

## **(16) Inorganic PV**

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**DETAILED PROGRAMME****Thursday, 19-12-2013****Session I : 10.15 – 11.15**

10.15 - 10.45 Invited Talk (1)	<u>S. Saravanan</u>	<b>ABS - Email - ICA</b> Technology and Manufacturing of Crystalline Silicon Solar Cell
10.45 - 11.00 Oral (1)	<u>Bandana Singha</u> and Chetan Singh Solanki	<b>ABS - 530 - ICA</b> Isotopic analysis and characterization of boron spin on dopant (BSOD) diffused emitters in <i>n</i> -type c-Si solar cells
11.00 - 11.15 Oral (2)	<u>Sangho Kim</u> Nagarajan Balaji Vinh Ai Dao Chonghoon Shin Anh Huy Tuan Le and Junsin Yi	<b>ABS - 179 - ICA</b> The Ratio of $V_{oc/ext}$ to $V_{oc/impl}$ as an Indicator for the Back Side of Heterojunction Silicon Solar Cell Optimization

**Session II : 11.45 – 13.15**

11.45 - 12.15 Invited Talk (2)	<u>Naoteru Shigekawa</u> Jianbo Liang and Noriyuki Watanabe	<b>ABS - Email1 - ICA</b> Application of Surface Activated Bonding for Fabricating Multi Junction Solar Cells
12.15 - 12.45 Invited Talk (3)	<u>Tetsuo Soga</u> Takuya Kondoh Akinori Mimuro Naoki Kishi and Yasuhiko Hayashi	<b>ABS - 430 - ICA</b> Fabrication and characterization of all-carbon photovoltaic device
12.45 - 13.00 Oral (3)	<u>Ravi Prakash Srivastava</u> and Sarang Ingole	<b>ABS - 301 - ICA</b> Characterization of iron-pyrite thin films prepared by the sulfurization of SILAR deposited magnetite ( $Fe_3O_4$ ) thin films
13.00 - 13.15 Oral (4)	<u>Swaroop Rao</u> Suhas EP and Dr. B.S. Satyanarayana	<b>ABS - 431 - ICA</b> Plasmonic solar cells using unconventional nanoparticles

**Friday, 20-12-2013****Session III : 10.15 – 11.15**

10.15 - 10.45 Invited Talk (4)	<u>N. Balaji</u> , C. Park J. Raja, M. Ju J. Cho, J. Jung S. Lee, J. Kim and J. Yi.	<b>ABS - 179 - ICA</b> Enhanced Surface Passivation by Sol-Gel processed MgO for c-Si Solar Cell Applications
10.45 - 11.00 Oral (5)	<u>Eshwar Thouti</u> A K Sharma and Vamsi K Komarala	<b>ABS - 1169 - ICA</b> Silver nanoparticles for plasmonic application in crystalline silicon solar cells

11.00 - 11.15 Oral (6)	<u>Sanjay K Sardana</u> Venkata Surya N Chava and Vamsi K Komarala	<b>ABS - 809 - ICA</b> Enhanced light trapping in textured silicon solar cells using metal nanoparticles' surface plasmons
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#### Session IV : 11.45 – 13.15

11.45 - 12.15 Invited Talk (5)	<u>Partha Chaudhuri</u>	<b>ABS - 1138 - ICA</b> Electrical conduction mechanism through a superlattice of silicon quantum dot embedded silicon carbide layers
12.15 - 12.45 Invited Talk (6)	<u>Pavan Kumar Bijalwan</u> N. A. Wadibhasme Pankaj Modi Monojit Dutta and R.O. Dusane	<b>ABS - 1286 - ICA</b> Silicon nitride thin films as the dielectric barriers for flexible a-Si:H thin film solar cell on steel substrate
12.45 - 13.00 Oral (7)	<u>M Z Ansari</u> and Neeraj Khare	<b>ABS - 36 - ICA</b> Synthesis of single phase CZTS thin film by CVD and Its use for solar cell
13.00 - 13.15 Oral (8)	<u>S. Sen</u> P. Pramanik P. K. Guha and P. Banerji	<b>ABS - 1278 - ICA</b> Chemical Synthesis of $\beta$ -FeSi <sub>2</sub> Microparticles for Solar Cell Application

#### Session V : 16.00 – 18.00

16.00 - 16.30 Invited Talk (7)	<u>R. Vijayaraghavan</u>	<b>ABS - 381 - ICA</b> ZnO based Transparent Conducting Oxides for Solar Cells
16.30 - 16.45 Oral (9)	<u>T. Narayana</u> Y.P. Venkata Subbaiah P. Prathap	<b>ABS - 880 - ICA</b> Two Step Growth Mechanism of Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin films
16.45 - 17.00 Oral (10)	<u>Dr. Bratindranath Mukherjee</u>	<b>ABS - 1426 - ICA</b> Reduced graphene oxide screen/CdS on ZnO nanorod CdS: A unique dual-layer architecture demonstrating improved photo (electro) catalytic properties and multifunctionality
17.00 - 17.15 Oral (11)	<u>R. Panda</u> , M. Panda H. Rath, D. Nanda B.N. Dash, U.P. Singh N.C. Mishra	<b>ABS - 1448 - ICA</b> Growth of AgInSe <sub>2</sub> Phase by Selenization of Ag In Multilayers
17.15 - 17.30 Oral (12)	<u>Sreekanth Mandati</u> Bulusu V. Sarada Suhash R. Dey Shrikant V. Joshi	<b>ABS - 1554 - ICA</b> Fabrication of Stoichiometric CIGS Thin-films by Pulse Reverse Electrodeposition
17.30 - 17.45 Oral (13)	<u>S. Sunil Kumar</u> Brajesh Tiwari M. Krishna Surendra and M.S.Ramachandra Rao	<b>ABS - 1629 - ICA</b> Light induced phase change in Cu <sub>2-x</sub> Zn <sub>1.3</sub> SnS <sub>4</sub> thin films

**Poster Session :****Thursday, 19-12-2013, 14.00 - 15.30**

16 - Poster - 01	M. Anantha Sunil, K.G. Deepa, N.L. Shruthi and J. Nagaraju	Effect of Substrate Temperature on Physical Properties of Chemical Sprayed AgInS <sub>2</sub> Films	<b>ABS - 279 - ICA</b>
16 - Poster - 02	N.L. Shruthi, K.G. Deepa, M. Anantha Sunil and J. Nagaraju	Cu(In, Al)Se <sub>2</sub> thin films by Electrodeposition of Sulphate based Precursors	<b>ABS - 280 - ICA</b>
16 - Poster - 03	Chirantan Roy Choudhary Niladri Biswas, Mukut Chakraborty, Tanmoy Ghorai	Ruthenium-Schiff Base Complex for Dye-Sensitized Solar Cell	<b>ABS - 286 - ICA</b>
16 - Poster - 04	Aditya PRakash Saxena, Ravi Prakash Srivastava, Sarang Ingole	Study of iron pyrite (FeS <sub>2</sub> ) nanocrystals prepared by hot injection method	<b>ABS - 472 - ICA</b>
16 - Poster - 05	Ratna Chauhan, U.P. Mulik, Sunit B.Rane, Govind Umarji and Lal Bahadur	Sheet like TiO <sub>2</sub> Prepared by a novel route and its application in Dye-sensitized solar cell	<b>ABS - 614 - ICA</b>
16 - Poster - 06	Rambabu Kuchi, Jong-Ryul Jeong	Fabrication of Lead Sulfide Nanocrystal Quantum Dot Solar Cells with Trenched ZnO via Nanoimprinting	<b>ABS - 660 - ICA</b>
16 - Poster - 07	K. Saranya, A. Subramania	Development of Pt-decorated exfoliated graphene as a newer counter electrode for high performance dye-sensitized solar cell	<b>ABS - 754 - ICA</b>
16 - Poster - 08	Digamber G. Porob	Flux Synthesis of Bulk and Thin Film CIGS for Potential Applications in Solar Cells	<b>ABS - 758 - ICA</b>
16 - Poster - 09	Sawanta S. Mali, Sachin A. Pawar, Vishal V. Burungale, Tejaswini S. Bhat, Chang Kook Hong, Jin Hyeok Kim, Pramod S. Patil	Electrospun anatase TiO <sub>2</sub> nanofibers for efficient Dye sensitized solar cells	<b>ABS - 803 - ICA</b>
16 - Poster - 10	Kailash R. Nemade and Sandeep A. Waghuley	Studies of Photovoltaic Properties of Nanocomposites Films of TiO <sub>2</sub> -Graphene	<b>ABS - 1194 - ICA</b>
16 - Poster - 11	Dip K. Nandi and Shaibal K. Sarkar	Mo(CO) <sub>6</sub> as a precursor towards the low temperature Atomic Layer Deposition of Mo <sub>2</sub> S <sub>3</sub> and MoN	<b>ABS - 1467 - ICA</b>
16 - Poster - 12	J.S. Bhat and P.V. Raghavendra	Structural and Optical Properties of CuO thin films Deposited by Thermal Evaporation	<b>ABS - 1518 - ICA</b>

16 - Poster - 13	J.R. Ray and T.K. Chaudhuri	Deposition of Molybdenum Thin Films by DC Sputtering	<b>ABS - 1545 - ICA</b>
16 - Poster - 14	Chia-Hsun Hsu, Shui-Yang Lien, I-Shun Lin, In-Cha Hsieh and Chia-Fu Chen	Effect of Laser scribing process on translucent silicon-based thin film solar modules and applications	<b>ABS - Email - ICA</b>
16 - Poster - 15	S. Kokate and D. Baghmar	Structural and thermal properties of Chemically deposited CdS thin film	<b>ABS - Email 1 - ICA</b>