

July 9th 2015

Oral Session -15

Advanced functional nanomaterials

SESSION TIMINGS: 10.00AM – 12.30PM

| | | |
|---------------|-----------------------|--|
| RS-275 | Meenakshi Viswanathan | Fabrication and characterization of Polyvinylidene fluoride microfilms for microfluidic applications |
| RS-364 | Sheshanath Bhosale | Supramolecular chemistry: Functional Structures on the nanoscales |
| RS-142 | Yugeswaran N | Carbon Encapsulated SiO ₂ for radar Evation |
| RS-108 | Ramani Mayappan | Improvement in intermetallic thickness and joint strength in carbon nanotube composite Sn-3.5Ag Lead-free Solder |
| RS-630 | A Zamara | A study on the structural mechanical dielectric and photoconductivity properties of L-Aspartic acid single crystals |
| RS-562 | Lijesh | Tribiological Performance evaluation of nano lubricant |
| RS-700 | Vishal S. Malkadia | The Freeze-Thaw Technique for Exfoliation of Graphite: A Novel Approach for Bulk Production of Scroll-free Graphene Oxide Sheets |
| RS-105 | Sumit Pokhriyal | Doping dependent high-frequency dielectric properties of high-kHf _{1-x} Ti _x O ₂ nanoparticles |
| RS-702 | S.Kanagaraj | Design and development of polymeric based passive polycentric knee joint and its trial on trans-femoral amputees |
| RS-237 | Prasad Mattipally | Preparation of Bulk Graphene Nanoplatelets by Spark Plasma Sintering - Electrical and Thermal Properties |
| RS-697 | R.S.Jayasree | NIR emitting gold nanoconstruct for brain imaging |

Oral Session -16

Nanotechnology in energy: Harvesting & Storage

SESSION TIMINGS: 10.00AM – 12.30PM

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|---------------|------------------------|---|
| RS-514 | Rashmi Shende | Applications of reduced Graphene oxide nanofluid as a working fluid for direct absorption solar collector |
| RS-515 | Asalatha A S | Synthesis of Graphitic carbon nitride composites and their potential applications as high capacity hydrogen storage Materials |
| RS-534 | Shibsankar Dutta | High- performance supercapacitor based on few layered Vanadyl Phosphate nano sheets - Graphene hybrid |
| RS-545 | Pradeepa P | Electrical and thermal properteis of PVAC /PMMA based blend composite polymer electrolytes for lithium |
| RS-284 | Balaji G | Preparation and characterization of refractory ZnO buffer layers for solar cell applications |
| RS-412 | Sai Kiran Aditha | Synthesis and photoelectrochemical characterization of CZTS via low cost reflux method |
| RS-110 | Lakshmana Reddy N | Highly Efficient hydrogen production using Bi ₂ O ₃ /TiO ₂ nanotubes photocatalysts under UV-LED Light irradiation |
| RS-116 | Shalini Divya | Synthesis of nickel cobaltite nanorods for their application as Supercapacitor |
| RS-541 | Kalyana Lakshmi Yanapu | Enhanced Magnetoresistance in Bismuth doped Lanthanum Silver Manganites |

Oral Session -17
Thin Films and Surface Engineering
SESSION TIMINGS: 10.00AM – 12.30PM

| | | |
|---------------|----------------------|---|
| RS-227 | Desai H N | Optical and dispersion analysis of Zinc Selenide thin film |
| RS-197 | M.Sangeetha | Corrosion inhibition by nano film of (3z,7z,10z) -1-Oxa-6-Azacyclododeca-3,7,10-Trience formed on Mild steel in seawater |
| RS-220 | GuruSampath Kumar A | Effect of substrate temperature on structural and optical properties of reactive DC magnetron sputtered CdZnO thin films |
| RS-184 | P.Pradheeba | Development and validation of TiO ₂ :Ag thin Films to Eradicate Antibiotic Resistant Biofilms |
| RS-466 | Benjamin Hudson Baby | Fabrication and phase characterization study of SnS Thin Films under controlled sulphur deposition temperature |
| RS-183 | B. Lakshmi Shree | Influence of CdTe Film Thickness on the properties of Va |
| RS-450 | Chandrashekara H D | Optical properties of (TiO ₂) _{1-x} (Al ₂ O ₃) _x pseudo binary oxides thin films prepared by spray pyrolysis technique |
| RS-613 | Rakesh K. Sonker | Low temperature study of nanostructured Fe ₂ O ₃ thin films as NO ₂ sensor |
| RS-685 | Rohit Vinod | On the development of iron nitride nanoparticles and thin film by nitridation process |

Oral Session -18
Organic and Inorganic Nanocomposites
SESSION TIMINGS: 10.00AM – 12.30PM

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|---------------|-----------------------|---|
| RS-224 | Jaisankar V | Cellulose/polyaniline nanocompoiste: application towards in vitro one pot synthesis, characterization of polyaniline and measurements of antibacterial activity |
| RS-473 | Gaganpreet | Interfacial layer effect on specific heat of colloidal suspensions |
| RS-409 | Ramkumar G | Synthesis and characterization of polymer nanocomposite membranes [Sulfonated poly(ether-ether-ketone)/Graphene oxide] Towards hydrogen storage |
| RS-500 | Tusharkumar Vaghasiya | The study of change in optical properties of highly AgNO ₃ doped PVA hydrosol |
| RS-660 | V Sindhu | Characterization of synthesised rhodamine-B dye coated on a polyimide chain |
| RS-124 | G.Seshanandan | Mechanical properties of nano titanium oxide particles-Hybrid jute-Glass FRP Composites |
| RS-139 | Bunekar Naveen | Synthesis and Characterization of Poly (Ethylene terephthate)/bio inorganic LiAl LDH nanocomposites |
| RS-178 | Harikrishnan V | Synthesis, structural and magnetic properties of BaSrFeOCoFeO composite powders |
| RS-358 | Khadheer pasha S K | Influence of CeO ₂ on the structural Morphological, Mechnaical and Dielectrica Properties of PVA/Ppy Blend Nanocomposites |
| RS-474 | Mamta Kharkwal | In-situ-synthesis of CuInS ₂ /Cu(InXGa _{1-x})S ₂ -poly(3-hexylthiophene) organic-inorganic hybrid nanocomposites |
| RS-540 | Sangeetha | Experimental analysis of binary polymer blends of nanochitosan |
| RS-643 | Nikesh Samarth | Thermal stabilities of polystyrene/Nano SiO ₂ hybrid Composites via microwave-assisted in situ polymerization |
| RS-641 | Kalpana Kumari | Nano particles for enhancing mechanical properties of fly ash concrete |
| RS-362 | Ezhil Vizhi | Bioinspired surface on Modified 9Cr-1Mo ferritic steel using fluoro containing silica nano particles |

Oral Session -19
Sensors and Nanoelectronics
SESSION TIMINGS: 10.00AM – 12.30PM

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|---------------|------------------|--|
| RS-215 | Siva Kumar | Electrochemical enzymatic glucose biosensor based on chitosan/silver nanowire (AgNW) nanocomposite modified glassy carbon electrodes. |
| RS-258 | Kaleeswaran P | Development of naked eye sensor for melamine :aggregation induced color change by sodium-D-gluconate stabilized AgNPs |
| RS-272 | Rini Grace | Fabrication of electrochemical transducer based on Gold nanoparticles modified carbon electrode for the detection of organophosphorus compound |
| RS-280 | Selvakumar D | NO ₂ gas sensing properties of hydrothermally prepared Platinum doped Indium(111)Oxide nanoparticles |
| RS-297 | Naveen Kumar S K | TiO ₂ _PANI based Anti-Typhi immobilized Nanosensor for salmonella typhi Detection |
| RS-339 | Yeswanth R | Sensing of Acetone Using MOS Based chemical sensors: A Review |
| RS-342 | Manikandan N | Fabrication of piezoelectric polyvinylidene fluoride (PVDF) polymer based tactile sensor using electrospinning method |
| RS-354 | Harsha Devnani | Nanocomposites Modified electrochemical sensor for sensitive and selective determination of Noradrenaline |
| RS-501 | Anil Kumar Pal | SERS detection of D-glucose on ultra thin Ag cu films through tuning surface plasmon resonance |
| RS-484 | Bashaiah Sindam | High Q value of Ba(Zn _{1/3} Ta _{2/3})O ₃ resonator in a closed cavity for sensor applications |

Oral Session -20
Semiconducting Materials
SESSION TIMINGS: 10.00AM – 12.30PM

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| RS-485 | Chitra S | Electrical properties of pure and Zn ²⁺ , Cd ²⁺ , Ni ²⁺ doped TiO ₂ quantum dots |
| RS-285 | Rahul Kumar | Synthesis and characterization of a new photoluminescent material tris--lanthanum |
| RS-574 | Santhosh T C M | Characterization of vacuum deposited cadmium selenide thin films |
| RS-624 | Neeru Chaudhary | Pressure tolerant nanocrystalline Se _{85-x} Te ₁₅ Gax(x=0,2,6,10, 15) semiconductor |
| RS-627 | S Thirumurugan | Metal ion implantation in semiconductor lattice due to photoirradiation of Cis-[Co(III) (en) ₂ /ck ₂ /nano-Zno system |
| RS-148 | Ramya C | Comparative analysis of electron phonon coupling in metal oxide semiconductors using DFT |
| RS-530 | Tangsali R B | Preparation characterization electrical and magnetic properties of Mn doped dilute magnetic semiconductors |
| RS-201 | Shreyasi Pal | Exploration of novel glider and tetrapod shaped ZnO nanofoms as gas sensor and photo catalyst for environmental applications |
| RS-712 | Babu.R | Performance analysis of an efficient MAC unit using CNTFET technology |
| RS-114 | Sadhana Katlakunta | Effect of NiO particles on the magnetic and dielectric properties of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ -polyaniline nanocomposites |
| RS-326 | Anita Rani | DFT Study of Diluted Magnetic Semiconductor Cd _{1-x} Cr _x S at x=3.25% |

Oral Session-21
Applications of Nanotechnology
SESSION TIMINGS: 02.15P.M- 06.45 P.M

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|---------------|-----------------------------|--|
| RS-493 | Prathibha C | Nanocrystalline γ -alumina: A potential Defluoridation Sorbent for Drinking water applications |
| RS-321 | Vinod Vellora Thekkae Padil | Immobilization of Zero-Valent Iron nanoparticles onto Electrospun bio-membranes: Synthesis, Characterization and its use for water purification |
| RS-441 | Sridhar Chinthakindi | Poly(vinylpyridine) grafted magnetic graphene ion-exchanger nanocomposite for removal of anionic dyes from aqueous samples |
| RS-596 | Deepak Kukkar | Highly efficient Yttrium based metal organic framework for removal of pollutant dyes |
| RS-619 | Rahul Biswas | Synthesis of optically active TiO ₂ /polymer blend nanocomposites for prevention of food degradation |
| RS-107 | Sekar K S | Comparison of electrospun tassar Silk Fibroin-Hydroxy apatite composite scaffold prepared by soaking and in-situ methods |
| RS-650 | Suresh D Kulkarni | Adsorptive CuO/CuAl ₂ O ₄ nanoparticles for the separation of aqueous methyl orange |
| RS-190 | S.J. Vignasha | Studies on dip coated alum films for antibacterial applications |
| RS-664 | R Arun Prasath | Low temperature rapid synthesis of direct anatase phase mesoporous TiO ₂ nano-aggregates & its application in plasmonic dye sensitized solar cell |
| RS-106 | Karthic Kumar B | Effect of thickness and testing parameters on tensile strength of electrospun nanofibrous mat |
| RS-133 | Kanaka Durga M | MgCuZnFe ₂ O ₄ +PbZrTiO ₃ Nanocomposites for EMI Application |
| RS-705 | Pandipriya J | Magnetite Stabilized by Calix[n]arene-Role in Removal of Organic Arsenic |
| RS-607 | S M Muzakkir | Influence of surfactant on usage of functionalized multi walled carbon nano tubes (MWCNT) as Lubricant additive |
| RS-214 | Srimanta Ray | Fabrication and characterization an immobilized titanium dioxide nanofiber photocatalyst |
| RS-510 | Santhosh Jefferson | Polysulfone, graphene oxide and nano silver composite: synthesis , characterization and application in water purification |

Oral Session -22
Nanotechnology in Energy: Harvesting & storage
SESSION TIMINGS: 02.15P.M- 06.45 P.M

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|---------------|----------------------|---|
| RS-235 | Arundhati Sengupta | Electrical conductivity in Zr _{0.8} Cr _{0.2} O ₂ nanocrystallites showing a high curie temperature |
| RS-293 | Sivakami R | Influence of pyrolysis temperature on the Opto electronic properties of copper Zinc tin Sulphide Thin Films |
| RS-310 | Palanisamy Vickraman | Piezoelectric polymer base ferroceramic impregnated polyethylenemethacrylate lithiumimide microcomposites for LI-ION batteries |
| RS-311 | Anvita Kamble | Effect of solvent reaction time on morphology of CZTS nanoparticles and its application in dye sensitized solar cells |
| RS-324 | Siva Samkar Nemla | Cu ₂ ZnSnS ₄ /CNT composites as a platinum free counter electrodes for dye sensitized solar cells with improved efficiency |
| RS-477 | Biswajit Das | Synthesis of multijunction Bi ₂ Se ₃ /CdSe/tiO ₂ nanostructures for efficient optoelectrical application |
| RS-216 | Eanest Jebasingh B | Preparation of organic based ternary eutectic fatty acid mixture as phase change material (PCM), optimizing their thermal properties by enriched solar treated exfoliated graphite for energy storage |
| RS-330 | Chaitanya bathina | Fabrication of cost effective Pt and FTO free counter electrode for ZnO based Dye sensitized solar cell using CZTS nanoparticles |
| RS-418 | Manoj Kumar Gupta | Two-dimensional piezoelectric nanosheets based nanogenerators |
| RS-676 | Rajendra Rathi | Structural, Electric and magnetic properties of Titanium doped Ni-Cu-Zn Ferrite |
| RS-590 | Selva Suganya | Photo voltaic solar cell application for CZTS quaternary Nanoparticles by simple solid state method |
| RS-681 | R.Radha | Sunlight driven photocatalytic activity of Cr modified bismuth tungstate nanoparticles |

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| RS-690 | Kesavan Ganesh | Development of Transparent Conducting Oxide (TCO) Multilayer Thin Film for Solar Cells |
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Oral Session -23

Nanomedicine and Bionanomaterials

SESSION TIMINGS: 02.15P.M- 06.45 P.M

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| RS-126 | Agnes Mary S | Crude Aloe vera incorporated herbal nanofibrous wound dressing for moist wound healing |
| RS-314 | Kateryna Loza | Electrophoretic deposition of calcium phosphate nanoparticles on nanostructured silicon surface |
| RS-315 | Swaroop K | Gamma Irradiation synthesis of Ag/PVA hydrogel and its antibacterials activity |
| RS-413 | Samrat K | Evaluation of improved antifungal activity of Fluconazole-silver nanoconjugate against pathogenic fungi |
| RS-479 | Sandeep Patnaik | Wet ball milled piroxicam-Soluplux nanoformulations for enhanced Bioavailability |
| RS-489 | Amardeep Bharti | Structural Characterization of Silver-Hydroxyapatite nanocomposite:A Bone repair Biomaterial |
| RS-516 | Preetam Bala | Control on erratic release of ketoprofen from |
| RS-525 | Sivaramakrishnan C | Surface functionalization of AG nanoparticles and conjugation with temazolomides for targeted drug release in glioblastoma cells |
| RS-546 | Narendhar C | Iron loaded chitosan nanospheres for hydrophobic drug delivery system |
| RS-611 | Sreekanth Dondapati | Synthesis and characterization of Mg/TiO ₂ nanocomposites by powder metallurgy technique for biomedical applications |
| RS-587 | J Jayaseelan | Study on mechanical properties of hair based natural fibre nano composite |
| RS-589 | Kairon Mubina | A Novel biosynthesis of Cd _x Zn _{1-x} S nano composites: structural and optical properties- Antibacterial Applications |
| RS-238 | Anita Lett J | Ontogenesis of porous hydroxyapatite for biological implants |
| RS-355 | Bharath Kumar | Microstructural, Optical, Antibacterial & Hemocompatibility Properties of ZnO Coated Glass Substrate BY RF Magnetron Sputtering |
| RS-706 | Reenu Mary Kuriakose | Shape and Surface Area Dependant Anti-bacterial Activity of ZnO Nanoparticles |
| RS-129 | Nagalakshmi S | Fabrication of novel niosomal vesicular carriers as dermal drug delivery in the effective treatment of osteoarthritis |

Oral Session -24

Organic, Inorganic Nanocomposites & Polymeric colloids

SESSION TIMINGS: 02.15P.M- 06.45 P.M

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| RS-537 | Chandrashekhara Shetty | Optical limiting studies on chalcone doped PMMA film |
| RS-561 | Sivanagi Reddy Emani | Microwave assisted synthesis of lead free ferroelectric nanocrystalline CaBi ₄ Ti ₄ O ₁₅ ceramics |
| RS-586 | Priyanka Dhirde | Enhancement of barrier and mechanical properties of coating via aid of exfoliated nanoclay platelets |
| RS-688 | Muhd Khusairy Bin Bakri | An Experimental and Simulation studies on Sound Absorption Coefficients of Banana fibers and their reinforced Composites |
| RS-137 | Selva Kumar K | Perchloric acid doped fluoroinated polymer membranes for fuel cell applications |
| RS-528 | R. G. Joshi | Effect of temperature and shear rate on two step yielding behaviour of dense microgel glasses |
| RS-286 | Ashish Singh Rajput | Exploring the potential of monocarboxylic acid as heterosynthon formers for simvastatin cocrystals |
| RS-287 | Jaywant Nivrutti Pawar | Development of Efavirenz cocrystals from stoichiometric solutions by spray drying technology |
| RS-443 | Sweetlin | Iron(III)-Salen and Cobalt(III)-Salen-catalyzed H ₂ O ₂ oxidation of dibenzyl sulfide in reverse micelles |
| RS-386 | Ramesh Boda | FTIR and optical properties of Europium doped lithium Zinc Bismuth Borate Glasses |

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| RS-521 | Swapana Dhanwada | Spectroscopic and optical properties of VO_2^{2+} ions doped TeO_2 glass system |
| RS-351 | Manju Middha | Dielectric and optical investigations of induced memory in chiral doped nematic liquid crystals as a function of frustration ratios |
| RS-629 | D Shanthana Lakshmi | Preparation and characterization of hollow metal oxide nano tube loaded flat sheet polymer membranes |
| RS-693 | E. Srinivasa Rao | Effect of particle size on high purity cordierite ceramics for kiln furniture application |

Oral Session -25

Sensors and Nanoelectronics

SESSION TIMINGS: 02.15P.M- 06.45 P.M

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|---------------|--------------------|---|
| RS-298 | Naveen Kumar S K | Humidity sensing behavior of silver doped and undoped ZnO nanostructure |
| RS-186 | K J. Kumaresh | Design of Thin film Capacitive sensor for Flow Measurement |
| RS-283 | Subhashini C | Synthesis of Mesoporous silica monoliths - A novel approach towards fabrication of solid state optical sensors for environmental applications |
| RS-544 | Suganthi | Facile synthesis of chitosan capped ZnS nanoparticles for cholesterol biosensors |
| RS-145 | Pramod Kumar Gupta | Electrodeposited porous ZnO films exhibiting enhanced performance In biosensors |
| RS-231 | Deepa K | Synthesis, characterization and application Zinc oxide nano-particle coated modified clad optical fibre for humidity sensor |
| RS-606 | Reshmi Maity | Lumped electromechanical modeling of capacitive micromachined ultrasonic transducers |
| RS-101 | Ramanathan G | Indium Oxide thin films grown by acrylamide sol gel dip coating and their H_2S gas detection Characteristics |
| RS-494 | Gaurav Sapra | Simulation and Analysis of Strain Sensitivity of CNT based Strain Sensors |
| RS-704 | E. Praveena | Gas and Touch Sensors Based on Wet Chemically Synthesized Graphene |
| RS-449 | Amit Saraiya | Rhodium oxide-Graphene-CNT based room temperature sensor |
| RS-153 | Susanta Kumar Das | Growth of ZnO nano rods for ultrafast laser diagnostic applications |

Oral Session -26

Safety, Risk assessment & Toxicology

SESSION TIMINGS: 02.15P.M- 06.45 P.M

| | | |
|---------------|-------------------|--|
| RS-635 | V Deepa Parvathi | Nanotoxicology testing: potential of invitro tools in toxicity assessment of nanomaterials |
| RS-455 | Praveen Kumar J | Montmorillonite supported with Ag_2O nanoparticles for decontamination of sulfur mustard |
| RS-518 | Varoon Singh | Dispersive solid phase extraction of chemical warfare agents from environmental water by using magnetic hydrophilic lipophilic |
| RS-163 | Senthilkumar R | Elimination of contaminant gases from vehicle exhaust using nanoparticles |
| RS-177 | Porchilamban S | A study of material and mechanical characterization on dissimilar weldments of AISI 316L and AISI 430 |
| RS-257 | Sudha U | Nanophase modification of fly ash concrete for sulphate attack resistance |
| RS-553 | Dipen Kumar Rajak | Experimental analysis to improve energy absorption properties of rectangular metal structure subjected to axial loading |
| RS-320 | Ratandeep pandey | The Tribological and deformation behaviors of Zr sand reinforced LM 13 metal matrix composites at high velocity impact |
| RS-323 | Abhishek Mittal | The Effect of cell wall microstructure on mechanical properties of closed cell LM 13 alloy base composite foam |
| RS-636 | P Jegathambal | Effect of water quality parameters due to interaction between nanoparticles in aquatic environment |
| RS-325 | Suresh kumar | Effect of Cell size and structure on the tribological properties of closed cell aluminium composite foams |

