

(11) Hybrids and Composites

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DETAILED PROGRAMME

Wednesday, 18-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	<u>Wolfgang Schmitt</u> , Lei Zhang, Nianyong Zhu and Camelia I. Onet	ABS - 1653 - ICA Supermolecular Approaches to Nanoscopic Coordination Cages, Clusters and High-Surface Area Coordination Networks
10.45 - 11.00 Oral (1)	<u>Pradip Paik</u> , Vijay Bhooshan Kumar Aharon Gedankeri	ABS - 594 - ICA Synthesis of Triangular core shell ZnO@SiO ₂ nanoparticles and its spectroscopic confinement
11.00 - 13.15 Oral (2)	<u>P. Thomas</u> and V. Asaithambi	ABS - 160 - ICA Effect of particle size on the dielectric behaviour of Poly (vinylidene fluoride)-CaCu ₃ Ti ₄ O ₁₂ composites

Session II : 11.45 – 13.15

11.45 - 12.15 Invited Talk (2)	Hoi Lam Tam, Xizu Wang and <u>Furong Zhu</u>	ABS - Email - ICA Integration of organic optoelectronic devices and application
12.15 - 12.45 Invited Talk (3)	Mitsuyoshi Onoda	ABS - Email - ICA New Fabrication Method of Conductive Polymer/Fullerene Composite Film for Organic Photovoltaic Cells
12.45 - 13.00 Oral (3)	<u>Jianchu Zhong</u> , Li Ji, Jun Zhu, Yunxia Cui and Hongzhi Wang	ABS - 185 - ICA Surface Modification of Colemanite and its application as Flame Retardant Fillers in Ethylene Vinyl Acetate Composite
13.00 - 13.15 Oral (4)	<u>P. Remith</u> and N. Kalaiselvi	ABS - 197 - ICA Synthesis of Performance Improved Li ₂ [Mn _{2.9} Ni _{0.9} Co _{0.2}]O ₈ MWCNT Composite Cathode: A Newer Approach

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (4)	<u>Anjan Barman</u>	ABS - 1039 - ICA Nanoscale Magnonic Crystals: A New Paradigm towards Microwave Communications
16.30 - 16.45 Oral (5)	Prasad S. Upasini, V.G. Gaikar and <u>Neetu Jha</u>	ABS - 509 - ICA Synthesis of Zinc Oxide-Carbon nanotube Nanocomposite for Catalytic Applications
16.45 - 17.00 Oral (6)	<u>Nidhi Adhlakha</u> and K.L. Yadav	ABS - 573 - ICA Effect of PbTiO ₃ Addition on Structural Multiferroic and Optical Properties of 0.3CoFe ₂ O ₄ -0.7Bi _{0.9} La _{0.1} FeO ₃ Ceramics

17.00 - 17.15 Oral (7)	<u>Monalisa Pal and Kalyan Mandal</u>	ABS - 741 - ICA Surface Modification of Manganese-ferrite Nanoparticles to Impart Novel Optical and Catalytic Properties
17.15 - 17.30 Oral (8)	<u>S.P. Radhika, K.J. Sreeram, Balachandran Unni Nair</u>	ABS - 843 - ICA Rare earth based inorganic cool pigments for surface coating applications
17.30 - 17.45 Oral (9)	<u>S. Veerapandian, A. Sultan Nasar</u>	ABS - 885 - ICA Topologically new hybrid material with controlled molecular architecture: Synthesis of dendritic-linear hybrid multi-armed polymers using TEMPO end-capped and TEMPO anchored dendritic polyurethane core
17.45 - 18.00 Oral (10)	<u>Lili Zhang, Jiahui Zhang</u>	ABS - 919 - ICA Magnetically separable Attapulgite-TiO ₂ -Fe _x O _y nanocomposites with superior photocatalytic properties towards the degradation of methyl orange under visible light radiation

Thursday, 19-12-2013

Session IV : 16.00 – 18.00

16.00 - 16.30 Invited Talk (5)	<u>Amitava Patra</u>	ABS - 1511 - ICA Exciton-Plasmon Interactions in Hybrid Nanostructures
16.30 - 16.45 Oral (11)	<u>Lakshmi V., T.P.D. Rajan, C. Pavithran and B.C.Pai</u>	ABS - 922 - ICA Self-assembling behaviour of Polystyrene-alumina nano composite
16.45 - 17.00 Oral (12)	<u>Anisha Chaudhary, Ashish Gupta, S.R. Dhakate and R.B. Mathur</u>	ABS - 983 - ICA Bending strength improvement of carbon fiber composites modified interface with electrospun carbon nanofibers
17.00 - 17.15 Oral (13)	<u>Jammula R. Krishna, Rotte N. Kumar and Vadali V.S.S. Srikanth</u>	ABS - 1112 - ICA Dielectric Behaviour of CuO Decked Few-Layered Graphene
17.15 - 17.30 Oral (14)	<u>Debalaya Sarkar, S. Ghosh, D.K. Avasthi, D. Kabiraj, and P. Srivastava</u>	ABS - 1149 - ICA Swift heavy ion induced structural modification of Metal-insulator nanogranular films: An EXAFS study
17.30 - 17.45 Oral (15)	<u>Devika Choudhury and Shaibal K. Sarkar</u>	ABS - 1328 - ICA Growth, Stability and Electrical Conductivity Study of Zinconc Films deposited by Atomic and Molecular Layer Deposition
17.45 - 18.00 Oral (16)	<u>Anil Kumar Pal and D. Bharathi Mohan</u>	ABS - 1442 - ICA Surface Plasmon and Exciton Interaction in ZnO/Ag Nanocomposite Structure

Poster Session :**Wednesday, 18-12-2013, 14.00 - 15.30**

11 - Poster - 01	Xiuli Hu, Weiliang Zhou	Effect of modification on the thermal and rheological properties of boron	ABS - 120 - ICA
11 - Poster - 02	B. Rajeswari, M. Mohapatra, N.S. Hon, R.M. Kadam and S.V. Godbole	Structural Investigation of Eu Incorporated La- α -Alanine Complex by Photoluminescence	ABS - 148 - ICA
11 - Poster - 03	Xiaxi Yao, Xiaoheng Liu, Qiaofeng Han, Dongping Sun	Enhanced photocatalytic hydrogen evolution over CdS-sensitized TiO ₂ nanocrystals under visible light irradiation	ABS - 155 - ICA
11 - Poster - 04	Wengfeng Zhu, and Xiaoheng Liu	Synthesis of ATP/Au nanocomposite as peroxidase mimic for the Rapid and Sensitive detection of H ₂ O ₂	ABS - 156 - ICA
11 - Poster - 05	P. Thomas and K.B.R. Varma	Dielectric behavior of Polycarbonate (PC) / CaCu ₃ Ti ₄ O ₁₂ (CCTO) composite sheets fabricated via melt mixing	ABS - 160 - ICA
11 - Poster - 06	Muhammad Faisal, Sreekanth J Varma KC Sajjan and Syed Khasim	Polyaniline-stannous oxide composites for EMI shielding and humidity sensing applications	ABS - 230 - ICA
11 - Poster - 07	Haribandhu Chaudhuri, Sauradip Chaudhuri and Ashis Sarkar	Development of Si-MCM-41 based UV rays absorbing windows	ABS - 248 - ICA
11 - Poster - 08	Ch. Thirimal, Chiranjib Nayek, P. Murugavel and V. Subramanian	Investigation of magnetoelectric effect in PVDF-La _{0.7} Sr _{0.3} MnO ₃ nanocomposite films	ABS - 262 - ICA
11 - Poster - 09	Arijit Sinha and Partha Protim Chattopadhyay	Nanomechanical Behavior of Cryogenically Rolled Martensitic TiNi Alloy	ABS - 293 - ICA
11 - Poster - 10	S. Dinesh Kumar, G. Ramesh and V. Subramanian	Magnetoelectric studies in PINT-NZFO based laminate composites	ABS - 298 - ICA
11 - Poster - 11	A. Murali, N. Haridharan, A. B. Mandal and S. N. Jaisankar	Functionalization of Single-Walled Carbon Nanotubes with Analgesic Agent Based Polymer for Effective Dispersion and Antiviral Studies	ABS - 477 - ICA
11 - Poster - 12	N. Malarvizhi, B. Rajeswari, G. T. Sentil Andavan, S. N. Jaisankar	Light-weight flexible carbon nanotube based polyvinyl acetate composites with improved conductivity	ABS - 477a - ICA

11 - Poster - 13	Dipa Dutta, D. Bahadur	Iron Oxide – Silica Composite for Enzyme-free Urea Sensor	ABS - 523 - ICA
11 - Poster - 14	K.H. Thulasi Raman, G. Mohan Rao	Stress and mechanical properties of polycrystalline ceramic TiC and TiC/a-C composite thin films	ABS - 529 - ICA
11 - Poster - 15	Jyothi M S, Mahesh Padaki and R. Geetha Balakrishna	An Environmentally Feasible Photoreduction of Chromium (VI) Via PSf/TiO ₂ Composite membrane	ABS - 535 - ICA
11 - Poster - 16	Jyoti Rani, K.L.Yadav and Satya Prakash	Multiferroic Properties of Lead-Free (1-x)(Bi _{0.5} Na _{0.5})NbO ₃ /xCoFe ₂ O ₄ Composites	ABS - 574 - ICA
11 - Poster - 17	Vijay Petley, S. Sathishkumar, K. H. Thulasi Raman, G Mohan Rao, U. Chandrasekhar	Electrical resistivity and indentation hardness evaluation of the Ni-Cr alloy thin films with compositions ranging the binary phase alloy diagram	ABS - 588 - ICA
11 - Poster - 18	Sudagar Jothi, Sujith Ravindran and Ravi Kumar	Corrosion behavior of Polymer Derived Ceramics in Aqueous Hydrofluoric acid and Na-salts	ABS - 602 - ICA
11 - Poster - 19	A.K. Shukla, Ravi Shankar and RMVGK Rao	Electrodeposited Epoxy-Bentonite Nanocomposite - A Novel Functional Material	ABS - 717 - ICA
11 - Poster - 20	Richa Sharma and R.P. Tandon	Study of dielectric and magnetic properties of BaTiO ₃ - Ni _{0.9} Co _{0.1} Fe ₂ O ₄ multiferroic composites	ABS - 778 - ICA
11 - Poster - 21	B. De, S. Barua and N. Karak	Hyperbranched epoxy nanocomposites as outstanding tough, transparent and adhesive material for multipurpose applications	ABS - 787 - ICA
11 - Poster - 22	Abhijit De	Correlated Features in Polymer based Magnetic Nanocomposites	ABS - 840 - ICA
11 - Poster - 23	Ramesh Kumar and Amarjeet Kaur	Synthesis of polypyrrole-tin oxide (PPy-SnO ₂)nanohybride for gas sensing applications	ABS - 874 - ICA
11 - Poster - 24	Narendra N. Ghosh, Amit B. Rajput, Subhenjit Hazra, Sampat R. Vadera, Manoj K. Patra, Harshawardhan V. Pol	Preparation of Flexible Magnetic Nanocomposite Sheets Composed of Magnetic Nanoparticles-Polybenzoxazine-LLDPE	ABS - 969 - ICA
11 - Poster - 25	Gobinda Gopal Khan, Debasish Sarkar, Ashutosh K. Singh and Kalyan Mandal	Enhanced photoluminescence and ferromagnetism in Au nanoparticle anchored -Fe ₂ O ₃ Nano-heterostructures	ABS - 973 - ICA

11 - Poster - 26	Siddharth Kaushik, Sukhbir Singh, Shriniwas Yadav, Vanish Kumar and Inderpreet Kaur	Synthesis & Characterization of p-doped Nanocomposite comprising Chemically Converted Graphene and SWCNTs for High Performance Conductors	ABS - 979 - ICA
11 - Poster - 27	Rajeev Kumar, R.B. Mathur and S.R. Dhakate	Improved absorption of electromagnetic radiation in resin based light weight carbon foam by nanostructuring	ABS - 983 - ICA
11 - Poster - 28	K.S. Hemalatha, K. Rukmani, Ramakrishna Damle, B.M. Nagabhushana	Dielectric and ac conductivity studies in PVA-ZnO Nanocomposite films	ABS - 1030 - ICA
11 - Poster - 29	Pallavi Arod, S.A.Shivashankar	Nanostructured Carbon-Metal Oxide Composites from Metalorganic Complexes through Inert-ambient CVD	ABS - 1153 - ICA
11 - Poster - 30	N. Sato, Y. Oba and M. Sugiyama	Small-Angle Scattering Analysis of Thermoresponsive Behavior of Radiation-Fabricated Porous Binary Hydrogels	ABS - 1156 - ICA
11 - Poster - 31	P. Tamilarasan and S. Ramaprabhu	Copper nanoparticle decorated graphene as efficient cathode electrocatalyst for electrochemical carbon dioxide conversion	ABS - 1183 - ICA
11 - Poster - 32	Abhishek Das and Gautam Sarkhel	Studies on Synthesis & Physicochemical Characterizations of Epoxidised Phenolic Novolac (EPN) Resins with different Stoichiometric Ratios & their effects on Thermomechanical & Morphological Properties	ABS - 1257 - ICA
11 - Poster - 33	Neetesh Kumar, Vamsi K. Komarala Viresh Dutta	In-Situ Synthesis of Au-CdS Plasmonic Photocatalyst by Continuous Spray Pyrolysis and its Visible Light Photocatalysis	ABS - 1279 - ICA
11 - Poster - 34	Meher Wan, P.K.Dhawan, A.K. Srivastava, R.K. Yadav	Synthesis and Frequency Dependent Dielectric Properties of Polymer Nanocomposites Reinforced with Polyaniline Nanofibers	ABS - 1351 - ICA
11 - Poster - 35	D. Smita Revankar Jyoti C. Ajbani, M. Revanasiddappa and Veerabhadra Swamy	Microwave assisted synthesis, structural elucidation and biological significance of 6(trifluoromethoxy) benzothiazole-2-amine derived 2-hydroxy naphthaldehyde and their first row d-transition metal chelates	ABS - 1399 - ICA
11 - Poster - 36	Jyoti C. Ajbani, D. Smita Revankar, M. Revanasiddappa and Veerabhadra Swamy	Microwave Synthesis, Spectroscopic, Thermal and Biological Studies of some Transition Metal Complexes containing Heterocyclic Ligand	ABS - 1399a - ICA
11 - Poster - 37	Mathias B. Lawrence, J.A.E. Desa and V.K. Aswal	Structural Changes due to Holmium doping in PVA-Borax Gels	ABS - 1403 - ICA

11 - Poster - 38	Mohana Lakshmi and Syed Khasim	Synthesis, characterization and DC conductivity Study of Ortho-Chloropolyaniline-NiTiO ₃ composites	ABS - 1473 - ICA
11 - Poster - 39	A. Nithya and K. Jothivenkatachalam	Synthesis, Characterization and Photocatalytic activity of Copper-Oxide Chitosan nanocomposite	ABS - 1517 - ICA
11 - Poster - 40	Partha Mahata	Large Scale Synthesis and uses of a Cobalt based Metal - Organic Frameworks (MOFs) as Liquid Water Sensor	ABS - 1555 - ICA
11 - Poster - 41	V.P. Dinesh, S.P. Suriyaraj, R. Selvakumar, P. Biji	Enhanced Antibacterial Activity of Hybrid ZnO@Ag Heterojunction Core-Shell Nanorods against <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> and <i>Pseudomonas spp.</i>	ABS - 1682 - ICA