

(18) Hybrids including Biomass based Materials

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DETAILED PROGRAMME

Thursday, 19-12-2013

Session I : 16.00 – 18.00

16.00 - 16.30 Invited Talk (1)	<u>Nicholas M. Thomson</u> Jo-Ann Chuah and Keiji Numata	ABS - 1512 - ICA Increasing the range and performance of polyhydroxyalkanoates
16.30 - 17.00 Invited Talk (2)	<u>Dr. Basudeb Saha</u>	ABS - Email - ICA Biorenewable Solid Acid Catalyst for the Preparation of High Value Chemicals and High Octane Fuels from Lignocellulose
17.00 - 17.30 Invited Talk (3)	Prakash <u>P. Wadgaonkar</u>	ABS - Email1 - ICA Cashew Nut Shell Liquid (CNSL): A Versatile Renewable Raw Material of Great Industrial Promise
17.30 - 17.45 Oral (1)	<u>H. Honzawa</u> S. Tanaka and M. Iji	ABS - 321 - ICA Development of Cardanol-bonded Cellulosic Bioplastics to be Used Durable Products
17.45 - 18.00 Oral (2)	D. Srinivas Rao S. Bhuvaneshwari and <u>Dr. Raj Kishora Dash</u>	ABS - 126 - ICA Investigation on the effect of functionalized materials on Stable Nanofluids of γ -Al ₂ O ₃ , CuO and CNT Nanomaterials Dispersed Biodiesel:
18.00 - 18.15 Oral (3)	<u>Kunal Bhardwaj</u>	ABS - 678 - ICA Exploring energy enhancement options of OPV using appropriate solvent concentration of Thorium and P3HT: PCBM

Friday, 20-12-2013

Session II : 10.15 – 11.45

10.15 - 10.45 Invited Talk (4)	<u>Hideki ABE</u>	ABS - Email2 - ICA Molecular and Material Designs of Biomass Polymers
10.45 - 11.15 Invited Talk (5)	<u>Masatoshi Iji</u> Dr. Eng.	ABS - Email3 - ICA Highly Functional Bioplastics Used for Durable Products : Polylactic Acid Composites and Cardanol-Bonded Cellulose Resin
11.15 - 11.30 Oral (4)	<u>P. K. Kulriya</u> B.R.Mehta Praveen Kumar S. M. Shivaprasad D. K. Avasthi	ABS - 1215 - ICA A hydrogen sensor based of thin films of Pd nanoparticle dispersed in a-carbon
11.30 - 11.45 Oral (5)	<u>Kharade P.M</u> Chavan S G Salunkhe D.J. Joshi P.B Mane S.M and Kulkarni S.B.	ABS - 608 - ICA Synthesis and Characterization of Pani/MnO ₂ by-layer Electrode and it's Electrochemical Supercapacitor Properties

Session III : 11.45 – 13.15

11.45 - 12.15 Invited Talk (6)	Suddhasatwa Basu	ABS - Email4 - ICA Role of Hybrid Nanocatalyst Support on Electro Oxidation in Fuel Cell
12.15 - 12.45 Invited Talk (7)	Samit K. Ray	ABS - 1614 - ICA One Dimensional Hybrid Nanostructures for Photovoltaic Devices
12.45 - 13.00 Oral (6)	Y.Kumar and S. A. Hashmi	ABS - 721 - ICA The Effect of Cobalt Hydroxide Doping on the Capacitive Performance of Graphene with Gel Polymer Electrolyte
13.00 - 13.15 Oral (7)	Saratchandra Babu Mukkamala, Nagaraju Narayanam and Kranthi Kumar Gangu	ABS - 147 - ICA Design and hydrothermal synthesis of Mg-MOF and Co-MOF for H ₂ storage

Session IV : 14.00 – 15.30

14.00 - 14.30 Invited Talk (8)	<u>Rie Nakamura</u> , Shouhei Sakurda, Koichi Goda	ABS - Email - ICA Estimation of Migration Structure in Ramie Twisted Yarn and its Mechanical Properties
14.30 - 14.45 Oral (8)	York R. Smith and Mano Misra	ABS - 290 - ICA Effect of Mn ²⁺ or Co ²⁺ Doping on the Photoelectrochemical Response of CdS Sensitized Titania Nanotubular Arrays
15.00 - 15.15 Oral (9)	Neha Mahuli S. Anand Selvin and Shaibal K Sarkar	ABS - 443 - ICA Atomic layer deposition of Sb ₂ S ₃ and its application in solid state sensitized solar cells

**Poster Session :
Thursday, 19-12-2013**

18 - Poster - 01	Nagaraju Narayanam, Kranthi Kumar Gangu and Saratchandra Babu Mukkamala	Impregnation of fullerenes into a novel magnesium (II) Metal-Organic Framework (MOF) material to improve hydrogen storage capacity	ABS - 147 - ICA
18 - Poster - 02	S. Manoharan and S. Anandan	Molecular design and performance of Benzimidazole with cyanovinyl thiophene based sensitizers for Dye Sensitized Solar Cells	ABS - 904 - ICA
18 - Poster - 03	Tanvi Gujarati, A.G.Ashish, P.M.Aneesh A.G. Manoj and M.M. Shaijumon	TiO ₂ /ZnO hybrid nanowires for energy applications	ABS - 1031 - ICA
18 - Poster - 04	Mohammad Faisal, Anshul Gupta, Kantesh Balani and Anandh Subramaniam	Magnesium based hybrids via Accumulative Roll Bonding for Hydrogen Storage	ABS - 1254 - ICA
18 - Poster - 05	M.Kovendhan, D.Paul Joseph P.Manimuthu, S.N.Karthick, Hee Je Kim, C. Venkateswaran and R. Mohan	Dye Sensitized Solar Cell using spray deposited WO ₃ thin film	ABS - 1344 - ICA
18 - Poster - 06	Ajit K. Katiyar, Arun K. Sinha and S.K. Ray	Fabrication of Si/Ge nanowire composites for hybrid solar cells	ABS - 1479 - ICA