

International Conference on
Recent Trends in Materials Science and Devices (2023)
(ICRTMD 2023)
 22-23 July, 2023

Jointly Organized by
Research Plateau Publishers
 (An Academic Publisher of Scientific & Technical Journals, Jhajjar, Haryana, India)
 &
G.A.V. Degree College, Patauda (Jhajjar)
 (Affiliated with M.D. University, Rohtak, Haryana, India)

Program Schedule (Final)

Date	IST-Time	Event
22.07.2023	08:30 AM to 09:05 AM	Inaugural Function
22.07.2023	09:05 AM	Keynote Address – I Dr. Thomas J. Webster Human Nanomedicine: Real Clinical Trial Results with Nanomaterials
22.07.2023	09:40 AM	Keynote Address – II Dr. Masahiro Yamashita Molecular Spin Qubits for Quantum Computer and High-Density Memry Devices Based on Molecular Magnets
22.07.2023	10:15 AM	Keynote Address – III Dr. Sib Krishna Ghoshal Engineered Fluorescent Ag-Cu Nanohybrids for Upcoming Biomedicine
22.07.2023	10:50 AM	Keynote Address – IV Dr. Sudipta Halder Effectiveness of high-energy planetary ball milling on synthesizing alternative cost-effective 2D carbon nanofillers from natural graphite
22.07.2023	11:25 AM	Keynote Address – V Dr. Pushkar Singh Chiroptical Spectroscopy: Instrumentation and Applications
22.07.2023	12:00 Noon to 06:00 PM	Technical Session: ICRTMD 01 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 02 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 03 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 04 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 05 (Students)
		Technical Session: ICRTMD 06 (Students)
		Technical Session: ICRTMD 07 (Students)

Date	Time	Event
23.07.2023	08:30 AM to 09:05 AM	Keynote Address – VI Dr. Ram Gupta Layered Semiconducting Materials for Energy Applications
23.07.2023	9:05 AM	Keynote Address – VII Dr. Ajeet Kaushik Nano-biotechnology for intelligent health wellness
23.07.2023	9:40 AM	Keynote Address – VIII Dr. Susai Rajendran Inhibition of corrosion of mild steel in simulated concrete pore solution prepared in sea water by an aqueous extract of apple juice”- A Case Study
23.07.2023	10:15 AM	Keynote Address – IX Dr. Mahesh Kumar AlGaIn/GaN HEMT based Heavy Metal Ion Sensors for Smart Water Quality Monitoring
23.07.2023	10:50 AM	Keynote Address – X Dr. Surender Duhan Materials Science and Materials Engineering: An Introduction
23.07.2023	11:25 AM	Keynote Address – XI Dr. Piyush Dua Memristors and Spintronics for Future Computing Era
23.07.2023	12:00 Noon to 06:00 PM	Technical Session: ICRTMD 08 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 09 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 10 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 11 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 12 (Invited Speakers/ Faculty/ Scientist)
		Technical Session: ICRTMD 13 (Students)
		Technical Session: ICRTMD 14 (Students)
23.07.2023	05:30 PM	Valedictory Function

Note:

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given.
4. Mode of presentation should be power point presentation (ppt or pptx).
5. Duration of presentation: 10 minutes (presentation) + 2 minutes (Queries).
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges.

Technical Session: ICRTMD 01 (Invited Speakers/ Faculty/ Scientist)

Date: 22.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Dr. G.Sekaran	MS 021	A novel Nano porous Cermet for the treatment of wastewater
12:30 pm	Dr. Bhupender Singh	MS 022	
12:45 pm	Anil Kumar, Sindhu Singh, Anoop Kumar, Prashant Kumar Singh	MS 343	Introduction to Liquid Crystals and its Applications
01:00 pm	Lakshman K. Ventrapragada, Sai Prasad Nayak, Sai Sathish Ramamurthy, J.K. Kiran Kumar, Apparao M. Rao	MS 024	Green synthesis of a novel porous gold-curcumin nanocomposite for super-efficient alcohol oxidation
01:15 pm	Dr. Rishipal	MS 025	
01:30 pm	Dr. Manjeet Singh	MS 026	Hot carrier effects on threshold and amplification characteristics of Brillouin scattered Stokes mode in semiconductor magneto-plasmas
01:45 pm	Dr. Indrajit Sinha	MS 027	Development of magnetically recyclable visible light photocatalysts for H ₂ O ₂ production
02:00 pm	Dr. Vipashha Arora	MS 028	STUDY OF LIFE CYCLE OF STARS
02:15 pm	Dr. Gagan Dixit	MS 029	Modification of Optical Properties of Ferrites : A comparative study of Rare Earth doping versus Swift Heavy Ion Irradiation
02:30 pm	Dr. Mukesh C. Dimri	MS 030	Ferrite and garnetnanomaterials for magnetic and spintronics applications
02:45 pm	Manvendra Singh Khatri, Shivani Agarwal	MS 033	Synthesis and characterization of electroplated CoFe-Cu multilayer nanowires embedded into the pores of alumina template
3:00 pm	BREAK		
03:30 pm	H. Khanduri, Mukesh C. Dimri, Prashant Kumar, S.A. Khan, J. Link, R. Stern, R.P. Pant	MS 037	Enhancement in the ferromagnetic τ -phase of the MnAl thin films by ion beam irradiation
03:45 pm	AabidHussainShaik* and Kodi Rajesh Kumar	MS 038	Novel Al-layered double hydroxide (Al-LDH) loaded polyurethane (PU) foam polymer nanocomposite for efficient photocatalytic degradation of textile dyes
04:00 pm	Debashish Pal and Gobinda Gopal Khan*	MS 040	Co-catalyst coupled Engineered TiO ₂ Nanostructure Photoanode for Solar Energy
04:15 pm	Jyoti Sharma	MS 043	A detailed analyses on factors affecting sensitivity of nanofluids
04:30 pm	Meenhaz Ansari	MS 044	Electron-Phonon Interaction and Chirality Effect on Some Thermoelectric Properties in Graphene
04:45 pm	Nivetha Martin	MS 045	Decision Making on Optimal Selection of Nanomaterials
05:00 pm			
05:15 pm	Meera R Gumaste, Gururaj Anand Kulkarni	MS 048	Analysis of X-ray Diffraction Spectra, Electrical and Luminescence Properties of Undoped and Fe Doped CdTe Nanoparticles

Technical Session: ICRTMD 02 (Invited Speakers/ Faculty/ Scientist)

Date: 22.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Banishree Sahoo, Manoranjan Arakha	MS 049	Photocatalytic activity of biosynthesized silver nanoparticle fosters oxidative stress at nanoparticle interface resulting in antimicrobial
12:30 pm	P.V. Ramana	MS 050	Structural Damage Detection Through Artificial Intelligence
12:45 pm	Mamta Sharma	MS 051	Electrochemical Supercapacitor Studies of Mixed Ternary Transition Metal Manganites as Potential Electrodes
01:00 pm	Soumy Dey, Robert Ravi, Veena Raguapathi	MS 052	Development of high capacity SnO ₂ anodes for alkali-ion batteries
01:15 pm	S.C. Rakesh Roshan, N. Yedukondalu, R. Rakesh Kumar	MS 053	Low Lattice Thermal Conductivity Materials - Design Perspective
01:30 pm	Reena V. Saini, Indu Hira	MS 057	Immuno-enhancing and Anticancer Potential of the Pectin-Guargum-Zinc oxide Nanocomposite: Two Pronged Strategy
01:45 pm	Ahana Mukherjee, Amandeep Saini, Rajendra Prasad, Atanu Banerjee, Ranjita Ghosh Moulick	MS 058	Synthesis and microcontact printing of a 2D nanocomposite on a solid support to check microbial adhesion
02:00 pm	Bhaswati Chakraborty	MS 059	High Performance ZnO-Based Electrical Biosensor Towards Label-free Point of Care Disease Diagnostics
02:15 pm	Vijaylakshmi Dayal	MS 060	Magnetolectric coupling and Energy Harvesting properties of 3-0 patterned Ferroelectric/ferromagnetic composites
02:30 pm	Namita Bhoi, Sanjeeb Kumar Sahoo, Fahima Dilnawaz	MS 062	Curcumin-loaded mesoporous silica nanoparticles for breast cancer therapy
02:45 pm	Dr. Sajid Babu Nalakath, Dr. M. Abdul Khadar	MS 063	Electrical Properties of Grain Size Tuned CdSe Nanocrystal Films for Solar Cell Application
3:00 PM	BREAK		
03:30 pm	P.K. Mandal, Martin Anto, Nimish M. Lal, Binu Thomas	MS 065	Ageing Precipitation Behavior on Mechanical and Corrosion Properties of Friction Stir Processed a New Aerospace Al-Li Alloy
03:45 pm	Aryadeep Roy Choudhury	MS 066	Silicon nanoparticle-pulsing ameliorates fluoride stress in rice by fine tuning the ionic and metabolomic balance and improving agronomic traits
04:00 pm	Shubhankar Kumar Bose, Suresh Saini, Ramesh Bhawar	MS 067	Efficient Synthesis of Alkyl and Aryl Boronate Esters Enabled by Reusable Nano Catalysts
04:15 pm	Sandeep Kumar	MS 069	Effect of citrullus colocynthis on hair growth in albino rats
04:30 pm	Mahender Singh	MS 070	Polaron induced optical parametric interaction in magnetoactive semiconductor plasmas
04:45 pm	Puranjay Saha, Athulya Thomas, Muhammed Sahad E, Bikas C. Das	MS 288	Multifunctional Emerging Resistive Switching Devices
05:00 pm	Devender Singh	MS 072	Operating features of parametric amplification in magnetoactive A ^{III} B ^V semiconductor crystals
05:15 pm	Jaivir Singh	MS 074	Nonlinear refractive index and absorption coefficient of scattered Stokes mode in n-type doped gallium arsenide

Technical Session: ICRTMD 03 (Invited Speakers/ Faculty/ Scientist)

Date: 22.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Arun Kumar	MS 075	Role of lattice displacement in parametric amplification of nondegenerative semiconductor magneto-plasmas
12:30 pm	Sandeep	MS 076	Optical phase conjugation via stimulated Brillouin scattering in acousto-optic diffusion driven semiconductors
12:45 pm	Dr. J. Anuradha, Dr. R. Sanjeevi, Prof. (Dr.) Sandeep Tripathi	MS 077	Insights of Nano Safe Technology: Plant Health Management and Future Perspectives
01:00 pm	Balram	MS 078	Parametric interaction of acoustic waves in magnetoactive semiconductors – A numerical approach
01:15 pm	Aruna Priya P., Lakshmi Thara R.	MS 079	Silver Coated 1D Random Photonic Crystals for Biosensing
01:30 pm	K. Pavani, J. Suresh Kumar	MS 080	Optical thermometry using rare earth activated compound
01:45 pm	Navneet Singh	MS 081	Synthesis of SnO ₂ nanocomposites by sol-gel method and their characterization
02:00 pm	Jyoti Katyal	MS 082	Plasmonic in Metal Nanoparticles for sensor and SERS application
02:15 pm	Devasish Chowdhury, Sazzadur Rahman	MS 083	Biopolymer Nanocomposite Materials for Food Packaging Applications
02:30 pm	Greeshma K.P., R. Thamizselvi, S. Muthulingam, Sam John, V. Subhapriya	MS 084	Evaluation of Photocatalytic Dye Degradation Using ZnO Nanoparticles from <i>Catharanthus Roseus</i> Leaf Extracts
02:45 pm	Manisha Agrawal, Sarvaree Banoa	MS 086	An Overview of Bionanocomposite Films and its Application
3:00 pm	BREAK		
03:30 pm	Savita Garg, Neetu Rani	MS 087	Understanding the Dynamics of Wave Propagation in Diverse Media through Equations of Motion and Wave Equations
03:45 pm	Binaya Kumar Sahu, Utkalika P. Sahoo, Gurupada Ghorai, Sourav Pan, A. Das, Pratap K. Sahoo	MS 093	Scalable Fabrication of Diamond-Shaped Gold Nanoparticles for Catalysis Reaction Monitored Under In-situ Raman Spectroscopy
04:00 pm	Rajneesh Kumar, Nidhi Sharma, Supriya Chopra	MS 094	Analysis of Distinct Fractional Order Derivatives on Axi-Symmetric Problem in Photothermoelastic with Diffusion under Hyperbolic Two Temperature
04:15 pm	Shivani, Surender Duhan, Sonia Nain	MS 095	One route aqueous synthesis of 3D cubic mesoporous Gd ₂ O ₃ /KIT-6 nanocomposite with incorporating hydrothermal methodology
04:30 pm	Anoop S. Nair, Aswathy L.B., Archana S. Nair, Sooraj M.P.	MS 096	An Insight to Drug Delivery Devices for Non-Conventional Routes of Drug Administration
04:45 pm	Milan Pahwa, Maninder Kaur	MS 097	Anaerobic co-digestion of bagasse and filter cake for biogas production
05:00 pm	S. Tamgadge, P.P. Gedam, R.P. Ganorkar, G.G. Muley	MS 099	Synthesis and Characterization of L-ascorbic acid capped Cr doped ZnS Nanoparticles
05:15 pm	Madhulata Shukla	MS 100	Synthesis of Nanoparticles in Ionic Liquid and Photocatalytic Study Using Spectroscopic & DFT Techniques

Technical Session: ICRTMD 04 (Invited Speakers/ Faculty/ Scientist)

Date: 22.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Someshwar Pola	MS 103	Synthesis and Characterization of dibenzo[a,g]coronene and their thin film transistor properties
12:30 pm	Jyotirmoy Nandy, Gour Gopal Jana, Subhashis Roy, Bijoy Kantha	MS 104	A Proposal to Design MEMS based IOT Health Care Sensor
12:45 pm	B.C. Jamalaih, V.S. Bhagavan Netheti	MS 105	Tb ³⁺ :Li ₆ AlGd(BO ₃) ₄ phosphors for lighting applications
01:00 pm	R.Y. Bakale, Y.G. Bakale, Y.S. Tamgadge, R.P Ganorkar, S.V. Khangar	MS 106	Investigation of Optical properties of a copolymer polymer blend
01:15 pm	Smitha Vijayan, Jisha M.S.	MS 109	In vitro examination of anticancer effectiveness of chitosan/biogenic silver nanoparticle conjugate on MDA-MB Cell
01:30 pm	Vaidhegi Kugarajah	MS 111	Evaluation of hydrocarbon-based non fluorinated membranes as electrolytes for efficient Microbial Fuel Cell performance
01:45 pm	S. Sumathi	MS 112	Biomedical application of substituted hydroxyapatite-polymer
02:00 pm	Dr. Shivani R Pandya	MS 113	Exploring the Boundless Potential: Surface-engineered Magnetite Nanoparticles in Environmental, Biomedical, and Forensic Sciences
02:15 pm	Banupriya M., Umadevi M., Parimaladevi R.	MS 114	Sandwich Composites of Polygon-Shaped CFO Substrate adorned with BiS NPs: Strategy to Manage and perform as Heavy Metal Sensor, Anti-Fungal and Photocatalytic Application
02:30 pm	Swarup Roy	MS 115	Biopolymer-based films and coatings in food packaging applications
02:45 pm	Amrit Kumar Thakur	MS 116	Development of Novel Coating Material for Solar-Thermal Conversion
3:00 pm	BREAK		
03:30 pm	Kuldeep Mishra	MS 117	Role of micro/nano-size ceramic fillers in enhancing electrochemical properties of flexible polymer electrolyte membranes for metal/ion batteries
03:45 pm	Zeenat Arif	MS 119	Biogenic synthesis of TiO ₂ NPs by extract from Pigeon Pea for elimination of hexavalent chromium from wastewater
04:00 pm	S. K. Srivastava, R. Basumatary, R. Brahma	MS 122	Crystal Structure, Surface Roughness and Magnetic Properties of FePtCo Ternary Alloys Thin Films
04:15 pm	Tinku Basu, Chansi	MS 126	Uniform and Rapid Film with Precise composition and structure for Device Application: Electrochemistry is the Pathway
04:30 pm	A.B. Hemavathi, A.V. Jyothi, A.N. Akshatha, C.M. Dhanya, Ibrahimsab, N.R. Amrutha, P.S. Keshavamurthy	MS 127	Preparation and Characterization of Eco-friendly Functional Food Packaging Film based on PLA/PCL/Turmeric Essential Oil
04:45 pm	Dr. Sunitha G.	MS 129	Hall Effect and Chemical reaction of nanoparticle shapes on peristaltic flow through asymmetric channel of Casson fluid in presence of slip effects

05:00 pm	M. Razia	MS 130	Allucin mediated bio-fabrication of Silver nanoparticles and comparison of its antioxidant, antibacterial and anticancer activity with garlic extract
05:15 pm	Rashmi Dhawan	MS 132	Activated Carbon: The Black Diamond

Technical Session: ICRTMD 05 (Students)

Date: 22.07.2023

Time: 12:15 PM to 04:50 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Konica Sharma, M.K. Malik, M.S. Goyat	MS 001	Triethoxyoctylsilane (TEOS) Modified Silica as Potential Superhydrophobic Coating For Corrosion Resistance Applications
12:25 pm	R. Madhukumar, Mohan N.R, Rajesha Nairy K, Yesappa L	MS 031	Influence of Ionizing Radiation on Bio-synthesis of Colloidal SF-AgNPs: Their Characterization
12:35 pm	Ruksana Sirach, Pragmesh N Dave	MS 032	β -cyclodextrin polymer reinforced with nanosize zinc ferrite: synthesis, characterization, thermal stability, and adsorption application
12:45 pm	Shomaila Khanam, Sanjeeb kumar Rout	MS 034	Synergetic effect of silver molybdenum tungsten oxide heterostructures for enhanced photocatalytic reaction
12:55 pm	Jayalakshmi Vallamkondua, Buchaiah Gollapellia, Ramadevi Suguru Pathintia,	MS 039	Cholesteric Liquid Crystal Microdroplets for Biosensor and Anti-Counterfeiting Applications
01:05 pm	Deepak Kumar, Vinod Kumar	MS 041	Roles of Solid waste derived Carbon for Supercapacitor Applications: A Review
01:15 pm	Kailas Kantilal Sawant, Anwasha Satapathy, Bhavana Shanmughan, Balasubramanian Kandasubramanian, Anthonisamy Arockia Bazil Raj	MS 054	Statistical Analysis of nanocomposite Membrane of polyester for EMI Shielding Applications
01:25 pm	Anita Sharma, Priyanka Verma	MS 055	Forensic analysis of physical disruption of human hair after being treated with Henna and Dyes
01:35 pm	Monika Mishra, Rizwan Arif	MS 064	Comparative studies of Electrical, Magnetic & Dielectric Studies of Zirconium doped Barium Titanate based Mutiferroic Systems
01:45 pm	Rajesh Kumar Raj, V.K. Sharma, Prashant Joshi, Harji Ram Choudhary	MS 035	Graphene Based Thz Array (Dipole Elements) For High Speed Wireless Applications
01:55 pm	Jigyasa Bhardwaj, Gagan Anand, Shilpi Jindal	MS 345	Prospective features of Fiber Optic Communication and its futuristic applications
02:05 pm	Pravesh, Manjeet Singh	MS 073	Parametric interactions in ion-implanted semiconductor plasmas
02:15 pm	Bhawini Prasad	MS 088	Mathematical Study Of Nanocomposites For Drug Delivery In Capillary
02:25 pm	Yashna A, Veena Ragupathi	MS 089	Superior electrochemical performance of SnSe-PPy nanocomposites for Supercapacitor application
02:35 pm	Jyoti, Prof. Rajeshwari Pandey, Prof. N.S. Raghava	MS 091	A Linearity Improvement with Low Reflection Coefficient LNA for WSN Applications
02:45 pm	Jyoti, Prof. Rajeshwari Pandey, Prof. N.S. Raghava	MS 092	Impact of Technology Scaling on CMOS Low Noise Amplifier Parameters: A Tutorial

02:55 pm	Tesfaye Barza, Mahaboob Patel	MS 098	Review on Performance Enhancement of Nano-Refrigerant (R-134a/Al ₂ O ₃) in Vapor Compression Refrigeration System at Steady-state Condition
03:05 pm	Shwetha KP, Manjunatha C, Yash N Athreya, Sudha Kamath MK, Chandresh Kumar Rastogi, Ajit Khosla	MS 102	Synthesis of Mn-doped NiS ₂ nanostructures and fabrication of high-performance asymmetric coin cell type supercapacitor
3:15 PM	BREAK		
03:40 pm	Dhirendra Patel, Akansha Mishra	MS 107	Hybrid Sustainable Nanomaterials Using for Nanofluids of Advance Applications and Challenges of Future Scope
03:50 pm	Anju Punia, Hina Dalal, R.K. Malik	MS 110	Combustion synthesis and study of double charge transfer insol-gel synthesized cool white-emitting Dy ³⁺ activated vanadate-based nanophosphor for solid-state lighting
04:00 pm	Shubha M B, Manjunatha C	MS 121	Development of NiCoO ₂ Nanoparticles based Electrochemical Sensor with Extremely Low Detection for Hazardous 4-Nitrophenol
04:10 pm	Arvind Kumar, Adesh Kumar	MS 124	Study and Simulation of Scalable Multiplexer Hardware for Communication Networks
04:20 pm	Vishab Kesarwani, Vineet Kumar Rai	MS 125	Upconversion and CIE colour coordinate study of 980 nm excited Er ³⁺ doped molybdate based phosphor
04:30 pm	K. K. Singha, S. K. Srivastava	MS 131	Mg/Ag co-doped SnO ₂ Nanoparticles for Optoelectronic Application
04:40 pm	Gopal, Manjeet Singh	MS 068	Raman oscillations in weakly-polar magnetoactive III-V semiconductors

Technical Session: ICRTMD 06 (Students)

Date: 22.07.2023

Time: 12:15 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Ismail S.K., Nandan Pakhira	MS 135	Investigating the electronic properties of CuBSe _{1-x} Te _x (x = 0.125, 0.25) chalcopyrite semiconductors
12:25 pm	Namita, Arti, Naushad Alam, Jamilur R. Ansari	MS 136	A facile study to cobalt decorated MoS ₂ sheets for enhanced electrochemical sensing applications
12:35 pm	Shahina Perween, Arun Kumar Singh, Jamilur R. Ansari	MS 137	Nanostructured Materials for Solar Cell Applications
12:45 pm	Arti, Namita, Naushad Alam, Jamilur R. Ansari	MS 144	Silver Sulphide decorated graphene sheets for enhanced electrochemical sensing application
12:55 pm	Priyavrat, Anil Kumar Singh, Jamilur R. Ansari	MS 145	A study of iron oxide (Fe ₂ O ₃) nanocomposites in advanced biomedical and sensing applications
01:05 pm	Saurabh Parmar, Dr. Anil Kumar Singh	MS 147	Green synthesis of Silver and Copper Nanoparticles using the different plants extracts of Indian habitat and their comparative study
01:15 pm	Mohini Verma, Amitabha Acharya	MS 149	Functionalized biogenic silica nanoparticles embedded hydrogel with enhanced antibacterial and cell proliferative properties
01:25 pm	Chaithra R., Renuka C.G	MS 151	Optical properties of Swamp Hibiscus

01:35 pm	Harshitha D., Renuka C.G	MS 152	Nerium oleander -Natural dye: Focus on optoelectronic properties
01:45 pm	DivyamMishra, Vishal Soni, Jamilur R. Ansari	MS 153	Artificial Intelligence based algorithms using nanomaterials for medical applications
01:55 pm	Sonampreet Kaur, Kumar Gaurav	MS 154	A Comprehensive Analysis of the Development of Bioethanol from Lignocellulosic Hydrolysates
02:05 pm	Trilok Chand Saini, Amitabha Acharya	MS 159	Gallic acid functionalized fluorescent molybdenum disulfide quantum dots serve dual activity against amyloid and biofilm formation
02:15 pm	Mansia, Jaya Lohania, Manish Mathew, Kamal Lohani, Ravneet Kaur, Anju Agrawal, D.S. Rawal, M.V.G. Padmavati	MS 160	Thermal annealing effects on crystallinity of MOVPE grown p-type GaN
02:25 pm	Shiwani Randhawa, Amitabha Acharya	MS 161	Gold nanoparticles modulate protein aggregation induced autophagic cell death
02:35 pm	Manik Bathla, Amitabha Acharya	MS 162	Development of metal ion scavenging carbon nanomaterial to reduce neurotoxicity
02:45 pm	Shamanth S. Nadig, Shivraj B. W, Manjunatha C.	MS 164	Recent Developments on Bimetallic Selenides Nanostructures for Supercapacitor Applications
03:00 pm	BREAK		
03:30 pm	Nikhil Kumar, Jamilur R. Ansari	MS 165	Artificial Intelligence powered nanobots using nanomaterials for early disease identification
03:40 pm	Anjali Mehta, Divyam Mishra, Jamilur R. Ansari	MS 166	Nanoscale Communications and Nanonetworks for various domains
03:50 pm	Vishal S. Bhasingi, Praphul Chandra A.C, Manjunatha C.	MS 170	Recent Developments on Nickel chalcogenides for Hydrogen generation
04:00 pm	Arya Hariharan, Manjunatha C.	MS 172	Design of Bone Health Detecting Biosensor: Advances in Materials, Technology, Challenges and Solutions
04:10 pm	Anil Subash S., Manjunatha C.	MS 177	Novel cerium (III) sulphate nanoflowers decorated reduced graphene oxide for electrochemical vitamin-C sensor
04:20 pm	Ravi Sankar Reddy M., S. Kaleemulla	MS 178	Structural, Optical and Electrical Properties of Cu doped ZnS Nanoparticles Prepared by Solid-State Reaction
04:30 pm	Srinivasa N.V., H.M. Mahesh, Basavaraj Angadi	MS 179	Ammonia gas sensing applications of Sn-doped NiO thin films
04: 40 pm	Aruna Pant, Adesh Kumar	MS 180	Study and Simulation of Scalable Demultiplexer hardware by using Different VHDL Modeling for Communication System
04:50 pm	Pinki Kumari, Manjeet Singh	MS 071	Hot carrier effects on polaron induced parametric amplification in polar semiconductors

Technical Session: ICRTMD 07 (Students)

Date: 22.07.2023

Time: 12:15 PM to 04:40 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Sarita Devi, Manoj Kumar	MS 181	Some common fixed point theorems using - metric space via simulation function
12:25 pm	K.A. Vijayalakshmi, Sowmiya K.C.	MS 182	Reinforce the surface properties of domestic garbage activated carbon by low temperature plasma accustomed in energy storage applications
12:35 pm	Bhavishya Chaturvedi, Jamilur R. Ansari	MS 185	Reinforcement learning and edge intelligence using quantum structures
12:45 pm	Vrishty Kundu, Sathi Das, Omita Nanda, Dalip Singh Mehta, Kanchan Saxena	MS 187	Simulation and Optimization of Optical Properties of Si-NWs for Hybrid Solar Cells
12:55 pm	B. Dey, S.K. Srivastava	MS 189	Influence of Ag doping on structural, optical, and magnetic property of ZnO compound
01:05 pm	Ashwini Chavan V.M., Manjunatha C, Shireesha G	MS 192	Synthesis, Characterization, And Properties of Nickel Aluminium Layered Double Hydroxide and Carbon Nanotubes Composites for Supercapacitor Applications
01:15 pm	Dhruti Upadhyaya, Avani Ramesh, Sudha Kamath M.K., Manjunatha C.	MS 198	Design of Piezoelectric Material based Heart Rate Measuring Sensor System
01:25 pm	Arpan Katoch, Dixit Sharma, Manish Kumar	MS 204	Iron proteome of obligate intracellular pathogen <i>Chlamydia trachomatis</i>
01:35 pm	Chandni Kumari, Avipsa Pradhan, Rishita Singh, Kamal Saini, Jamilur R. Ansari	MS 210	Role of Deep Learning, Radio mics and Nanotechnology in Cancer Detection
01:45 pm	H.R. Aneesh Tejas, Dr.Veena B.T., Hitesh S.P., Aryan Jha	MS 214	Toxic effects of heavy metals in water
01:55 pm	Samriti, Pooja Kumari, Manish Kumar	MS 215	Prinsepia Utilis Seed Extract Mediated Green Synthesis of Silver Nanoparticles and their Antibacterial Activities
02:05 pm	Anu, Pooja Kumari, Manish Kumar	MS 216	Green synthesis of Titanium dioxide Nanoparticles by Utilizing <i>Marchantia Polymorpha</i> and their Application in Dye removal
02:15 pm	Savari Susila G., S. Joseph Selvaraj	MS 217	The highly effective electrochemical oxidation of substituted benzyl alcohols in a biphasic medium is mediated by bromate on a platinum electrode
02:25 pm	K.A. Vijayalakshmi, Judith Fennila T.	MS 223	Blend of low cost electrode material for energy storage device under DC glow discharge plasma exposed ESAC
02:35 pm	S. Saveetha, K.A. Vijayalakshmi	MS 224	Magnifying the GCD behaviour of FePO ₄ composite with Low temperature Plasma exposed Bamboo charcoal enforced in energy storage devices
02:45 pm	Ritupurna Baishya	MS 226	Transition metal based materials for aluminium batteries
02:55 pm	Shifali Choudhary, Kirna Devi, Prof. Sunil Kumar, Alka, Dr. Rajender Kumar	MS 227	Neem oil coated Zinc Oxide nanoparticle and its biopesticidal activity on <i>Callosobruchus maculatus</i>
03:05 pm	BREAK		
03:30 pm	Akshay Kumar, Kanchan Khanna, Sunil K. Dwivedi, Sunil Kumar	MS 230	Temperature dependent Dielectric, Impedance Spectroscopy and hopping Mechanism in

			NiFe ₂ O ₄ modified Pb _{0.75} Nd _{0.25} TiO ₃ based Multiferroic Composites
03:40 pm	Titu Thomas, Manu Vaishakh	MS 232	Spatial Self-Phase Modulation in Pyrromethene 567 for Optical Applications
03:50 pm	Sangam Bharti, Kirna Devi, Rajender Kumar	MS 233	GO@PEI@Starchnanocomposite for methylene blue adsorption from water
04:00 pm	Harish Sharma, Ishani Saini, Munish Sharma, Munish Sharma, Rajender Kumar	MS 235	Phytotoxicity Assessment of PEI-Coated Copper Oxide Nanoparticles in Agricultural Plants
04:10 pm	B. Anugop, M. Kailasnath	MS 238	Tunable emission of polymer optical fibre random laser by resonance energy transfer
04:20 pm	Ahana Hazra, Amalesh Samanta	MS 239	Orally active capecitabine-loaded biopolymeric microsphere inhibiting the proliferation of human colon cancer: in vitro and in vivo evaluation
04:30 pm	Reetika, Ishani Saini, Rajender Kumar	MS 241	Functionalization of Dopamine with Amino sugar for Advanced Applications

Technical Session: ICRTMD 08 (Invited Speakers/ Faculty/ Scientist)

Date: 23.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	S. Umadevi, R. Dharani	MS 133	Photo-thermal actuators based on polyaniline incorporated liquid crystal Elastomers
12:30 pm	Suma N.D., Sreeshma N., Anjali B.	MS 134	Aqueous extract of CycleaPeltata leaves adsorption behavior towards aluminium corrosion in alkaline media
12:45 pm	Tejendra K Gupta, Akshita	MS 138	Carbon nanostructures based flexible strain sensors
01:00 pm	Dr. Santanu Bhattacharyya	MS 139	Optimizing Sustainable Nanomaterials for Photocatalytic Conversion of Solar Energy to Green Hydrogen
01:15 pm	Jashandeep Kaur	MS 140	Nano-based materials in medical applications
01:30 pm	Deblina Biswas	MS 141	Biomedical applications of nano-based Photoacoustic technique
01:45 pm	Dipsikha Bhattacharya	MS 142	Development of Hyaluronate Tethered Magnetic Nanoparticles for Targeted Anti-Cancer Drug Delivery
02:00 pm	Jamilur R. Ansari, Anindya Datta	MS 143	High response of MoS ₂ quantum dot by photoluminescence for sensing of As (III) over wide range
02:15 pm	Prasun Mukherjee	MS 146	Photoluminescence of Trivalent Lanthanides in the Context of Post-synthetic Modification of Semiconductor Nanoparticles
02:30 pm	Dr. Nagaiah Kambhala	MS 148	Recent Advances of Metal Oxides Nano Structures and Their Nanocomposites for Hydrogen Evolution
02:45 pm	Sudeshna Saha	MS 150	Innovative Chemical Engineering: Advancing Sustainable Solutions towards Air and Water Pollutants
03:00 pm	Sindhu Singh	MS 155	Effect of different dopants on Dielectric behaviour of BaTi _{0.85} Sn _{0.15} O ₃
03:15 pm	BREAK		
03:45 pm	Richa Srivastava	MS 156	Synthesis of polymer electrolytes and it's application

04:00 pm	Kumar Gaurav	MS 157	Transesterification of waste cooking oil for the production of biodiesel by microwave-assisted process
04:15 pm	Ruchita Gupta, Megha Goel, Jamilur R. Ansari	MS 158	Role of semiconductor nanomaterial's using AI for efficient solar devices
04:30 pm	Dr. Indradeep Kumar, Dr. C. Dhanasekaran, Dr. Kuldeep Kumar Saxena	MS 163	Performance and Emission Characteristics of Cotton Seed Oil as Nanofuel With SWCNTs as Nanoadditives
04:45 pm	Lakshmi K. Singh	MS 168	Modifications in metal oxide based semiconductors for application as photo anode in Photovoltaic cells
05:00 pm	Rehan Khan, Akshay Vyawahare	MS 169	Chlorotoxin-decorated Therapeutic Nanomicelles for the localized therapy of Experimental Arthritis
05:15 pm	Himadri Acharya	MS 171	Metal organic framework encapsulated noble metal nanoclusters in catalytic nitrophenol reduction

Technical Session: ICRTMD 09 (Invited Speakers/ Faculty/ Scientist)

Date: 23.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Sibasish Dutta, Dimpri Paul	MS 173	Bioconjugation detection using mobile phone spectrometry
12:30 pm	Savita Nagoria	MS 174	Recent advancements on the antibacterial properties of gold nanoparticles
12:45 pm	Dimpri Paul, Sibasish Dutta	MS 175	Conventional D-shaped optical fiber alcohol sensor based on LSPR phenomenon
01:00 pm	Barnali Ghosh (Saha)	MS 176	Engineering Emerging Perovskite Materials As New Generation Solid State Sensors & Detectors
01:30 pm	Dr. Vidhi Grover	MS 183	APPLICATIONS OF NANO ENGINEERED MATERIALS IN ADDRESSING ENVIRONMENTAL POLLUTION
01:45 pm	Ashima Pahwa	MS 184	An overview of gold nanoparticles as potent antifungal agents
02:00 pm	Kifayat H. Mir, Tarun Garg	MS 186	Binary and Ternary Metal Oxides Based Non-Volatile Resistive Random Access Memories
02:15 pm	Subhankar Das, Nikhil Kumar Sharma, Vishwesh Mishr, Rushabh Bhurat, Ankita Singh	MS 188	Assessing Friction and Wear Behaviour of Epoxy Composites Filled with Chopped Carbon Fibers
02:30 pm	Muhassinah Tasneem, Arya P., K.C. Sekhar, K. Kamakshi	MS 191	Heterojunction and doping effect on ferroelectric polarization driven photocatalytic activity and photocurrent studies of spin coated $0.6\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3 - 0.4(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ thin films
02:45 pm	Dr. S. Narendhran	MS 193	Synergistic effect of iron and cobalt doped ZnO Nanoparticles using <i>Alpinia galangal</i> against <i>Candida Parapsilosis</i>
03:00 pm	BREAK		
03:30 pm	Padmini R., Paleti Srinivas	MS 194	Experimental investigations to examine the potential of additive based eco-prudent cutting fluids applied to CNC machining using Machine Learning algorithms
03:45 pm	A. Sharma	MS 196	Tb incorporation in ZnO nanoparticles: A novel way to govern the structural and electronic properties

04:00 pm	Amodini Mishra	MS 197	Two dimensional Magnetic Nanocomposites Properties and their Applications
04:15 pm	S. Shankar, Chitrlekha, S. Gaurav, O.P. Thakur, M. Jayasimhadri	MS 199	Advancements in Magnetoelectric and Energy Storage Performance of Spinel Ferrite Composites for Hydroelectric Cell Applications
04:30 pm	Usharani Nagarajan, Saravanan Natarajan	MS 201	Solvent Mediated Synthesis and Biophysical Characterization of a Peptide Based Delivery System for Potential Therapeutic Applications in Tuberculosis
04:45 pm	Poonam Kumari Gautam, G.C. Rana	MS 202	Linear Stability Analysis of Thermal Convection of Non-Newtonian Jeffrey Nanofluid Layer in Porous Medium
05:00 pm	Jyoti Sharma, Subhasha Nigam, Monika Joshi	MS 203	Ecofriendly nanomaterials for the removal of emerging contaminants from water
05:15 pm	Ashish Mishra	MS 206	A Numerical Study on the Ballistic Trauma of B ₄ C ceramic backed UHMWPE Composite Armour System

Technical Session: ICRTMD 10 (Invited Speakers/ Faculty/ Scientist)

Date: 23.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Mukesh Kumar, Ramesh Chandra	MS 207	Studies of structural and optical properties of SiC thin films
12:30 pm	Manoj Raula	MS 208	Fascinating Role of Organic and Inorganic Ligands on The Shape Control And Reactivity of the Nanoparticles
12:45 pm	Abhyavartin Selvam, Yashtika Raj Singh, Amarnath Karna, Amit Bhatnagar, Monalisa Mukherjee, Sandip Chakrabarti	MS 209	Janus-Metal-Organic Framework (J-MOF) Boat as a Nascent Conglomeration in the Arena of Solar Driven Desalination
01:00 pm	Pankaj Pathania	MS 211	Refractory Transition Metal Nitrides Plasmonic Nanomaterials for Bio-Sensing
01:15 pm	Ashok Kumar	MS 212	Photocatalytic Application of Metal oxides based Nanocomposites
01:30 pm	Abhilasha Mishra, Amena Ali, Sobhagya Rastogi, Akanksha Rajput	MS 213	Synthesis and characterization of nanostructured antimicrobial coating
01:45 pm	Dr. Arindam Ghosh	MS 218	Structural, electrical and optical properties of pure and Ru doped ZnO nanocrystals
02:00 pm	Sumit Kumar, Vivek Kumar Verma, Suraj Kumar	MS 219	Enhancement of magnetic properties of Soft and Hard Spinel Ferrites (Nickel & Cobalt Ferrite) via Zn doping
02:15 pm	Asim Kumar Roy Choudhury	MS 220	Greener Approaches in Textile Industry
02:30 pm	K.A.Vijayalakshmi	MS 222	Role of Low temperature Plasma exposed Bamboo charcoal/ FePO ₄ composite in energy storage applications
02:45 pm	P. Kamaraj	MS 225	Enhanced hydrogen evolution using CeO ₂ based nanomaterials as a photocatalyst
03:00 pm	BREAK		
03:30 pm	Rishi Pal, Sneha Lata Goyal, Shashi Kala Gupta	MS 228	MWNCTs embedded Polyaniline based Composites for Electrical Applications

03:45 pm	Anand Kumar	MS 229	Investigating structural and DC conductivity properties of aged copper sulphate doped polyaniline
04:00 pm	Rishi Pal	MS 231	Conjugated Polymers based Nanocomposites for various Electrical Applications
04:15 pm	Dr. Shamina, Dr. Phool Singh	MS 240	Interspecific Divergence of Adh enzyme, ethanol & acetic acid tolerance in Three Cosmopolitan Drosophila species from India
04:30 pm	SATHISH KUMAR .C, SRIRAM E., VISHWA PRIYA .A., Jayanthi S.S	MS 242	Eco friendly and simple methodology for the synthesis of Cobalt-TMAMetal organic framework (Co-MOFNP), characterization and their extended application
04:45 pm	Indira Viswambaran Asharani	MS 248	Green Synthesized Metal/Metal Oxide Nanomaterials as Efficient Catalysts for Environmental Remediation
05:00 pm	Dr. Vidhi Mann	MS 249	Enhancement in Light Absorption of Organic Solar Cell using Diffractive Grating
05:15 pm	Arul P., Helen Prabha K., Abirami N.	MS 254	Modeling of Schottky Barrier Dual Gate CNTFET and Investigation of Short Channel Effects

Technical Session: ICRTMD 11 (Invited Speakers/ Faculty/ Scientist)

Date: 23.07.2023

Time: 12:15 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Phey Yee Foong, Chun Hong Voon, Bee Ying Lim, Pei Leng Teh, Cheow Keat Yeoh, Mohd Afendi Bin Rojan, Nor Azizah Parmin, Subash C.B. Gopinath, Foo Wah Low, Muhammad Kashif, Nor Azura Abdul Rahim, Sung Ting Sam, Veeradasan Perumal	MS 255	Enhancing Hydrophobicity of Silicon Carbide Nanowhiskers by Surface Treatment for Improved Microwave Welded Joint
12:30 pm	Abirami N., Arul P.	MS 256	Facial Detection and Attendance Management system using Artificial Intelligence unconventional computing
12:45 pm	Bhupesh Nandurkar, Boskey Bahoria, Pawan Hinge	MS 257	Effectiveness of Glass Fiber-Reinforced Mortar for Improving Durability in Structures
01:00 pm	Manosree Chatterjee, Abhiram Hens, Ritwik Maity, Namita Jaiswal, Nibedita Mahata, Nripen Chanda	MS 261	Effective designs of monitorable nano-carriers with the ability to control the drug release
01:15 pm	Benny Sebastian, Jasmine Joseph Manoj, George Thomas C.	MS 263	ANTIBACTERIAL STUDY OF TIN-OXIDE – GRAPHENEDERIVATIVES
01:30 pm	S.V. Khangar, O.P. Chimankar, Y.S. Tamgadage, R.Y. Bakale	MS 268	Ultrasonic and spectroscopic investigation of aqueous polyvinyl (PVA) alcohol solutions
01:45 pm	Amol C. Badgajar, Sanjay R. Dhage	MS 269	Review of Thin-film Solar cells using Cu(In,Ga)Se ₂ based Nanomaterials
02:00 pm	Akshay S, S.C. Prashantha, Y.S. Vidya	MS 270	Influence of Ag doping on structural, optical and photoluminescence properties of zirconium titanate nanoparticles
02:15 pm	Ajay Gahlot	MS 274	Theoretical modelling of electrostatic wave excited by an ion beam in a plasma cylinder with negative ion

02:30 pm	B. Y. Lim, C.H. Voon, S.C. Ng, P.L. Teh	MS 279	Effect of Stearic Acid on Poly(MethylMethacrylate) Hybrid Nanocomposites
02:45 pm	Sourav Kundu, Tapan Kumar Nath	MS 287	Destabilization of a glassy magnetic state and observation of metal-insulator transition in nanometricNd _{0.8} Sr _{0.2} MnO ₃ manganites
03:00 PM	BREAK		
03:30 pm	Dr. Rahul Dev Mukhopadhyay	MS 061	Audible Sonochemistry with Supramolecular Systems
03:45 pm	Dr. Anupama	MS 289	Novel Flame retardantfor improved polyurethane properties for thermal applications
04:00 pm	Shovan Kumar Kundu, Soumen Basu	MS 290	Investigation on Multifunctional Properties of Lanthanum Ferrite Nanoparticles for Bismuth Substitution
04:15 pm	K. Prabha	MS 293	Structural, Optical and Surface properties of Rare-Earth and Transition metals doped Metal Oxide Nanoparticles
04:30 pm	Dr. Richa Saini	MS 299	Theory of thermal conductivity in low-dimensional structures
04:45 pm	Awadhesh Kumar Verma, Pratima Solanki	MS 300	Optical tuning of polymer functionalized zinc oxide quantum dots as a selective probe for specific detection of antibiotics
05:00 pm	Dr. Brijpal Singh	MS 301	Optimization of flux for high impact strength and low heat affected zone width In SAW
05:15 pm	Ritu Singh, Nisha Kumari, Monalisha Behera	MS 306	Fabrication of chitosan decorated magnetic nanoparticles for effective removal of dyes employing an experimental modeling tool

Technical Session: ICRTMD 12 (Invited Speakers/ Faculty/ Scientist)

Date: 23.07.2023

Time: 12:15 PM to 05:15 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	A.N. Yerpude, S.J. Dhoble	MS 313	Photoluminescence properties of lanthanides activated Borate based phosphor for environmentally friendly solid-state lighting application
12:30 pm	P. Thangavel, S. Prakasam, K.M. Arunraja, K. Kannakumar	MS 314	Optimization on the Process Parameters of AA2519 and AA6063 Joints by Friction Stir and Tungsten Inert Gas Process Welding using Response Surface Methodology
12:45 pm	Lingeswaran P, Prabakaran V, Maharaja K, Gokulaprabhu V, Joshua Gnana Sekaran J, Nanthakumar S	MS 315	Optimization on the Operating Parameters of Electrical Discharge Machining of AA5128/SiC Composites
01:00 pm	Manikandan R, Selvendran R, Chakravarthi P, Anbalagan R, Sarengan G B, Jagadeesh D, Girmurugan R	MS 316	Multi Parametric Optimization on the Wire-Cut Electric Discharge Machining for Boron Carbide Graphene Oxide/Aluminium Composites
01:15 pm	Manoj Kumar Shanmugam, Kaviya G, Dinesh N, Ramalingam R, Arunraja K M,	MS 317	Investigation on the Mechanical Properties of Hybrid Composites using Ramie Fibre and Silica Particles

	Sk Hasane Ahammad, Girimurugan R		
01:30 pm	Rajasekaran P, Suresh S, Amarnath M, Dixon Jim Joseph J, Parwar Abubakr Ahmed, Sk Hasane Ahammad, Girimurugan R	MS 318	Investigation on the Mechanical Behavior of LDPE/Pea Pods Particulate Bio-Composites
01:45 pm	Sathishkumar S, Velliyangiri V, Prabhu V D, Aswin Prakash, Sakthi S, Madhava Reddy S	MS 319	Investigation on the Mechanical and Tribological Properties of AA6063 Hybrid Metal Matrix Composites and Optimization of Wear and Friction Behaviour by Taguchi Method
02:00 pm	Vijayasekaran G, Mansoor Raja H, Mohamed Ajmal Mahasin M, Gopinath P, Sk Hasane Ahammad, Nanthakumar S, Girimurugan R	MS 320	Synergistic Impact of Silane-Modified Nano- CaCO ₃ Particles on the Mechanical Behavior of Kevlar Fiber/Epoxy Composites
02:15 pm	Binsi PK, Nebu George Thomas, Muhamed Ashraf, Zynudheen A.A.	MS 321	Demineralised fish bone as a matrix for periodontal regeneration
02:30 pm	Vikas Lahariya, Vikas, Amandeep	MS 322	A Study on doped and co-doped zinc aluminate nanocrystals
02:45 pm	Chetan Chauhan	MS 324	Contemporary voltammetric techniques and its application to pesticide analysis
03:00 pm	BREAK		
03:30 pm	Reecha Sahu, Akansha Singhai, Pratiksha Pradhan, Ashish Dadsena	MS 326	Fabrication of Keratin-ZnO nanoparticle Nanogel as a sustainable wound dressing material
03:45 pm	Balwinder Kaur, Ajay Singh, Manju Arora, Prashant Kumar, G.A. Basheed, R.P. Pant	MS 334	Mn ²⁺ ions doped Ni-Zn Ferrite Nanoparticles for Sensing Volatile Organic Solvents Vapor
04:00 pm	Surjeet Chahal	MS 335	Enhanced photocatalytic degradation of organic dye by CeO ₂ /CNT/GO hybrid nanocomposites under UV-light for wastewater treatment
04:15 pm	Dr. Narender Singh	MS 337	Grey-fuzzy logic-based technique for multi- response optimization of micro-EDM drilling of Titanium alloy
04:30 pm	Tanvir Singh	MS 339	Nanoparticles based FSW welds to Improve the Metallurgical Strength
04:45 pm	Aparna Datta	MS 340	Assessment of Hemolytic Potential of Oxide Nanoparticles as a Marker for Potential Drug- induced Hemolytic Anemia
05:00 pm	Vaishali Bhavsar, Deepti Tripathi	MS 046	Tuning low frequency dielectric properties of flexible ternary polymer blend film by reinforcing Bio Ionic Liquid for application in field of green electronics

Technical Session: ICRTMD 13 (Students)

Date: 23.07.2023

Time: 12:15 PM to 04:40 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Sahil Maraina, Tabassum Nike, Manish Kumar	MS 244	Synthesis and Characterization of Spinel Zinc Ferrite Nanoparticles for Photocatalytic Applications
12:25 pm	Rahul Kumar, Ishani Saini, Prof. Rajender Kumar	MS 245	PDA-coated Iron Oxide Nanocomposite Stability in Biological Fluids under Different Physiological Conditions
12:35 pm	Aadya	MS 246	Verifying the compliance of a General - Purpose Microcontroller with the IEEE (JTAG) 1149.1 Standard
12:45 pm	Rajnish, Naveen Kumar, Sunil Kumar, Sunita Dahiya	MS 247	Structural, Magnetic and Dielectric Properties of Fe ₂ O ₃ modified CuO Composite
12:55 pm	Satish Kumar, Kirna Devi, Dr. Rajender Kumar	MS 251	Controlled release of Ofloxacin through Polydopamine modified ninhydrin nanocomposite
01:05 pm	Ruchi, Vivek Gupta, Sneha Lata Goyal, Ranjeet	MS 252	Vibrational Spectroscopic Properties of Activated Charcoal embedded Polyaniline Nanocomposites
01:15 pm	K. Mohammed Salman, Mohamed Zikriya, C.G. Renuka	MS 253	Multilayer ZnO/MgO Deposited Thin Films for UV Detectors Applications
01:25 pm	Jignesh Kumar Parmar, Rakesh Kumar Ameta	MS 258	CTAB and [MoO ₄] ²⁻ -based MOIFs: As adsorbent for methylene blue dye
01:35 pm	A.K. Sooraj Viswam, A. Mujeeb	MS 259	Study of dynamic activity and image parameters obtained from laser-based imaging of solutions containing gold metal nanoparticles of different morphologies
01:45 pm	Sucheta M., Pramod A.G., Renuka C.G.	MS 260	Spectroscopic investigation of newly synthesized 2-(6-hydroxy-3-oxo-5-((2,4,6-trichlorophenyl)diazanyl)-3,9,9a,10-tetrahydroanthracen-9-yl)benzoic acid molecule
01:55 pm	Komal Poria, Rajesh Parmar, Sunil Dhankhar, R.S.Kundu	MS 262	Synthesis, physical and optical characteristics of TeO ₂ -B ₂ O ₃ -Bi ₂ O ₃ -SrCl ₂ glasses
02:05 pm	Kaushik Kokil Nath, Rajib Biswas	MS 264	Surface modification of electrospun PVA/Gelatin nanofibers at atmospheric pressure using dielectric barrier discharge plasma to study the mechanical properties
02:15 pm	Arup Kar, Dip Saikia	MS 265	Characterization of <i>Calamus tenuis</i> (Jati Bet) Cane Fibers as a Potential Reinforcement for Polymer Composites
02:25 pm	Asha Rani, Rajesh Parmar, R. S. Kundu	MS 266	Physical and optical properties of copper-modified bismo-borovanadate semiconducting glasses
02:35 pm	Pranay Das, Irfan Ahmad Mir	MS 271	Lignocellulose from wood waste: Extraction & characterization
02:45 pm	Sumit Tiwary, V.H. Sangeetha	MS 272	Extraction of mango seed starch and its characterization – A sustainable alternative to plastic packaging industry
02:55 pm	Aryan Singh Lather, Kanika Poonia, R.S. Kundu, Neetu Ahlawat, Anuj Nehra, Shubhpreet Kaur, Indu Sharma	MS 273	Comparative assessment of structural magnetic and impedance properties of xLaMnO ₃ -(1-x)BiFeO ₃ solid solutions
03:05 pm	BREAK		

03:30 pm	Kaushal Rajan, Smita Mathur	MS 275	A study on the effect on its mechanical properties of areca fiber reinforced recycled LDPE composite
03:40 pm	Amol Kahandal, Aruna Sivaram, Chandrakant Tagad	MS 276	Environmental and biomedical applications of Copper doped Zinc oxide nanoparticles synthesized using galactomannan as bio-template
03:50 pm	Gourav Thakur, Priya, Shiwani Berry	MS 277	Extraction of Orange Essential Oil in Coconut Oil and it's Possible Applications
04:00 pm	Chandra Prakash Gour, Priyanka Dhurvey	MS 278	Sustainable Utilization of Bone China Ceramic as Fine Aggregates in Geopolymer Concrete
04:10 pm	Shree Ranjini H.K, Nidhi Pathak, Charu Lata Dube	MS 280	Photocatalytic degradation of textile dye with titanium (IV) doped tungsten oxide nanoparticles
04:20 pm	Kamalashri N., R. Hari Krishna, B.V. Nagesh, K.N. Prathibha, R. Ananthanarayanan	MS 281	Investigations of structural and Luminescence spectroscopic Characteristics of Eu ³⁺ doped and un-doped Ca ₂ CeO ₄ nanophosphors for lighting applications
04:30 pm	Akshay Kumar, Ravi Riwariya	MS 282	Categorization of Oxide Glasses along with its Uses and Advancement in its journey: A Review Paper

Technical Session: ICRTMD 14 (Students)

Date: 23.07.2023

Time: 12:15 PM to 04:55 PM

Time	Authors	Paper ID	Paper Title
12:15 pm	Prathibha K.N, Nagesh B.V., R. Hari Krishna, Kamalashri N., R. Ananthanarayanan	MS 283	Study of Structural and Luminescence Spectroscopic characteristic in Dy ³⁺ doped Zn ₂ SiO ₄ phosphor for LED applications
12:25 pm	Adhya K.M., Anu Radhakrishnan, Bhuvaneshwary M.G., Gayathri T.H.	MS 284	Phytochemical screening of <i>Vitex Negundo</i> leaf extracts and its role in green synthesis and antimicrobial properties of silver nanoparticle
12:35 pm	Avaneesh U. Vasishta, BinoyBiju, Sudha Kamath M.K., Manjunatha C.	MS 285	Design of Electronic-ink based IoT Message Board
12:45 pm	Devi Chandra R, K.G. Gopchandran	MS 286	Tuning the defect density in zinc oxide nanoparticles using cobalt doping
12:55 pm	Naman	MS 291	Review on Bottom-up and Top-down Nanofabrication techniques
01:05 pm	Avinash Rokade, Yogesh Jadhav, S.D. Sartale, S.R. Jadkar	MS 292	Synthesis and Characterization of PVA-KOH Based Polymer Gel Electrolyte for solid state supercapacitor application
01:15 pm	Aiswarya Mohan, Lekshmi Chandran, K.G. Gopchandran	MS 294	In situ analysis of Rayleigh instability in ultrathin gold nanowires
01:25 pm	Swati Rahane, Avinash Rokade, Yogesh Jadhav, Sachin Rondiya, S.D. Sartale, S.R. Jadkar	MS 295	Fabrication of NiO Nanostructures as a Cathode Materials for High Performance Asymmetrical Supercapacitors
01:35 pm	Sadhana Yadav, Akhilesh Kumar Singh	MS 297	Crystal structure refinement of SmCuO _{3-δ} ceramic
01:45 pm	Keshav Kumar, Chandana Rath	MS 298	In-situ growth of CuO-ZnO nanocomposite for enhancement of the photocatalytic dye degradation
01:55 pm	Som Abhisek Mohantya, Mihir Paula, Debarun Dhar Purkayastha	MS 302	A Facile Modification of Copper Mesh for Oil-Water Separation

02:05 pm	Sagar R. Sangani, Rakesh Kumar Ameta	MS 307	Microwave assisted synthesis of novel Cu-benzoxazine complex and their biological evaluation
02:15 pm	Dibyaranjan Samal, Meesala Krishna Murthy, Pratima Khandayatray	MS 308	Synthetic Biology: A Scientific Review of Current Developments and Future Perspectives
02:25 pm	Mukesh Kawad, Rakesh Kumar Ameta	MS 309	2- Propylimidazole-4,5-dicarboxylic Acid based Cu/ Co/ Ce/ Fe/ Ni complexes: Synthesis, characterization and their catalytic kinetic study
02:35 pm	Ankit Kumar, Indu Gupta	MS 310	Review on photo catalytic materials in water splitting : For hydrogen production
02:45 pm	Y. Earnest Paul, G. Balaji	MS 311	Influence of aluminium oxide nano particle on the performance and emission of diesel engine fuelled with distilled tyre pyrolysis oil
02:55 pm	Roshan S. Thomas, Shristi Chaudhary, Gagan Anand, Shilpi Jindal	MS 312	Role of doping transition metal on the Structural and Magnetic properties of antiferroelectric NaNbO_3
03:05 pm	BREAK		
03:15 pm	Mini Yadav, Renu Bala, Mamta Rani, Ajay Shankar, Sandeep Yadav	MS 323	Fabrication and design of neutral density filter based on alloy in visible range
03:25 pm	Shivraj Singh, Neha Jain, Sidharth Sirohi, Akshita, Manjeet Singh Goyat, Tejendra K. Gupta	MS 325	Enhanced mechanical properties of functionalized MWCNTs/TPU nanocomposite films
03:35 pm	Anupama Sahu, Abhishek Kumar, Partha Saha, Sudipta Sen, Subash Chandra Mishra	MS 327	Effect of Potassium carbonate chemical derived activated carbon on Lithium-ion battery anode performance
03:45 pm	Annamalai Selvam, Ashish, A. Ajila, D. Delinta, S. John Mary, V. Sri Bharathi, S. Muthukumaran	MS 328	Electrochemical Activities of Ni-Ti Super-elastic in artificial blood plasma with Trigonella foenum graecum seeds
03:55 pm	Deepak Saini, Neetu Ahlawat, Pooja, Deepa, Aarti, Kanika Rani	MS 329	Microstructure investigation and FTIR spectroscopy of Calcium Copper Titanate ceramics
04:05 pm	Pooja, Neetu Ahlawat, Deepa, Deepak Saini, Aarti, Kanika Rani	MS 330	Synthesis and investigation of crystal structure of NBT-based Aurivillius type ceramics
04:15 pm	Seeza, Rohit Verma, Tejendra Kumar Gupta	MS 331	Synthesis of Optically Stimulated Luminescent (OSL) Materials: Recent Advances for Dosimetry Applications
04:25 pm	Surender, Chandra Mohan, Rakesh Kumar	MS 338	Novel modification of Activated Charcoal sheet with N-Methylpolypyrrole and Silver Nanoparticles for removal of Hexavalent Chromium in water treatment processes
04:35 pm	K.C. Handique, P.K. Kalita	MS 342	Optoelectronic properties of Chemically synthesized CdSe/ZnSe quasi type-II core-shell quantum dots
04:45 pm	Anushka Tyagi, Shristi Chaudhary, Gagan Anand, Shilpi Jindal	MS 344	Transition metal Doped BaTiO_3 Ceramics: Structural, optical and Magnetic Properties for Sensor based Applications