

2023 Fifth IEEE International Conference on
Materials Science and Manufacturing Technology (ICMSMT 2023)

13 - 14, APRIL 2023 | Coimbatore, India | <http://icmsmt.com/>

Program Schedule

Date	Time	Event
13.04.2023	10.00 am to 10.30 am	Inaugural Function
13.04.2023	10.30 am	Keynote 1
13.04.2023	11.10 am to 05.15 pm	Session: ICMSMT(PHYSICAL)
		Session: CH01(Online)
		Session: ACHME02(online)
		Session: PH01(online)
		Session: PH02 (online)
		Session: ME01 (online)
		Session: ME02 (online)
14.04.2023	10.30 am to 04.30 pm	Session: EECE01(online)
		Session: CE01(Online)
		Session: EC01(Online)
		Session: PH03(online)
		Session: ME03(online)

EC - Electronics & Computer Engineering;
 PH - Applied Physics
 CE - Civil Engineering
 ME - Mechanical Engineering
 EECE - Electrical Engg. & Chemical Engineering
 CH - Applied Chemistry
 ACHME - Applied Chemistry & Materials Engineering

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 powerpoint presentation (ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes (Queries)
6. Participant using Google Meet SHOULD join the session at least 45 minutes 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 chairs for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) ICMSMT Whatsapp group during presentation date(s).

Session: ICMSMT(PHY01) - OFFLINE

Date: 13.04.2023

Time: 11.15 am to 03.15 pm

Venue: Seminar Hall-1, Main Block

Time	Paper ID	Paper Title	Author(s)
11.15 am	MS 7268	Structure, microstructure and dielectric properties of Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ lead-free ceramic	Rahul Kumar Singh, Sumit K. Roy, Mrityunjay Kumar
11.35 am	MS 7340	The DFT study of thermoelectric properties of CuInS ₂ : A first principle approach	Ranjan Kr. Giri, Mitesh B. Solanki, Sunil H. Chaki, Milind P. Deshpande
11.55 am	MS 7372	Effect of milling on dielectric properties of PZT	Shyamanand Pandey, Swarat Chaudhuri, Rahul K. Singh, Sumit K. Roy
12.15 pm	MS 7376	DFT study of Hydrogen storage capacity on Hf doped graphene	Ravindra Karde, Baliram Lone
12.35 pm	MS 7409	Validation of a Harmonic Acoustic Model for Duct-borne Noise & Vibration onboard Maritime Vessels	Atharva Nagarkar, Rajesh Chaudhari, A Das
02.15 pm	MS 7419	A Disposable Electrochemical Sensor based on Poly-5-Amino-1-Naphthol Modified Electrode for the Quantification of Tyramine	Gopika M G, Aiswarya Raj R, Surya Gopidas, Gokul S Jayan, Arathy P S, Beena Saraswathyamma
02.35 pm	MS 7123	Hardness and microstructure analysis of rotary friction welded dissimilar joint of Cu and Ti-6Al-4V	Rajesh Chaudharia Om Pardeshia* Disha Chandaka* Tanya Barawkara* Harshvardhan Ovhalb Gopal Dhanpalwara*
02.55 pm	MS 7375	Dielectric and Mechanical properties of PZT incorporated PVDF nanocomposites prepared by solution casting method	Sangeeta Lakra, S. K. Mukherjee, Sumit K. Roy, Mrityunjay Kumar
03.15 pm	MS 7088	Studies on PbS Thin Film prepared by Chemical bath deposition method – a suitable candidate material for Photovoltaic Cell	R.Sangeetha, Nirmala, R Sumathi & K Mohanasudha

Session: CH01 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 04.40 pm

Session Chair : Prof. C. Nirmala HoD / S&H

Session Link : <https://meet.google.com/vos-ixny-zcn>Session Whatsapp group link: <https://chat.whatsapp.com/KGi58mzb7Dm8HxHHUmiNbs>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7009	Current Progress on Anode Materials for Na-ion Batteries: Review	<i>D Saritha, CH Sandeep</i>
11.30 am	MS 7012	First Principle Study of Lithium Halides LiX (X= H, I)	<i>Shilpa Kapoor, Namrata Yaduvanshi, Meena Choure Sadhna Singh</i>
11.50 am	MS 7092	Optimization of pectin extraction conditions from pomelo (<i>Citrusgrandis</i> (L.) Osbeck) peel by response surface method	<i>Nguyen Hong Khoi Nguyen, Bach Long Giang, Tran Thanh Truc</i>
12.10 pm	MS 7094	Surface chemistry analysis of acidified and nickel impregnated carbon for desulfurization of fuels	<i>T S Bhattacharjee, S Ghadge, R Khilari, T N Ingole, G S Janrao, P S Godage, S PGole and M M Hussian</i>
12.30 pm	MS 7117	Anti-corrosive Response of Commercial Water Repellents to Reinforced Mild Steel in Concrete Slab	<i>Akash Roka, Madhab Gautam, Ajaya Giri, Nootan Prasad Bhattarai*, Jagadeesh Bhattarai*</i>
02.00 pm	MS 7126	Antibacterial Activity of Green Synthesized Silver Nanoparticle using Banana Flower Extract	<i>Kajal Francis, S Achutha, Barakala Pushpa, K Ramya</i>
02.20 pm	MS 7128	An Approach for Grading of Soil Corrosiveness: A Case Study in Vicinity of Ring Road-Kathmandu	<i>Kumar Prasad Dahal, Nootan Prasad Bhattarai, Jagadeesh Bhattarai</i>
02.40 pm	MS 7156	Preparation and characterisation of nickel oxide and nickel oxide codoped with magnesium and zinc	<i>Erin Ann Sunny, Nahan Nazar, Bhagyalakshmi M, Sooryanarayanan S, A. Chithra Mohan, Jomol Mariyam Thomas, Varsha</i>

03.00 pm	MS 7224	Antityrosinase Activity of Phycocyanin and Cream Formulation for Hyperpigmentation	<i>Aishwarya Raju Muruganandam, Sivasankari Venkatasubramanian, Shail Adrian Jagmag, Veerabhuvaneshwari Veerichetty</i>
03.20 pm	MS 7227	Synthesis of Iron-carbon (Fe ₀ -C) nanocomposite and its use for the removal of Rhodamine-B and Hexavalent Chromium from Aqueous Solutions.	<i>Wedad Masoud, Sourjya Bhattacharjee, Abdallah Shanableh</i>
03.40 pm	MS 7231	The synthesis and characterization of demulsifying polyvinylideneFluoride (PVDF) Disc	<i>Fida Ullah, Mehtab Ur Rehman Sahir, Ali Bahader , Haseeb Ullah, AbdulHafeez, Alamgir Khan, Amir Ali Khan, Muhmmad Murtaza, Yasar Ali, Fazal dayan, Kamran Khan, Naseer Ullah</i>
04.00 pm	MS 7250	Selected Schiff base Synthesis and their Applications	<i>Barakala Pushpa, Fathima Ismail, Anusree A Pai, Kumari Nisha S</i>
04.20 pm	MS 7336	Magnetic, morphological, and photocatalytic studies of Cu ²⁺ doped Mg-Zn ferrite nanoparticles	<i>Sangita N Pund, Pratik A Nagwade, Arvind V Nagawade, Shankar R Thopate, Arun V Bagade</i>
04.40 pm	MS 7361	Synthesis, Characterization and Phosphate Adsorption Studies of Nano Mesoporous Lanthana	<i>Marymol Moothedan and K.B. Sherly</i>

Session: ACHME02 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 04.40 pm

Session Chair : Prof. V.Suresh Kumar AP/MECH

Session Link : <https://meet.google.com/mzo-vqga-vri>Session Whatsapp group link: <https://chat.whatsapp.com/BBDwYTMzxvV267qzOy4XFF>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7373	Influence of Copper Doping on Structural and Opto-Electronic Properties of Zinc Oxide Nanoparticles	Archana Kumari Singh, Khushi Singh, Satya Pal Singh
11.30 am	MS 7385	Aegle Marmelos as Corrosion Inhibitor for Brass Metal in Sulphuric acid Medium: Response Surface Methodology	<i>Bandela Sowjanya, A.Ajay Raj, Supriya Vykuntam, Akhil Arava, Venkata Rao Poiba, Pulipati King, Meena Vangalapati</i>
11.50 am	MS 8005	Extraction, Identification, and Phytochemical Analysis of the Leaves of the Methanolic Extract of Clerodendrum Infortunatum Linn	Rejithamol R*, Kaveri S J, Dhiya Pradeep, Aiswarya M S, Anjali S and Sneha S
12.10 pm	MS 7438	Experimental Investigation of Enhancing Biogas Production of Rice Straw by using Sodium Hydroxide as an Alkali Pretreatment	<i>Vaishnavi S. Miskin, Ganesh A. Hinge</i>
12.30 pm	MS 7001	Role of Computed Tomography (CT) in the Surface Characterisation and Internal Defects Assessment of 3D Printed Materials	<i>Srinath. M. K</i>
02.00 pm	MS 7052	Effect of Austempering Parameters on Microstructure and Tensile/Impact Behaviours of Micro-Alloyed TRIP-Assisted Steel	<i>Vadym Zurnadzhy; Vasily Efremenko; Hossam Halfa; Bohdan Efremenko; Alexander Azarkhov; Yuliia Chabak; Natalia Zaichuk</i>
02.20 pm	MS 7157	Fatigue crack propagation in 5754 aluminum alloy under four-point bending	<i>Mamookho Elizabeth Makhatha, Pawan Kumar, D A Baruwa and R S Nemaguvhuni</i>

02.40 pm	MS 7184	Fractographical characterization of Jute fibre reinforced paper composite subjected to drop test	<i>M E Makhatha, Pawan Kumar and Z K Masubelele</i>
03.00 pm	MS 7191	Organic-inorganic perovskite structure-based (OIPSB) solar cells: A progress from invention	<i>Mehtab Ur Rehman and Wang Qun</i>
03.20 pm	MS 7345	Influence of Ca and Ce additions on microstructure and microhardness of squeeze cast AZ91 Mg alloy	<i>Namrata Sarania, Ankush S. Marodkar and Hemant Borkar</i>
03.40 pm	MS 7349	Comparative analysis of MgB ₂ superconducting wire for various cooling treatments through a sintering process	<i>Satrio Herbirowo, Andika Widya Pramono, Nofrijon Sofyan, Akhmad Herman Yuwono, Agung Imaduddin</i>
04.00 pm	MS 7358	Analytical Solution for Fractional Order Temperature Distribution in Two Dimensional Multilayer Composite Circular Discs	<i>N.J. Wange M.N. Dandale, Vinod Waikar</i>
04.20 pm	MS 7391	The Effect of Hydrothermal Temperature and Sample Thickness on The Synthesis of BaFe ₁₂ O ₁₉ @MnO ₂ Core-Shell Composites	<i>Erlina Yustanti, Alfian Noviyanto, Muhammad Ikramullah, Yogie Anes Marsillam and Maulana Randa</i>
04.40 pm	MS 7193	Effect of Aggregate Proportion and Skeleton on the Strength of Porous Asphalt Mix	<i>Chiranjeevi Gummadi and Shankar Sabavath</i>

Session: PH01 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 05.00 pm

Session Chair : Prof. R. Sangeetha, AP/MECH

Session Link : <https://meet.google.com/uof-ethx-icy>Session Whatsapp group link: <https://chat.whatsapp.com/CIYEzMIR3HIJs3Jtc4S5l>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7025	Physical experiments and DEM simulations for erosion of iron target by two impingements of Al ₂ O ₃ particle with impingement angles of double 90°	<i>Ziqiang Fang, Songlin Peng</i>
11.30 am	MS 7041	Characterization of pure and malachite green doped polyvinylidene fluoride sample using UV spectroscopic technique.	<i>Girja Ahirwar, Pooja Devi Sahu, P K Khare and R K Dubey</i>
11.50 am	MS 7050	Induced Wigner crystallization in a coupled electron-hole quantum wire system at finite-temperature	<i>Preeti Rani, Kulveer Kaur and Vinayak Garg</i>
12.10 pm	MS 7084	AC Susceptibility and Superconducting Properties of Te-Substituted TlSr ₂ Ca(Cu _{2-x} Tex)O ₇	<i>A.B. P. Ilhamsyah, R. Abd-Shukor, M.Y. Norazimah, Syahrul Humaidi, A. Shanthi and A. N. Jannah*</i>
12.30 pm	MS 7139	Design of a Single Layer Single Band 5G FSS as Shielding Materials	<i>Esther Florence, Samuel Robinson R, Vimal Samsingh R, Sakthi Abirami</i>
02.00 pm	MS 7150	Bulk Metallic Glass Al ₂ Ca from a Biomedical Viewpoint: A Molecular Dynamics Study	<i>A. Shankar and N. K. Bhatt</i>
02.20 pm	MS 7155	Optical characterization of semiconducting thin films using UV-VIS-NIR spectroscopy	<i>S.D. Dhruv, Pankaj Solanki, Mayur Vala, I.T. Thakkar, Bharat Kataa, D.K. Dhruv</i>
02.40 pm	MS 7158	Structural, Morphological and dielectric properties of Gd ³⁺ modified LaPO ₄ ceramicsties of Gd ³⁺ modified ties of	<i>Kanchan Khanna, Akshay Kumar, Tiku Ram, Sunil Dewadi, Sunil Kumar</i>

03.00 pm	MS 7164	Melting process of the two-dimensional material BN: Insights from molecular dynamics simulations	<i>Mai Van Dung, and Tran Thanh Dung</i>
03.20 pm	MS 7194	Physical and Optical Properties of Lead-Tungsten-Tellurite Glasses	<i>Ghizal F. Ansari, Sunil Patidar, Rajiv Pandey, Rajiv Kumar</i>
03.40 pm	MS 7195	Physical and Luminescence Properties of Europium Ions Doped Barium Tellurite Glass	<i>Shabnam Qureshi, Purvee Bhardwaj, Ghizal F. Ansari</i>
04.00 pm	MS 7198	Topical approaches in the synthesis of quinoxaline derivatives and its applications	<i>Barakala Pushpa, Khadheeja Shereef and Dharsana Mohanan, K Ramya</i>
04.20 pm	MS 7382	The role of machine learning in the field of polymer tribology- A review	<i>Gaurang Patel, Vijaykumar Chaudhary</i>
04.40 pm	MS 7356	Investigating the effect of Manufactured sand and Silica Fume on the properties of Concrete	<i>Nandigam Bhargav Chowdary, Akshat Mahajan, Sahil Jaggi</i>

Session: PH02 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 04.20 pm

Session Chair : Prof. A. Senthilkumar ASP / EEE

Session Link : <https://meet.google.com/eqh-onsr-jru>Session Whatsapp group link: <https://chat.whatsapp.com/HghTHoGUWTb2m5kCoK8bGp>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7229	The Fragility of Glassy Corn Starches	<i>Vaibhavi H Mistry, Niravkumar D Patel, Lilly Shanker Rao T, Shanker Rao T</i>
11.30 am	MS 7230	Synthesis and characterization of graphene via electrochemical exfoliation technique and study its electrochemical properties	<i>S.R.Kumar and Kumar Anurag</i>
11.50 am	MS 7247	A Study on The Inclusion of Higher Dopant Proportion on ZrO ₂ thin film deposited by spray pyrolysis method	<i>M. Jothibas, B.Arunkumar, T.Meganathan, P.Arivazhagan, P.Arunkumar</i>
12.10 pm	MS 7248	Evolution of structure and dynamic of simulated CdTe model according to the melting process	<i>Tran Thanh Dung, Mai Van Dung</i>
12.30 pm	MS 7253	Electrodeposited CZTS loaded titania nanotubes for photocatalytic water splitting	<i>Athulya Jayakumar, Dr. Ambily Krishnan</i>
02.00 pm	MS 7309	Impedance Spectroscopy Analysis of (1-x)Ba _{0.06} (Na _{1/2} Bi _{1/2}) _{0.94} TiO ₃ -xNaTaO ₃ Ceramics	<i>Santosh Rajwar, Sushil K. Pandey, Sumit K. Roy</i>
02.20 pm	MS 7316	Fragility and Modified Gibbs-DiMarzio relation verification in Chalcogenide materials	<i>Niravkumar D Patel, Vaibhavi H Mistry, Lilly Shanker Rao T, Shanker Rao T</i>
02.40 pm	MS 7320	Degradation of Organic pollutant by Green Tea Iron Nanoparticle's	<i>Gurdev preet Singh, Jasvir Singh, Rishita, Khiyati Saini, Kanika Chandel, Jasmeet Kaur , K.J. Singh</i>

03.00 pm	MS 7324	Optical Conductivity Analysis of Green CuO Nanoparticles Using Plant Leaf Extract	<i>B Arunkumar, R Meenakshi, S Thamarai selvi, N Raja, T Meganathan</i>
03.20 pm	MS 7327	Design and synthesis of silver bio-nanocomposite for photocatalytic applications	<i>Ramya M, Jyothika V G, Rajita Ramanarayanan</i>
03.40 pm	MS 7329	Modification in Magnetic Properties of CoFe ₂ O ₄ Ferrite Nanoparticles Induced by 100MeV O ⁺ 7 Ion Irradiation	<i>Grish Chandra, R C Srivastava and V R Reddy</i>
04.00 pm	MS 7359	Electro-thermal peltier cooling system for engine Lifetime improvement	<i>Selvakumar, Bilu P John, Sasikumar N, Sangeethkumar E, Ramanathan V, Nivas Reddy M, Yugandhar I</i>
04.20 pm	MS 7112	Effect of Material Parameters on the Statics and Dynamics Of Micro-Cantilever Under Electro-Static Actuation	<i>Sonal J. Bhojani *, Reena Trivedi, Dharmendra S. Sharma</i>
04.40 pm	MS 7130	Kinetics of Essential Oil Extraction of Kaffir Lime Peel Using Microwave Assisted Hydrodistillation	<i>Megawati, Bayu Triwibowo, Zuhriyan Ash Siddhiqie Bahlawan, Pradipta Aji Sadewa and Yuni Dwi Parastuti</i>

Session: ME01 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 05.30 pm

Session Chair : Prof. A.Karthik AP/MCT

Session Link : <https://meet.google.com/ptj-tvbs-qjs>Session Whatsapp group link: <https://chat.whatsapp.com/CgMyS0VUGKyF84ZGccl82B>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7020	Process parameter optimization of aerospace-grade dissimilar aluminium alloy 7075 and 2014 by friction stir welding	<i>Dr. K.Sekar * and P.Vasanthakumar</i>
11.30 am	MS 7021	Effect of Plant Oil Derived Bio-Resin and Curing Temperature on Static and Dynamic Mechanical Properties of Epoxy Network	<i>Dr. K.Sekar * and Sathyaraj Sankar lal</i>
11.50 am	MS 7083	Development of Manufacturing Process for High-Chromium Steel Large Welding Roll	<i>Volodymyr Kukhar, Oleg Vasylevskyi , Khrystyna Malii, Vadym Zurnadzhy , Bohdan Efremenko , and Ivan Sili</i>
12.10 pm	MS 7087	An Experimental Investigation of Surface Quality in Single Point Incremental Forming of Cu-Al Composite Sheets	<i>Ankitkumar C Pambhar, Janak B Valaki</i>
12.30 pm	MS 7090	Influence of Core Topology on Response of Metallic Sandwich Panel under Blast Loading	<i>Nikhil Ghate and Manmohan Dass Goel</i>
02.00 pm	MS 7103	An FEM-ANN based analysis of Cutting force and Cutting tool deflection to predict tool wear in double tool turning process.	<i>Nikhil V. Khatekar, Kalidasan R., Raju S. Pawade</i>
02.20 pm	MS 7113	Molybdenum Powder Coating on Steel Substrate to Study Threebody Wear Resistance	<i>Darshan Umashankar, Suhas R D, Deekshith J Nayaka, Thakshak D S, Shivakumar R Hiremath</i>
02.40 pm	MS 7124	Case Study of Ather 450x electric two-wheeler, TVS IQUBE two-wheeler, Okinawa OKHI 90 electric two- wheeler & Bajaj Chetak two-wheeler	<i>Harsha Mamdya, Vaishnavi Mane, Pratham Matal, Muthu Krishnan, Pranav Nagane, Shivani</i>

03.00 pm	MS 7131	Experimental Investigation of Friction Stir Welding on Al 2024-T3 and Al 7075-T6 Alloy	<i>Gaurav Mishra, Ankita Mistri, Rajarshi Kumar Tarafdar, Shakti Kumar, Somnath Chattopadhyaya</i>
03.20 pm	MS 7142	Cooling channel selection for big rectangular plastic parts in injection molding	<i>M S M Adzhar, M N Harun and A P M Saad</i>
03.40 pm	MS 7143	A review on the Investigation of Hydrocyclone Performance by shape optimization	<i>A Vimal, S Thalaieswaran, N Hari Kannan, P Ganeshan, S Venkatesh</i>
04.00 pm	MS 7389	Assessment of Water Quality and Identification of Pollution in Cauvery River	<i>Mr. M.Vigneshwaran, Mrs. V.Mohanalakshmi, Mrs. B.Sudha Priya, Mr. A.Sasikumar</i>
04.20 pm	MS 7452	Experimental Analysis of High-Strength Concrete Using Granite Aggregates	<i>Banda Lakshmi Sai Karthik*, Akshat mahajan and Sahil Jaggi</i>
04.40 pm	MS 7403	Comparison of Texturing on Different Materials using Nanosecond Pulsed LASER Machine	<i>*Arya Sapre, Vivek Sanap, Sanket Lavalekar, Soham Sathe, Sarja Daware</i>
05.00 pm	MS 8012	Data evaluation of the protection performance of maize husk particulate reinforcements on 1170 aluminium alloy corrosion in dilute electrolytes	<i>Roland Tolulope Loto and Williams Joseph Ajuwaeze</i>
05.20 pm	MS 7082	Performance analysis of the protection effect cow bone and coconut shell particulates on 1170 aluminium alloy in dilute electrolytes	<i>Roland Tolulope Loto,, Ademola Ogunleye, Adeniyi Oladipupo, Sonia Ofordum and Abisola Ale</i>

Session: ME02 - ONLINE

Date: 13.04.2023

Time: 11.10 am to 05.00 pm

Session Chair : Prof. P. Sathish AP / MECH

Session Link : <https://meet.google.com/mjn-yqyc-rzx>Session Whatsapp group link: <https://chat.whatsapp.com/HAODvLXXCJ1AFSsgUrHtfR>

Time	Paper ID	Paper Title	Author(s)
11.10 am	MS 7144	Mathematical model of material removal rate during milling of AISI D2 tool steel using response surface methodology	<i>Ravikumar D Patel, Shailesh Patel</i>
11.30 am	MS 7196	A Novel Approach of Heat Assisted Parallel Turning Machining Process	<i>Achman Mishra, Kalidasan Rathinam, Ravindra Nath Yadav</i>
11.50 am	MS 7202	Case study of electrical, structural and optical properties of CdSe Quantum Dots using DFT based computational tools.	<i>Abyaz Abid</i>
12.10 pm	MS 7225	Experimental investigation of spif process for conical frustum	<i>Hiteshkumar Patel, Kapil Surani</i>
12.30 pm	MS 7256	Neural network approach on effect of Ceramics on Dry Sliding Wear Behaviour of Al-Cu-Zr Metal Matrix Composite at Various composition	<i>V.Pandiaraj, C.M.Vivek, R.Thiyagarajan, M.Iyyappan, M.Bharath, G.Kaviyaran</i>
02.00 pm	MS 7257	Development of a Neural Network Model and Taguchi-Based Optimization for Dry Sliding Wear Performance of Al 6065 Alloy	
02.20 pm	MS 7266	Numerical Modeling of Critical Velocity and Deformation Behavior in Cold Spray Using Lagrangian and Arbitrary Lagrangian Technique	<i>Manik A. Patil, Nirupan R, Biswajit Das</i>
02.40 pm	MS 7297	Impact of materials on performance of Vine Robot	<i>Archit Borkar, Shubham Bene, Mahesha Gonal, B.S. Manohar Shankar</i>

03.00 pm	MS 7312	Evaluation of Machinability performance MRR and SR of AA7050-7.5% B4C-T6 Composite through EDM	<i>Arvind Kumar, Abhishek Kumar, Jai Prakash, Ranbeer Kumar</i>
03.20 pm	MS 7362	Effect of water retting on the physical and mechanical properties of extracted pine needle fibers	<i>Rajesh Kumar, Pawan Kumar Rakesh, Dungali Sreehari</i>
03.40 pm	MS 7366	Design, Calculation and Optimization of the Anti-Ackermann Steering System	<i>Jasvinder Singh, Pawar Jivan Vasant, Ibrar Khan, Thandra Ashish Nanda, Pasala Anil Kumar Naidu</i>
04.00 pm	MS 7408	Estimation of planar and normal anisotropy parameters of as cold rolled and cold rolled with annealed Al 8011 sheets	<i>Rajesh Chaudhari, Ojas Joshi, Neeraj Dargad, Ayush jain, Jaideep Gaikwad</i>
04.00 pm	MS 7121	Sustainable design of lower limb exoskeleton	<i>Sidharth Satish, Dr. Arunkumar S, Nikhila Varma J K, Tejaswi Kalimisetty, Nirmal Vinod, Gokul Krishnan</i>
04.20 pm	MS 7351	An Innovative Study on Utilisation of Pareva Dust and Quartz Sand in Concrete	<i>Sneha Mathew, Hemant Kumar Sain</i>
04.40 pm	MS 7415	Performance of Strength and Moduli Characteristics of Ceramic Waste Aggregate Concrete (CWAC)	<i>Valikala Giridhar, Mahankali Sreenath</i>

Session: EECE01 - ONLINE

Date: 14.04.2023

Time: 10.30 am to 04.00 pm

Session Chair : Prof. A. Senthilkumar

Session Link : <https://meet.google.com/eqh-onsr-jru>Session Whatsapp link: <https://chat.whatsapp.com/GloZQGNDd2HHuo3Tz0btDU>

Time	Paper ID	Paper Title	Author(s)
10.30 am	MS 7055	Design of Insulation for Furnace Column – Safety & Energy Conservation	<i>Karthik Silaipillayarputhur</i>
10.50 am	MS 7240	Design and Implementation of Hybrid Energy Storage System Integrating Lithium-ion Battery and Wind Turbine	<i>S.Harippriya, S.Jayanthy, E.Esakki Vigneswaran</i>
11.10 am	MS 7262	Grid-Connected Converters Active Power Flow Control under Unbalanced Conditions by Fuzzy Technique	<i>P.Sruthi , S.Hussain Vali , Vempalle Rafi , R Kiranmayi</i>
11.30 am	MS 7263	THD Reduction in a Grid-Connected Solar PV System with a Multilevel Inverter and MPPT Controlled by ANN Controller	<i>G.Karimulla, S.Hussain Vali, Vempalle Rafi, R Kiranmayi</i>
11.50 am	MS 7273	Multi-Level Inverter Fed BLDC Motor Drive Irrigation Pump Application Using Peak Current Detection Method	<i>K V Siva Kalyan, S.Hussain Vali , Vempalle Rafi</i>
12.10 pm	MS 7365	PLC-based Automated Aqua-Hydroponics System	<i>Selvalakshmi, Bharath Singh J, Priyadharshini S, Sushmitha S</i>
12.30 pm	MS 7377	A Performance Enhancement of Motor Characteristics for Electric Vehicle Storage System Using Hybrid RWVO-ICSO Scheme	<i>C.Infant Vinoth and Dr.C.S.Ravichandran</i>

02.00 pm	MS 7414	Design and Analysis of Multilevel Inverter for Electric Vehicle by using the ANN	<i>K Vidhya Sagar, G V Nagesh Kumar, Vempalle Rafi</i>
02.20 pm	MS 7434	Loss Minimization by Reorganization in Distribution Network Using PSO Algorithm	<i>Yangamsetty Bhaskar Kumar, G V Nagesh Kumar, Vempalle Rafi</i>
02.40 pm	MS 7228	Effect of acids and alkaline pretreatment of used tea waste powder under microwave assisted pretreatment	<i>Husam Talib Hamzah, Nabil Majd Alawi, Hikmat Mohammed Hasan, Hayder Yousif Abed, Sridevi Veluru, Noor Abdulqader Hamdullah, Abdullahi Abdu Ibrahim, M. Tukarambai, Venkata Rao Poiba, R. Srikanth</i>
03.00 pm	MS 7254	Review on Citric Acid Production from Molasses By using Aspergillus Niger	<i>Amruta Amrutkar, Devyani Jadhav, Tejashree Jadhav, Shubham Patil, Anushka Vairal, Amruta Mokashi</i>
03.20 pm	MS 7275	Organic pesticide from non-conventional natural resources	<i>Tanushree Bhattacharjee, Aniket Kotame, Aryan Mahajan, Ajinkya Ghorpade, Amruni Kothadia, Adnan Mohammadi, Akanksha Bhandarkar</i>
03.40 pm	MS 7446	Biopesticide Manufacturing from Custard Apple Seeds - A Comprehensive Approach	<i>Tanushree Bhattacharjee, Aditi Gadre, Krutika Khetade, Pradnya Kolsundkar, Shreeja Gawande, Swarada Kulkarni</i>

Session: CE01 - ONLINE

Date: 14.04.2023

Time: 10.30 am to 04.20 pm

Session Chair : Prof. O. Sathish

Session Link : <https://meet.google.com/iad-ojhg-vtt>Session Whatsapp link: <https://chat.whatsapp.com/JZf5eeTGWIDCM0ZuNDkQ5o>

Time	Paper ID	Paper Title	Author(s)
10.30 am	MS 7030	Experimental studies on self-compacting alkali Activated slag concrete mixes incorporating reclaimed asphalt pavement as fine aggregate	<i>Aryamol Joy, Manjunath R, Neha S N, M H Prashanth</i>
10.50 am	MS 7031	Effect of elevated temperature on rice husk ash based self-compacting alkali activated slag concrete mixes under different cooling regimes	<i>Lekhan H N, Manjunath R, Neha S N and M H Prashanth</i>
11.10 am	MS 7037	Experimental Studies on Bagasse Ash-Based Self-Compacting Alkali Activated Slag Concrete	<i>Nidhi K, Manjunath R, Pruthvi Raj S, Prashanth M.H</i>
11.30 am	MS 7038	Bond strength characteristics of alkali activated slag concrete mixes incorporating slag sand as fine aggregates	<i>Sachin Kumar D, Manjunath R, M H Prashanth, Abhish M.S</i>
11.50 am	MS 7051	Particular strength criteria for microstructural analysis of masonry	<i>David Cajamarca-Zuniga, Oleg Kabantsev</i>
12.10 pm	MS 7059	A Critical Review on the Application of Carbon Neutral Materials and Sustainable Design to make Highways Green – An Indian Prospective	<i>Ashwini Nair, Vinay Patani, Dr. Niragi dave</i>
12.30 pm	MS 7105	Tangential adhesive strength of the masonry with PET-fibres modified mortar	<i>David Cajamarca-Zuniga, Carlos Cordero, Daniel Campos, Carlos Julio Calle, Diana Andrade, Wilmer Morocho</i>

02.00 pm	MS 7298	Characterization of Developed Agro-based Adsorbents: A Study	<i>Rajesh Bhagat and Shantanu Khandeshwar</i>
02.20 pm	MS 7360	Strength Characteristics of Flyash and GGBS-based Geopolymer Concrete blended with Hybrid Fibers	<i>Pathi Janardhan, R Venkata Krishnaiah</i>
02.40 pm	MS 7394	Activated Carbon from Rice Husk: Optimization Characterization	<i>Brahamdeo Kumar Yadav and Amit Kumar</i>
03.00 pm	MS 7399	Experimental Studies on Concrete using the Partial Replacement of Cement by Red Mud	<i>Goutham Priya M, Sudharsan E, Thamizharasan K</i>
03.20 pm	MS 7413	Resilient modulus of subgrade using Light Weight Deflectometer in Vietnam	<i>Thanh-Tung Pham, Thanh-Quang Bui, Chau-Lan Nguyen and Xuan-Cay Bui</i>
03.40 pm	MS 7423	Study on the Manufacturing of Composite Materials made from Glass Fiber Reinforced Polymer (GFRP) in Indonesia for use as Lining in Open Channels	<i>Suryadarma Hasyim, Nasaruddin Salam, Muhammad Saleh Pallu and Farouk Maricar</i>
04.00 pm	MS 7430	Stabilization of Clay Using Groundnut Shell Ash and Sugarcane Bagasse Ash	<i>Jeya Arthi A J, Aarthi G, Vimal Kumar V, Vishnupriya U</i>
04.20 pm	MS 7426	Assessment of Strength and Durability parameters of Geopolymer Concrete blocks with different sand replacement levels	<i>Vivek Kumar C, P Suresh Chandra Babu, M Sheik Mohamed Anas, V Naresh Kumar Varma and Chelpuri Hemalatha</i>

Session: EC01 - ONLINE

Date: 14.04.2023

Time: 10.30 am to 04.00 pm

Session Chair : Prof. K. Sivakumar

Session Link : <http://meet.google.com/ghj-qsao-kwb>Session Whatsapp link: <https://chat.whatsapp.com/KYNAQwf9n6093sUpiqGMrb>

Time	Paper ID	Paper Title	Author(s)
10.30 am	MS 7035	Smart Poultry Environment Monitoring and Controlling System	<i>Gayatri Jagnade, Khushi Lakhani, Kartik Shinde, Prathamesh Lagad, Pruthviraj Kadam</i>
10.50 am	MS 7045	A Single Plane Low profile Patch Antenna ĩ€- Shaped Slots and Low Side Lobe Level for Directive Wireless Communications	<i>Safa N. Nafea</i>
11.10 am	MS 7093	Smart Shoes for Blind Person	<i>Gayatri Jagnade, Krushna Dhavale, Krishna Gandal, Kunal Ghadge, Ketan Ganvir</i>
11.30 am	MS 7151	Design and Comparison of three Unconventional Shaped DRAs for 60GHz Application	<i>Reyya Sohit Rao, Rashmi Ranjan Sahu, Shashi Shankar Mohanty, Ribhu Abhusan Panda</i>
11.50 am	MS 7243	Modeling of stability margin for a triple connected wall climbing robot	<i>Florence Gnana Poovathy John, Sathish Easwaramoorthy, Nirmala Paramanandham, Sathyapriya Loganathan</i>
12.10 pm	MS 7301	Approximate Compressors with Balanced Error Accumulation in MAC	<i>Kalamani M, Kavyashree V</i>
12.30 pm	MS 7314	Design and Development of low-cost, flexible graphite based sensor for human finger movement	<i>M Kaviguru, T Pavithra, A Sobana, S M Naveena, G Anitha, V Suresh</i>

02.00 pm	MS 7317	Metamaterial Based Wearable Antenna with Low SAR	<i>Mehaboob Mujawar, Kaveri Basarakod, Aishwarya Kalal and Bhagyashree Goudar</i>
02.20 pm	MS 7330	Realization of a Low Power Loss Reversible N-Bit Arithmetic Circuit for ALU Applications on a Configurable Platform	<i>Varun S, Chiranjeevi G N, Bharath Sai, Aneel Kumar</i>
02.40 pm	MS 7332	Investigations on the physical, Morphological and photosensitive properties of precursor stabilized V ₂ O ₅ thin films	<i>Niju Rajan, D V Manjunatha</i>
03.00 pm	MS 7432	Wafer Defect Identification with Optimal Hyper-Parameter Tuning of Support Vector Machine using the Deep Feature of ResNet 101	<i>Shishir Prasad Dash, J. Ramadevi, Rajat Amat, Prabira Kumar Sethy, Santi Kumari Behera, Sunil Mallick</i>
03.20 pm	MS 7433	Microstrip patch antenna design using mathematically modeled metamaterial cell	<i>P.R. Satarkar, R.B. Lohani</i>
03.40 pm	MS 7428	Prediction of Concrete Constituents' Behavior Using IoT	
04.00 pm	OP 8208	IOT Based solar Powered water saving cooler system using Arduino	<i>Vishakha Kohale, Shital Buran, Ujwala V Waghmare</i>
04.20 pm	MS 7458	Performance enhancement of R600A vapour Compression refrigeration system using AL ₂ O ₃ /TiO ₂ hybrid nano lubricants	<i>Prasanna Venkatesh, Jotheeswaran S, M. Purusothaman</i>

Session: PH03 - ONLINE

Date: 14.04.2023

Time: 10.30 am to 04.20 pm

Session Chair : Dr. Ramya Muthusamy

Session Link : <https://meet.google.com/dva-kftq-zzq>Session Whatsapp link: <https://chat.whatsapp.com/JomxAsJ3ySfAWE8WOQ58qU>

Time	Paper ID	Paper Title	Author(s)
10.30 am	MS 7338	Effect of annealing on the physical properties of LaFeO ₃ Perovskite nanomaterial prepared by co-deposition method for H ₂ generation	<i>Neelima A. Patil, Yogita S. Patil, G. L. Agawane, Manisha Kulthe, J.W. Dadge, Ashish Yengantiwar, A. V. Deshmukh</i>
10.50 am	MS 7368	Effect of Annealing Temperature variation on Al-doped Nickel Oxide Thin-film synthesized by Dip-coating technique	<i>S Anusha, M Narasimha Murthy and CJ Sreelatha</i>
11.10 am	MS 7333	Lanthanum doped ZnS thin films by Chemical Bath Deposition Technique for water splitting application	<i>Yogita S. Patil, Neelima A. Patil, G. L. Agawane, S.S. Mali, C.K. Hong</i>
11.30 am	MS 7384	Rare Earth Based Iron Garnet – A Survey on Its Magnetic Properties	<i>A. Priyanshu, M. Nath, A. Bandyopadhyay</i>
11.50 am	MS 7392	Physical and Electrical Properties of Sm ₂ O ₃ Doped Boro-Zinc-Vanadate Glasses	<i>Ashwini Devidas, T Sankarappa, Amarkumar Malge, Mohansingh Heerasingh, Raghavedra B, Jamadar Pallavi, Arvind Dyama</i>
12.10 pm	MS 7393	Dye-sensitized solar cell employing chitosan-based biopolymer electrolyte	<i>Simantini Majumdar, Archita Mondal, Ankita Mahajan, Swapan Kumar Bhattacharya and Ruma Ray</i>
12.30 pm	MS 7405	The comparison of peculiarity of corrosion behavior of TiNi alloys with martensitic and austenitic structures	<i>Anna Churakova, Elina Kayumova</i>

02.00 pm	MS 7406	Investigation of structural, morphological and luminescent features of Eu ³⁺ activated molybdate based phosphor for w-LED applications	<i>Pranjali Sharma, Muskan, M. Jayasimhadri</i>
02.20 pm	MS 7411	Study of the effect of multiple phase transformations and relaxation annealing on the microstructure of a martensitic TiNi alloy in different structural states	<i>Anna Churakova, Elina Kayumova, Elmira Iskhakova</i>
02.40 pm	MS 7445	Transport Properties of Conducting Polymer Polyaniline with CuO Nanoparticles	<i>Ramabai Narasimhachar, Bharati Basavaraj, Basavaraja Sannakki</i>
03.00 pm	MS 7453	Impact of quantum dots on refractive index of nematic liquid crystal polymer system	<i>Krishnakant Mishra, Santosh Mani, Sameer Hadkar, Pradip Sarawade, S.K Dubey</i>
03.20 pm	MS 7267	An Embedded System approach to Design and Development of an Automatic Spin Coating Machine for Thin Film Applications	<i>V. Jagadeesan</i>
03.40 pm	MS 8014	A research on level of awareness and implementation of building information modelling in construction industry in Afghanistan.	<i>Jamshid Yosufi, Sahil Arora</i>
04.00 pm	MS 7455	Synthesis, Characterization of chromium oxide powders and coatings	<i>Vivek Jaiswal, Harshit Ekka, Srijan Choudhary, Claritus D'Souza, Basil Joy, S. Gowtham Sanjai</i>

Session: ME03 - ONLINE

Date: 14.04.2023

Time: 10.30 am to 04.30 pm

Session Chair : Prof. P.Sathish, AP / MECH

Session Link : <https://meet.google.com/mjn-yqyc-rzx>Session Whatsapp link : <https://chat.whatsapp.com/CFcO6emCK0z01IrmBaBmd8>

Time	Paper ID	Paper Title	Author(s)
10.30 am	MS 7374	Mining waste utilization as a sound absorbing material	<i>Manas R Das, Suchismita Satapathy and Lalit K Potha</i>
10.50 am	MS 7378	Influence of Material Distribution on the Position of Neutral Axis of Functionally Graded Cantilever Beam	<i>Shashi Chichkhede, Deepak Mahapatra, Shubhashis Sanyal and Shubhankar Bhowmick</i>
11.10 am	MS 7390	Prediction of Surface Roughness of Monel K 500 Super Alloy by Using Artificial Neural Network	<i>Dilli Ganesh V, R.M.Bommi</i>
11.30 am	MS 7395	Reduced Graphene Oxide Membrane as Filter for Wastewater Purification	<i>Abijeeth X, Ashwin S, Siva Prakash V*</i>
11.50 am	MS 7396	Certification of Welder for Tungsten Inert Gas Welding in Unmanned Aerial Vehicle Systems	<i>N Subramanya, A R Satheesh Kumar, Visakh D G, Balasubramanya K</i>
12.10 pm	MS 7410	Surface hardening of CP Ti by laser hardening and development of Ti/TiC Surface Composite by Laser intering Technique for wear resistant surface	<i>Rajesh Chaudhari, Adesh Shete, Gaurav Mane, Hitisha Nathwani, Vinayak Phulambrikar, Vikas Agarwal</i>
12.30 pm	MS 7437	Mechanical characterization of pineapple leaf fiber epoxy composites with steel wire mesh	<i>Ajay Kumar, Abhishek Singh</i>
12.50 pm	MS 7312	Evaluation of Machinability performance MRR and SR of AA7050-7.5% B4C-T6 Composite through EDM	<i>Arvind Kumar, Abhishek Kumar, Jai Prakash, Ranbeer Kumar</i>

02.00 pm	MS 7444	Feasibility study on waste cooking oil as a fuel in CI Engine	<i>Kalaiselvan M, Vidyacharan Reddy M, VenkatSai M, Ramanathan V, Sangeethkumar E, Aswin ganapthy S, Jaikumar M, Selvakumar R, Nakhandrakumar R.S, Muhamad Bin Mat Noor</i>
02.20 pm	MS 7447	Experimental Study on Mechanical Effects of Al ₂ O ₃ Filled E-Glass / Hemp /Pineapple/Epoxy Hybrid Nano Composite	<i>Sangeethkumar E, Ramanathan V, Jaikumar M, Nakandhrakumar R.S, Gnanasekaran K, Bhavani Shankar P, Gowtham Sai N, Sai Krishna G.V</i>
02.40 pm	MS 7448	Design, Modelling and Side-crash Analysis of Pillar C and D for a Sub Urban Vehicle	<i>Md Ibrahim, Sangeethkumar E, Ramanathan V, Jaikumar M, Selvakumar R, Nakandhrakumar R.S, Arulananthasamy S</i>
03.00 pm	MS 8002	Improving the vortex tube parameters using CFD analysis for sustainable manufacturing	<i>S Tamil Selvan, K Venkatraman, K Arun Balasubramanian,G Venkatesan</i>
03.20 pm	MS 7429	Experimental Investigation on Strength Characteristics of Concrete by Partial Replacement of Cement with Sodium Silicate	
03.40 pm	MS 7239	Determination of Transmission Error and Mesh Stiffness in Spur Gear Pair using CAD-FEM Integration Approach	<i>V K Karma, G Maheshwari</i>
04.00 pm	MS 7137	Thermal, Mechanical and Biocompatibility Assessment of PEEK and CF/PEEK: A Review	<i>Mr. Shrijan Sharma, Dr. Sujoy Kumar Dey, Mr. Vikash Mainali and Dr. Manish Kumar Roy</i>
04.20 pm	MS 7049	Development and characterization of green composites from agro waste Aloe Vera and Pineapple leaf fiber	<i>Ajay Kumar, Abhishek Singh</i>

04.40 pm	MS 7379	Effect of Electroless Nickel Coating on Wear Rate of EN8 Steel	<i>Sandip Ghosh, Bidesh Bose, Suraj Gaji, Allen V. Lakra, Suvankar Debnath, Santanu Ghosh</i>
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