

**(11) Hybrids and Composites,
Hybrids including Biomass Based Materials**

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DETAILED PROGRAMME

Wednesday : 14-12-2016

Session I : 12.00-13.15

12.00-12.30 Invited Talk (1)	<u>Venkataiah Gorige</u> Mitsuru Itoh Tomoyasu Taniyama	ABS-482-ICYRAM Strain Assisted 180° Magnetization Switching in Fe/BaTiO ₃ (110) Heterostructure
12.30-12.45 Oral (1)	<u>Rahul Purbia</u> Santanu Paria	ABS-78-ICYRAM Au/AgBr-Ag Heterostructure as Visible Light Induced Plasmonic Photocatalyst
12.45-13.00 Oral (2)	<u>Y. Rambabu</u> Manu Jaiswal Somnath C Roy	ABS-85-ICYRAM Probing the charge recombination in rGO decorated mixed phase (anataserutile) TiO ₂ multi-leg nanotubes
13.00-13.15 Oral (3)	<u>Nisha Kero</u> R. K. Soni	ABS-92-ICYRAM Local electric field enhancement in carbon shelled silver nanoparticles

Thursday : 15.12.2016

Session-II : 14.15-15.45

14.15-14.45 Invited Talk (2)	<u>Teruaki Fuchigami</u>	ABS-Email-ICYRAM Hybrid magnetic nanomaterials designed for biomedical applications
14.45-15.15 Invited Talk (3)	<u>Drew R Evans</u>	ABS-269-ICYRAM Advances in the Fabrication of Conducting Polymers
15.15-15.30 Oral (4)	Sharbani Kaushik Pranab Goswami	ABS-110-ICYRAM CdTe quantum dots decorated silk fibroin with graphene blend enhances light to current conversion efficiency of <i>Synechococcus</i> sp. biofilm grown on graphite anode in photo-microbial fuel cell
15.30-15.45 Oral (5)	<u>K. Bramhaiah</u> Indu Pandey S. Angappane Vidya N. Singh Neena S. John	ABS-138-ICYRAM Thin hybrid films of reduced graphene oxide-Fe ₂ O ₃ nanostructures: Synthesis, magnetic properties and supercapacitor applications

Thursday : 15.12.2016
Session-III : 16.00-18.00

16.00-16.30 Invited Talk (4)	<u>Abhishek Dey</u>	ABS-Email-ICYRAM Electrochemical Water Splitting with Bio-Inspired Catalysts
16.30-16.45 Oral (6)	<u>Pradip Kumar</u>	ABS-271-ICYRAM Graphene-based materials for ultrahigh-thermal conductivity and high-performance electromagnetic interference shielding
16.45-17.00 Oral (7)	<u>S. Dey, S. Santra</u> A. Ghorai , A. Midya, P. K. Guha, S. K.Ray	ABS-369-ICYRAM Synthesis of RGO/NiO hierarchical nanocomposite for enhanced nitric oxide sensing at room temperature
17.00-17.15 Oral (8)	<u>Debanjan Das</u> Karuna Kar Nanda	ABS-383-ICYRAM Co2P capped Carbon Nanotubes for Total-water Splitting
17.15-17.30 Oral (9)	<u>N V R Vikram G</u> M. S. Bobji S. Mohan	ABS-747-ICYRAM Studies on the shape recovery of NiTiCu films under the influence of contact stresses

Poster Session I :
Thursday: 15.12.2016: Time: 10.15-13.15

11-Poster-01	Ankita Ojha Pardeep K. Singh Dhanesh Tiwary Pradeep K. Mishra	ABS-32-ICYRAM UV based Photocatalytic treatment of Methyl tertiary-Butyl Ether (MTBE) contaminated water using TiO ₂ - Reduced Graphene Oxide nanocomposites as a photocatalyst
11-Poster-02	Y C Madhukumar Umashankar	ABS-62-ICYRAM Evaluation of sliding wear behaviour of glass particulate reinforced aluminium matrix composites
11-Poster-03	Rupali Das R. K. Soni	ABS-69-ICYRAM Synthesis of hybrid Au-In ₂ O ₃ Nanoparticles by Laser Ablation
11-Poster-04	Prabal Sen Durgesh Kar S. Kasiviswanathan	ABS-121-ICYRAM Photoluminescence study in AuNP-Indium oxide hybrid nanostructure
11-Poster-05	A S Asalatha S Ramaprabhu	ABS-132-ICYRAM High volumetric capacity compact hydrogen storage material using Graphite based composite.

11-Poster-06	Rajeev Kumar Balaram Sahoo	ABS-140-ICYRAM Raman spectroscopy studies on carbon encapsulated core-shell iron/iron carbide for catalytic applications
11-Poster-07	K P Ashik Ramesh S Sharma	ABS-258-ICYRAM Mechanical Characterization of Glass Fiber and Natural Fiber Reinforced Hybrid Bio-Composites
11-Poster-08	Royal Madan	ABS-280-ICYRAM Bio-inspired innovations in designing novel products
11-Poster-09	Deepak Sahu Priyaranjan Mohapatra Sarat K Swain	ABS-358-ICYRAM Sodium alginate assisted nano silver imprinted polyvinyl alcohol nanocomposites thin films for Hg ²⁺ sensor
11-Poster-10	Pramod K Sethy Kalyani Prusty Trilochansatopathy Sarat K Swain	ABS-363-ICYRAM Nano clay imprinted starch hybrid Polyethylhexylacrylate\Polyvinyl alcohol nanocomposite thin films
11-Poster-11	L Selvarajan R. Aravind, S Arun P Mouri, V Murali	ABS-514-ICYRAM Optimization of Rotary EDM Parameters on Machining of Si ₃ N ₄ -TiN Conductive Ceramic Composite for Improving Geometrical Errors
11-Poster-12	L Selvarajan R. Aravind B Singaravel M Ranjith R Ramesh Raja G Jeeva	ABS-517-ICYRAM Investigations on Tool Wear and Surface Quality of Electrical Discharge Machining of Ceramic Composites - A Review
11-Poster-13	Saravanan Krishnan Anju Chadha	ABS-518-ICYRAM Yeast-gold nanocatalyst: A good combination for the chemoenzymatic synthesis of optically pure aminoarene alcohols
11-Poster-14	L Selvarajan R Aravind P Mouri	ABS-563-ICYRAM Modelling and Experimental Investigation of Process Parameters in EDM of MoSi ₂ -SiC Conductive Ceramic Composites Using GRA-RSM
11-Poster-15	A V Anupama Rajeev Kumar V Kumaran B. Sahoo	ABS-580-ICYRAM Development of ferrite based fluids with improved magnetorheological response

11-Poster-16	V Mydhili S.Manivannan	ABS-589-ICYRAM Dielectric Properties of PVA/H3PO4, PVA/PEDOT:PSS and PVA/PEDOT:PSS/H3PO4 Gel Electrolyte System
11-Poster-17	Subhra Jana	ABS-673-ICYRAM Clay Nanocomposites for Moisture Induced Carbon Dioxide Trapping from Ambient Air
11-Poster-18	B V Lingesh B N Ravi Kumar B M Rudresh	ABS-685-ICYRAM Mechanical Characterization of Hybrid Thermoplastic Composites
11-Poster-19	V. Perumal DEVARAJAN, Devaraj NATARAJ, Thangavel PAZHANIVEL	ABS-692-ICYRAM A Novel Chemical Synthesis Approach for White Light Emitting Inorganic/Organic Hybrid Nanophosphors: A Study on their Optical Properties for WLED Application
11-Poster-20	K. Logesh V.K.Bupesh Raja Deepak Singh Y.Hanesh Kumar	ABS-704-ICYRAM Fabrication and Mechanical Characterization of Epoxy based Glass Fibre Reinforced FML Hybrid Composites
11-Poster-21	D. Dhanunjaya Raju V. V. Subba Rao	ABS-708-ICYRAM Deflection and vibration control of Quasi Isotropic Laminated Plates Excited by smart Piezoelectric Actuators with Variable Thickness Ratios
11-Poster-22	K. Logesh V.K.Bupesh Raja Dhananjay Kumar Pandey, Gokulakrishna. R	ABS-710-ICYRAM Impact and Flexural Resistance of Polypropylene Reinforced Aluminium based Sandwich Sheet
11-Poster-23	N. Lakshmana Reddy V. Navakoteswara Rao M.V. Shankar	ABS-717-ICYRAM Core/Shell structured CdS/TiO2 photocatalysts for efficient hydrogen production
11-Poster-24	A Jaya Prakash N Nishad Fathima J Raghava Rao	ABS-719-ICYRAM Temperature and pH tunable copolymer based hydrogels
11-Poster-25	A. Anto Jeffery M. Rajamathi	ABS-743-ICYRAM Titanate nanosheets and nanoribbons through exfoliation of amine intercalated titanates