

**IUMRS-ICYRAM 2016**

**BEST POSTER AWARDS**

**Oxide Electronics**

02-Poster-05	Shwetha G Bhat P. S. Anil Kumar	<b>ABS-345-ICYRAM</b> Efficient electrical spin injection and detection using 3-terminal Fe <sub>3</sub> O <sub>4</sub> devices
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**III-V and II-VI**

03-Poster-02	Alakananda Das Pushan Guha Roy Chirantan Singha Anirban Bhattacharyya	<b>ABS-202-ICYRAM</b> Selective Growth of ZnO Nanowires on Silicon Micro-Pyramidal Structures
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**Grapheme and Analogues**

04-Poster -22	Pooja D, Baban Bansod Manoj K. Nayak	<b>ABS-Email-ICYRAM</b> 0-D Carbon Quantum Dots for Highly Sensitive and Selective Heavy Metalloids Sensing
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**Photonic Materials**

06-Poster-06	R Rakesh Kumar K Narasimha Rao K Rajanna	<b>ABS-223-ICYRAM</b> Growth of Indium Tin oxide (ITO) Nanowires by Electron Beam Evaporation Method
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**Nanomaterials Synthesis and solutions route**

07-Poster-03	P M Neema Jobin Cyriac	<b>ABS-58-ICYRAM</b> One Pot Synthesis of Highly Luminescent MoS <sub>2</sub> Quantum Dots Interspersed in Nanosheets
07-Poster-16	Raji Vadakkekara Asit Baran Panda	<b>ABS-382-ICYRAM</b> Black Titanium Oxide Nano Sheets: Solution Phase Synthesis and Characterization

### Nanomaterials Devices and applications

08-Poster-30	Neeti Keswani YoshikaTa Nakajima Neha Chauhan Tomofumi Ukai, Sakthi Kumar Pintu Das	<b>ABS-375-ICYRAM</b> High-Sensitive magnetic field sensors for nano-magnetic applications
08-Poster-56	Rani Mary Joy Vandana Singh Mayank Gupta Manoj Kumar Pandey Akhilesh Kumar Sharma Shubham Pandey Trapti Mudgal, Anshu Gaur Deepak Gupta Ashutosh Kumar Tripathi	<b>ABS-Email-ICYRAM</b> High performance IGZO TFTs with mobility > 20 cm <sup>2</sup> /Vs

### Magnetics and Spintronics

10-Poster-13	K. Umadevi Abhishek Talapatra J. Arout Chelvane S. V. Kamat V. Jayalakshmi	<b>ABS-167-ICYRAM 2016</b> Magnetic Microscopy and Magnetostriction Studies in Tb-Fe-Co Films
10-Poster-24	Rabindranath Bag Koushik Karmakar Surjeet Singh	<b>ABS-409-ICYRAM</b> Single Crystal Growth and Properties of Spin Ladders: a new class of low-Dimensional Quantum Magnets

### Hybrids and composites, hybrids including biomass based materials

11-Poster-16	V Mydhili S.Manivannan	<b>ABS-589-ICYRAM</b> Dielectric Properties of PVA/H <sub>3</sub> PO <sub>4</sub> , PVA/PEDOT:PSS and PVA/PEDOT:PSS/H <sub>3</sub> PO <sub>4</sub> Gel Electrolyte System
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### Ferroics

12-Poster-02	Tanushree Sarkar Suja Elizabeth P. S. Anilkumar	<b>ABS-427-ICYRAM</b> Investigation of multiferroicity in LuMn <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>3</sub>
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### Photovoltaics

16-Poster-01	Nisha Singh N Sivasankar A Subramania	<b>ABS-51-ICYRAM</b> Quaternary Cu <sub>2</sub> ZnSnSe <sub>4</sub> quantum dots sensitized electrospun nanoporous TiO <sub>2</sub> nanofibers as photoanode for QDSSC
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### Batteries, Fuel cells and supercapacitors

17-Poster-19	Arthi Gopalakrishnan Parikshit Sahatiya Sushmee Badhulika	<b>ABS-399-ICYRAM</b> Electrospun mesoporous silica templated hybrid carbon nanofibers for supercapacitor electrodes
17-Poster-21	Y N Sudhakar M Selvakumar	<b>ABS-428-ICYRAM</b> Facile eco-friendly synthesis of rGO-CuO nanocomposites for supercapacitor
17-Poster-33	Dijo Damien, Athira Anil, Dipanwita Chatterjee Manikoth. M. Shaijumon	<b>ABS-635-ICYRAM</b> Direct deposition of MoSe <sub>2</sub> nanocrystals onto conducting substrates: Towards ultra-efficient electrocatalysts for hydrogen evolution

### Thermoelectrics

18-Poster-02	S Roychowdhury U. S. Shenoy U. V. Waghmare K. Biswas	<b>ABS-353-ICYRAM</b> Tailoring of electronic structure and thermoelectric properties of topological crystalline insulator by chemical doping
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### Composites and light metals and alloys

19-Poster-13	Shreyasi Chattopadhyay Sandipan Maiti, Indranee Das Sourindra Mahanty Goutam De	<b>ABS-349-ICYRAM</b> Ordered Mesoporous electrospun TiO <sub>2</sub> -rGO nanofibers: Efficient Anode Material for Lithium Ion Batteries
19-Poster-28	Satyajit Das Karthikeyan Kandan Vikram Deshpande	<b>ABS-Email-ICYRAM</b> Compression & Indentation of 3D orthogonal carbon fiber epoxy composite: Experiment and Modelling

### Computational materials science

20-Poster-04	Prakhar Gupta Ajeet Kumar	<b>ABS-108-ICYRAM</b> Unusual buckling in nanorods and nanotubes explained using Helical Cauchy Born rule
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### **Simulation and Modeling**

21-Poster-09	Narayan Sahoo Ajit K Panda Trinath Sahu	<b>ABS-455-ICYRAM</b> External Electric Field induced Multisubband Electron Mobility in Asymmetrically Barrier Delta Doped Double Quantum Well Structure
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### **Scanning Probe microscopy and electron microscopy**

22-Poster -01	Prithwidip Saha Shibin Chacko Anijamol T Philip Ramesh Ramapanicker Thiruvancheril G Gopakumar,	<b>ABS-64-ICYRAM</b> Self-Assembly of Ferrocene Derivatives on Crystalline Surface: a Scanning Probe Microscopy Investigation
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### **Spectroscopy**

23-Poster-09	Debjit Roy Prasun K. Mandal	<b>ABS-705-ICYRAM</b> Photoluminescence blinking dynamics of non-blueing, non-bleaching single particles: CdSe based core/gradient alloy shell/shell quantum dots
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### **Nanomedicine-Tissue Engineering and Cell material interaction**

25-Poster -11	Shreya Mehrotra Nandana Bhardwaj Samit K Nandi Biman B Mandal	<b>ABS-441-ICYRAM</b> Biomimetic Mulberry and Non-mulberry Silk Sheets for Cardiac Patch Applications
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