



International Conference on Inventive Research in Material
Science and Technology (ICIRMCT 2018)

23-24 March, 2018

Program Schedule

Conference Day-1 | March-23

Venue: Hotel Arcadia, Coimbatore, Tamil Nadu, India.

Registration, Keynote Address	09:00am - 09:30am
Research Session-I	09.30am - 11.30am
Tea Break	11:30am - 12:00pm
Research Session-II	12.00pm – 01.00pm
Lunch	01.00pm - 02.00 pm
Research Sessions-III	02:00 pm - 04:30pm
Tea Break	04.30 pm - 04.40 pm
Discussions	04.40 pm - 05.00 pm



Conference Day-1 | March-23

Research Session-I | 09.30am - 11.30am | Parallel Session - I

S.No	Title/Author Name	Time Slot
1	A View on Thermodynamics of Concentrated Electrolytes: Modification necessity for Electrostatic Contribution of Osmotic Coefficient Jyoti Sahu, Vinay A. Juvekar	09.30am – 09.45am
2	Sodium alginate/gelatin with Silica nanoparticles a Novel Hydrogel for 3D Printing Raghav Soni,Uday Kiran Roopavath, Urbashi Mahanta, A.S.Deshpande, S.N.Rath	09.45am - 10.00am
3	Effect of Metal Oxide Nanoparticles on Godavari River Water Treatment Ravi Kumar Goud, Ajay Kumar V, T Rakesh Reddy, B Vinod, S Shravani	10.00am – 10.15am
4	Optimization Of Adhesive Joining Process Parameters On Single Lap Shear Strength Properties Of Hybrid Metal Polymer Composite Joints Shirish Kerur, Dr. Shivakumar S	10.15am – 10.30am
5	Similitude Of Membrane Helical Coil With Membrane Serpentine Tube For Characteristics Of High-Pressure Syngas: A Review Sagar.S.Gaddamwar, Anand N.Pawar, Pramod A. Naik	10.30am – 10.45am
6	EFFECT OF INTERPHASE PERMITTIVITY ON THE ELECTRIC FIELD DISTRIBUTION OF EPOXY NANOCOMPOSITES Lavanya Pradeep, Avinash Nelson, Preetha P	10.45am – 11.10am
7	Development of Electronic tattoo for pulse rate monitoring: Materials perspective Shilpa Vikas Shinde, S. S. Sonavane	11.10am – 11.15am
8	Numerical Modeling and Performance Analysis of Zinc Oxide (ZnO) Thin-Film based Gas Sensor Deepak Punetha, Rashmi Ranjan, Saurabh Kumar Pandey	11.15am – 11.30am



Conference Day-1 | March-23

Research Session-I | 09.30am - 11.30am | Parallel Session - II

S.No	Title/Author Name	Time Slot
1	An Approach towards optimisation of 3 to 8 Decoder using 5 Input Majority Gate with Coplanar Crossing in Quantum Dot Cellular Automata R.Jayalakshmi, R.Amutha	09.30am – 09.45am
2	Influence of Gating Design on Microstructure and Fluidity of Thin Sections AA320.0 Cast Hypo-Eutectic Al-Si Alloy Mohamed Ramadan	09.45am - 10.00am
3	Numerical Investigation of Thermal Hydraulic Performance of Channel with Protrusions by Turbulent Cross Flow Jet M.K.Sahu, K.M.Pandey, S.Chatterjee	10.00am – 10.15am
4	Frequency Upconversion in Er ³⁺ doped Tungsten Tellurite Glass containing Ag Nanoparticles S.K. Mahajan, J. Parashar	10.15am – 10.30am
5	Comparative Study on Strength Properties of Cement Mortar by Partial Replacement of Cement with Ceramic Powder and Silica Fume Ch.Himabindu, Ch.Geethasri, N.Hari	10.30am – 10.45am
6	Numerical Investigation of Optimized CZTSSe Based Solar Cell in Wx-Amps Environment Soumya Priyadarshini Mohanty, Srinibasa Padhy, Joy Chowdhury, Udai P. Singh	10.45am – 11.10am
7	Energy Conservation in Two Wheeler Head Tube Welding Fixture by Modeling Kamalanathan S1,Guruprasad B, Elango A	11.10am – 11.15am
8	Design and Analysis of Serpentine Based MEMS Accelerometer Sudha R Karbari, M Uttara Kumari , Roshan Pasha C, Vikas K Gowda	11.15am – 11.30am



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Research Session-II | 12.00pm – 01.00pm | Parallel Session - I

S.No	Title/Author Name	Time Slot
1	ZrO ₂ - Al ₂ O ₃ nanocomposite: synthesis, characterization and influence of electron beam irradiation on the structural and PL properties S. Ponkumar, K. Janaki, D. PrakashBabu, K. Munirathnam, M. Madesh kumar	12.00pm – 12.15pm
2	Vibration Characteristics of Teak Wood Filled Steel Tubes Bharatesh Adappa Danawade, ,Ravindra Rachappa Malagi	12.15pm – 12.30pm
3	Review of - SiC Wide-Bandgap Heterostructure Properties as an Alternate Semiconductor Material Rajput Priti J, Udayan S. Patankar, Ants Koel, V N Nitnaware	12.30pm – 12.45pm
4	Optical Band Gap Determination of Calcium Doped Lanthanum Manganite Nano Particle Tailored with Polypyrrole Smitha M G, Murugendrappa M V	12.45 pm – 01.00pm



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Research Session-II | 12.00pm – 01.00pm | Parallel Session - II

S.No	Title/Author Name	Time Slot
1	Photocatalytic Degradation of Textile Dye using TiO ₂ - Activated Carbon Nanocomposite Gourab Ghosh, Sankhadeep Basu, Sudeshna Saha	12.00pm – 12.15pm
2	Influence of Volume Ratio of Liquid to Solid and Low Pouring Temperature on Interface Structure of Cast Babbitt-Steel Bimetal Composite Naglaa Fathy, Mohamed Ramadan	12.15pm – 12.30pm
3	Pressure Driven Topological Semi Metallic phase in SrTe Lavanya Kunduru, S. C. Rakesh Roshan, N. Yedukondalua, M. Sainath	12.30pm – 12.45pm
4	Fixation of Operating Point and Measurement of Turn on Characteristics of IGBT F4-75R06W1E3 Haseena .A, Mr.subhash joshi T.G, Saly George	12.45 pm – 01.00pm



Conference Day-1 | March-23

Research Session-III | 02:00 pm - 04:00pm | Parallel Session-I

S.No	Title/Author Name	Time Slot
1	CONSTRUCTION OF CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM USING GLEEBLE FOR COARSE GRAINED HEAT AFFECTED ZONE OF SA106 GRADE B STEEL G Vimalan, V Muthupandi, G Ravichandran	02.00pm – 02.15pm
2	Synthesis of Porous Graphene Powder Through Improved Hummers' Method Siddhant Gupta, Shrilakshmi Bonageri, Siddarth Krishnaraja Achar, Atul Menon, Basavaraja R. J	02.15pm – 02.30pm
3	Numerical Investigation of Combustion Phenomena in Pulse Detonation Engine with different Fuels Noor Alam, K. K. Sharma, K. M. Pandey	02.30pm – 02.45pm
4	Observation of Extraordinary Transmission in Deep UV Region from Aluminum Film Coated Two Dimensional Photonic Crystals A Venkatesh, R M Piragash Kumar, V H S Moorthy	02.45pm – 03.00pm
5	Electro-Thermal Analysis of Contact Resistance Nitin Pandey, Ishant Jain, Sudhakar Reddy	03.00pm – 03.15pm
6	Carbon-Electroluminescence: An Organic Approach To Lighting Sonali Kumari, Tarun chaudhary, Vivek Chandran, M. Lokeshwari, K. Shastry	03.15pm – 03.30pm
7	Synthesis and Characterization of Al & SiCp Nano Particles by Non-contact Ultrasonic Assisted Method Pradyut Kumar Swain, Ratnakar Das, Bikash Naik, Payodhar Padhi	03.30pm – 03.45pm
8	Exploration of Various Cloud Segments Transference and Convenience for Cloud Computing SRIHARI BODAPATI, AAKILA	03.45pm – 04.00pm
9	Characterization and Processing of Heat Treated Aluminium Matrix Composite Yogesh Doifode, S G Kulkarni	04.00pm - 04.15pm



Conference Day-1 | March-23

Research Session-III | 02:00 pm - 04:00pm | Parallel Session-II

S.No	Title/Author Name	Time Slot
1	Electrical Studies of Ge ₄ Sb ₁ Te ₅ devices for Memory Applications B.G.Sangeetha, Shylashree N	02.00pm – 02.15pm
2	Preparation and Characterization of Sb ₂ Se ₃ Devices for Memory Applications Shylashree N, Uma B.V,Dhanush S, Sagar Abachi, Nisarga A, Aashith K, Sangeetha B.G	02.15pm – 02.30pm
3	Electrical switching Studies on Si ₁₅ Te _{85-x} Cu _x bulk ($1 \leq x \leq 5$) glasses Diptoshi Roy, Chinmayi H.S Nadig, Aravindh Krishnan, Akshath Karanam, Abhilash R, Jagannatha KB , Chandasree Das	02.30pm – 02.45pm
4	Effect of Sn addition on Glassy Si-Te bulk sample Jagannatha KB, Dipthosi Roy, G.Sreevidya Varma, S. Asokan, Chandasree Das	02.45pm – 03.00pm
5	Structural and Optical Modification in 4H-SiC Following 30 keV Silver ion irradiation Priya Darshni Kaushik, Anver Aziz, Azher M. Siddiqui , G. B. V. S. Lakshmi, Mikael Syväjärvi, Rositsa Yakimova, G. Reza Yazdi	03.00pm – 03.15pm
6	Vibrational Response and Mechanical Properties characterization of aluminium Alloy 6061/Sic Composite A.P.Kumbhar, R.T.Vyavahare, S. G. Kulkarni	03.15pm – 03.30pm
7	Effect of Co Doping on Structural and Mechanical Properties of CeO ₂ Saurabh Tiwari, Nivedha Balasubramanian, Sajal Biring, Somadity Sen	03.30pm – 03.45pm
8	Influence of vacuum annealing on the properties of Cu ₂ SnS ₃ thin films using low cost ultrasonic spray pyrolysis Sabina Rahaman, M. Anantha Sunil, Habibuddin Shaik, Kaustab Ghosh	03.45pm – 04.00pm