29: Fabrication of functional oxide nanowires of La<sub>0.5</sub>Sr<sub>0.5</sub>MnO<sub>3</sub> and elemental analysis by Electron Energy loss spectroscopy (EELS), Subarna Datta, Barnali Ghosh, A.K.Raychaudhuri
- P30: Probing spin glass phase using cooling and heating in unequal field (CHUF) protocol, K. Bagani, B. Ghosh, M. Sardar, S. Banerjee
- P31: Influence of the Exchange Spring Behavior on the Spin-wave Dynamics of the FePt/FeNi Bilayers with Varying FeNi Thickness, Semanti Pal, Saswati Barman, Olav Hellwig, Debanjan Polley and Anjan Barman
- P32: Spin Wave Dynamics in 2D Artificial Nanomagnetic Lattice Effect of Lattice Symmetry

P32: Susmita Saha, Ruma Mandal, Saswati Barman, Dheeraj Kumar, Bivas Rana<sup>1</sup>, Y. Fukuma, Satoshi Sugimoto, Yoshichika Otani, and Anjan Barman

P33: Experimental and Theoretical Studies on Disordered Fe<sub>70</sub>Al<sub>30</sub> Alloy, Tanmoy Ghosh, Abhijit Mookerjee, S. Banerjee and P. K. Mukhopadhyay

P34: Multiferroic properties in Pr and Cr co-doped BiFeO<sub>3</sub> nanotubes fabricated by template assisted route, Rajasree Das, Gobinda Gopal Khan and Kalyan Mandal

P35: Normal modes of magnetization dynamic of square array of cross shaped magnetic dots, Bipul Kumar mahato, Bivas Rana, Ruma Mandal, Dheeraj Kumar, Satoshi Sugimoto, Yasuhiro Fukuma, Yoshichika Otani, and Anjan Barman

P36: Ultrafast Spin Dynamics in 2-D Nanoscale Magnonic Crystals: Anisotropy in Collective Modes, Bivas Rana, Dheeraj Kumar, Saswati Barman, Semanti Pal, Ruma Mandal, Satoshi Sugimoto, Yasuhiro Fukuma<sup>2</sup>Yoshichika Otani, and Anjan Barman

P37: Synthesis and magnetic properties of monodisperse CoFe<sub>2</sub>O<sub>4</sub> nanoparticles by a simple hydrothermal technique, A Chaudhuri and K Mandal

P38: What happens to ferroelectricity when you dope carriers?, Hirak Kumar Chandra, Kapil Gupta and Priya Mahadevan

P39: Ultra thinfilms: A new route to ferroelectricity, Kapil Gupta , Priya Mahadevan and Marjana Lezaic

P40: Tunable High Frequency Magnonic Spectra in Two Dimensional Arrays of Nanoscale Magnetic Antidots, R. Mandal, S. Saha, D. Kumar, S. Barman, S. Pal, K. Das, A. K. Raychaudhuri, Y. Fukuma and Y. Otani and A. Barman