



YOUNG SCIENTISTS' COLLOQUIUM YSC 2016



16 September, 2016

Venue: Foyer of Boson and Fermion Lecture Halls, SNBNCBS

POSTER SESSION

SL. NO.	TITLE	NAME & AFFILIATION
P1	Spin-orbital liquid state assisted by singlet-triplet excitation in $J = 0$ ground state of $Ba_3ZnIr_2O_9$	Abhishek Nag Department of Material Science, Indian Association for the Cultivation of Sciences, Kolkata
P2	Synthesis and biocompatibility study of nano crystalline hydroxyapatite from <i>Mercenaria</i> clam shells	Anindya Pal Indian Institute of Engineering Science and Technology, Shibpur, Howrah
P3	The Structural Properties Based On $WO_3/SiO_2/p$ -Si Sensing Element and the Effects of Annealing Temperatures	Anup Dey Jadavpur University, Kolkata
P4	Nano-heterostructures: Interface as a Quantum Device	Arup Chakraborty Department of Solid State Physics, Indian Association for the Cultivation of Science, Kolkata
P5	Multiferroic studies on geometrically frustrated "114" cobaltites	C. Dhanasekhar Department of Physics, Indian Institute of Technology, Kharagpur
P6	Electrochemical Behavior and Mechanical Integrity of Few Layers Graphene upon Lithiation / Delithiation	Farjana J. Sonia Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology (IIT) Bombay
P7	Composite of Colloidal Graphene - Titanium nitride Nanocrystals for Plasmonic, Electrical conductivity and Elctrocatalytic Applications	G. Shiva Shanker Department of Chemistry, IISER - Pune
P8	Observation of transient superconductivity at $LaAlO_3/SrTiO_3$ interface	Gopi Nath Daptary Department of Physics, Indian Institute of Science, Bangalore
P9	Colloidal, Ligand-free semiconductor nanocrystals for optoelectronics	Metikoti Jagadeeswararao Department of Chemistry, IISER-Pune
P10	Strength-toughness optimization by incorporating functionalized metal oxides within jute polyester composites	Jaideep Adhikari Indian Institute of Engineering Science and Technology, Shibpur, Howrah

SL. NO.	TITLE	NAME & AFFILIATION
P11	Theoretical and experimental investigations on surface plasmon resonance assisted interferometric fringe modulation under both radial and lateral shearing environment with application in sensing	Jayeta Banerjee University of Calcutta, Kolkata
P12	Defect mediated n-type behaviour of unintentionally doped ZnO nanorods: correlating defects, emission spectra, morphology and conductivity	K. Bandopadhyay Indian Institute of Science Education and Research, Thiruvananthapuram
P13	Tuning of Edge and Surface Energy of TiO ₂ Nanotubes via Partial Rupture by Controlling Anodization Voltage for Gas Sensor Device Applications	Koushik Dutta Indian Institute of Engineering Science and Technology, Shibpur, Howrah
P14	Functionalized Nanocomposite Cathode to Enhance the Stability of Solid Oxide Fuel Cell Performance	Koyel Banerjee (Ghosh) CSIR-Central Glass and Ceramic Research Institute, Kolkata
P15	A study of inorganic metal halide perovskites and their application in opto-electronic devices	Lekha Peedikakkandy Centre for Research in Nanotechnology and Science, IIT Bombay
P16	Low field magnetoresistance of polycrystalline Gadolinium for different spatial dimensions (Bulk, Film and Nanowire)	Manotosh Chakravorty S. N. Bose National Centre for Basic Sciences, Kolkata
P17	Visible Light Activity and Thermoelectric Performance of Aluminium Doped Zinc Oxide / Polyaniline (AZP) Hybrid	Mousumi Mitra Department of Physics, Indian Institute of Engineering Science and Technology, Shibpur, Howrah
P18	First-principles Design of 2D Nanostructures for Efficient Storage of Hydrogen and Fuel Cell Catalysis	Paramita Banerjee Department of Materials Science, Indian Association for the Cultivation of Science, Kolkata
P19	Artificial Leaf as Future Energy Harvesting Tool	Priyam Mitra Dept. of Chemical Engineering, Haldia Institute of Technology, Purba Medinipur
P20	Protein induced structural modulation in phospholipid model membranes: An x-ray scattering study	R P Giri Saha Institute of Nuclear Physics, Kolkata
P21	Pd/RGO/TiO ₂ Nanotube Ternary Hybrid Structure as a Novel Gas Sensor Device	Sanghamitra Ghosal Indian Institute of Engineering Science and Technology, Howrah
P22	Reduced Band-gap Ferroelectric Materials for Photovoltaic Application	Shyamashis Das Indian Institute of Science, Bangalore

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P23	Photo-voltaic and catalytic Performance of Anatase TiO ₂ Nanocubes with Coexposed {101} and {001} facets	Soumita Mukhopadhyay CSIR-Central Glass and Ceramic Research Institute, Kolkata
P24	Low Threshold Quantum Dot Lasers	Veena Hariharan Iyer Indian Institute of Science, Bangalore

(Abstracts available at <http://newweb.bose.res.in/Conferences/YSC2016/>)