

List of MFS accepted papers

Dear Author

Thank you for submitting your work to ICARAE2021. Please find the list of papers that are fully and provisionally accepted. Please note that the unregistered papers will not be included on the final program and as such will be removed from the MSF system. Please also note that all registered papers need to be presented at the conference.

No.	Paper ID.	Paper Title	Authors	Affiliation	Reg/Unreg
1	MSF#01	Critical Review on 3D Scaffolds Materials	Ajit K Yadav, Ankita Awasthi, <u>Kuldeep K Saxena</u> , Manoj K Agarwal	GLA University Mathura, India	Registered
2	MSF#02	Process of Extraction and Characterization of Nanofibrils from Cotton Plant and Fibers and its Natural Composite	Shivanshu Dixit, Srikant Sekhar Padhee	Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar 140001, Punjab, India	Unregistered
3	MSF#03	A Newly Developed Dispersive Interaction Approach, DFT-D3, to the Three-Dimensional Topological Host Material Sb ₂ Te ₃	<u>Nishant Shukla</u> , Pawan Chetri, and Gazi A. Ahmed	Department Of Physics, Tezpur University, Tezpur, Assam 784028, India	Registered
4	MSF#04	Impact of CNC Milling Parameters on Temperature, Surface Roughness, and Chip Formation of General Purpose PMMA	J. M. Wambua, <u>F. M. Mwema</u> , T. C. Jen, E.T. Akinlabi	Department of Mechanical Engineering, Dedan Kimathi University of Technology, Nyeri, Kenya	Registered
5	MSF#05	Analysis of the Multi-Directional Forging of Aluminum Alloy 7075 Process Parameters: Numerical and Experimental Analysis	Cleophas Obara, <u>Fredrick M. Mwema</u> , TC Jen	Department of Mechanical Engineering, Dedan Kimathi University of Technology, Nyeri, Kenya	Registered
6	MSF#06	Numerical Analysis of Heat Conduction through an Orthotropic Material Employing Python	Arpan Kumar, Apurba Kumar Roy, <u>Kaushik Kumar</u> , B. Sridhar Babu	Birla Institute of Technology, Mesra, Ranchi, INDIA	Registered
7	MSF#08	The Progress in Using 3-D Printing Wastes towards a Circular Economy	<u>Joan Nyika</u> , Megersa Olumana Dinka	University of Johannesburg, Department of Civil Engineering Science, University of Johannesburg, APK Campus 2006,	Registered

				Johannesburg, South Africa	
8	MSF#09	Comparative Study on Controllable Electro-Magneto Rheological Fluids - a Brief Review	Ranjan Kumar, Apurba Kumar Roy, <u>Kaushik Kumar</u>	Birla Institute of Technology, Mesra, Ranchi, INDIA	Registered
9	MSF#11	The Influence of Material Position towards the Bending Strength of the 4 Pass AA1050/AA6082 and AA6082/AA1050 FSPed Joints	<u>Oritonda Muribwathoho</u> , Velaphi Msomi, Sipokazi Mabuwa	Cape Peninsula University of Technology, Mechanical Engineering Department, 7535, South Africa.	Registered
10	MSF#13	Optimization of Process Parameters on Mild Steel Rotavator Blades	<u>Kaushal Kumar</u> , Rishabh Arora, Saurav	School of Engineering and Technology, K.R. Mangalam University Gurugram-122103, India	Registered
11	MSF#15	MHD Slip Flow and Heat Transfer with Ohmic Heating between a Rotating Solid Disk and Stationary Permeable Disk	Sreedhara Rao Gunakala, <u>Victor Job</u> , Maraika Alexander	Department of Mathematics, The University of the West Indies, Mona, Jamaica	Registered
12	MSF#16	Experimental Study on Reinforced Aluminium Metal Matrix Composites with B4C through Different Techniques	<u>S. Nallusamy</u> , R.T. Chander, Gunji Venkata Punnarao	Department of Mechanical Engineering, Dr. M.G.R. Educational and Research Institute, Chennai-600095, Tamilnadu, India	Registered
13	MSF#17	Ageing studies of Wood-PLA 3D printed composites by FFF technique	<u>K.Vigneshwaran</u> , N. Venkateshwaran, S.Panneer Selvan, N.Vinoth Babu	Department of Mechanical Engineering, Rajalakshmi Engineering College Thandalam, Chennai, Tamilnadu, India	Unregistered
14	MSF#18	Evaluation of mechanical and micro structural properties of natural fibre reinforced polymer composites	<u>Santha Rao D</u> , Gopala Krishna Murthy O	Department of Mechanical Engineering, GIET(A), Rajamahendravaram, A.P. India - 533296.	Registered

15	MSF#19	Energy Absorption Characteristics and Elastoplastic Damage Response of Hybrid Epoxy/coir Fibre-reinforced Aluminum 6063 Tubes in Axial Deformation.	B. O. Malomo, <u>O. K Ajayi</u> , O. T. Ogunbodede, O. O. Olabinjo, O. O. Fadodun, B. Z. Adewole, I. B. Nasirudeen, D. D. Obembe	Dept. of Mechanical Engineering, Obafemi Awolowo University, Ile-Ife.	Unregistered
16	MSF#22	Micro Forming and its Applications: An Overview	<u>Sachin Kumar Sharma</u> , Kodli Basanth Kumar, Kuldeep Kumar Saxena	Department of Mechanical Engineering, GLA University, Mathura, UP, India	Registered
17	MSF#23	ANALYZING THE FATIGUE BEHAVIOUR OF E-GLASS FIBER REINFORCED INTERPENETRATING POLYMER NETWORKS(EP/VP/EV) LEAF SPRING	Karjala Santhosh Priya, K.R.Vijaya Kumar, <u>G.Suresh</u> , R.Ganesamoorthy, Rajesh Ravi, C.M.Meenakshi	Dept. of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai, India.	Registered
18	MSF#26	A STUDY ON: INFLUENCE OF CARBON FIBER REINFORCEMENT IN INTERPENETRATING POLYMER NETWORKS (EP/VP/EV) ELLIPTICAL LEAF SPRING	Karjala Santhosh Priya, K.R.Vijaya Kumar, <u>G.Suresh</u> , R.Ganesamoorthy, Rajesh Ravi, C.M.Meenakshi	Dept. of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai, India.	Registered
19	MSF#27	Design & Analysis of Piston using ANSYS	Amit Kumar Soni, <u>S. S. Godara</u> , Ramesh Gade, Vinayak Brenia, Rupender Singh Shekhawat, Kuldeep K Saxena	Department of Mechanical Engineering, Rajasthan Technical University Kota, Rajasthan-324010 INDIA	Registered
20	MSF#29	Experimental Analysis on Flow Field Pattern of PEM Fuel Cells	Devendra Prasad, G Naga Srinivaslu, Ajaya Bharti, <u>Naveen Kumar</u> , Syed Mohd Azam, Kuldeep K. Saxena	Applied Mechanics Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	Registered
21	MSF#30	Properties and white light photoresponses of CdSe colloidal Nanoparticles	<u>Kahtan. A. Mohammed</u> , Manal. M. Hadi, Eman Hamid Hussein, Alaa. S.Al-Kabbi, Kareema. M. Ziadan	Department of Medical Physics, Hilla University College, Babylon, Iraq	Registered

22	MSF#31	Synthesis and Characterization of PVDF/Graphene nanocomposite membrane for water treatment applications	Srilatha Rao, Avinash Lakshmikanthan ,Sowmyashree AS, Chitrakara Hegde, Arun M Isloor, <u>Vinayak R. Malik</u> , Kuldeep K. Saxena	Department of Mechanical Engineering, KLS Gogte Institute of Technology, Belagavi, India; Visvesvaraya Technological University, Belagavi, India.	Registered
23	MSF#32	Simulation Analysis on Flow Field Pattern of PEM Fuel Cells	Devendra Prasad, G Naga Srinivaslu, Ajaya Bharti1, <u>Naveen Kumar</u> , Venkateswarlu Velisala, Akhilesh Kumar Chauhan, Kuldeep K. Saxena	Applied Mechanics Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	Registered
24	MSF#33	A review of Magnesium based MMC fabrication techniques for biomedical applications	<u>Pankaj Sonia</u> , Jinesh K Jain, Kuldeep K Saxena	Department of mechanical engineering MNIT Jaipur, India	Registered
25	MSF#34	The Mechanism of Adsorbents Adsorption Affinity in Relation to Geometric Parameters	<u>Sindisiwe Ntsondwa</u> , Velaphi Msomi, Moses Basitere	Bioresource Engineering Research Group (BioERG), Cape Peninsula University of Technology, P.O. Box 652, Cape Town, 8000, South Africa	Registered
26	MSF#35	Design and Fabrication of Injection Molds to Manufacture Double Channel Laryngoscope for Effective Airway Management: Taguchi Method for Surface Roughness Optimization	P. Balachander Shetty, J. Sudheer Reddy, Avinash Lakshmikanthan, Manjunath Patel G.C, <u>Vinayak R. Malik</u> , Kuldeep K. Saxena	Department of Mechanical Engineering, KLS Gogte Institute of Technology, Belagavi-590006 Visvesvaraya Technological University, Belagavi, India.	Registered
27	MSF#36	Analysis of entropy generation in micropolar magneto-nanoliquid material with activation energy and nonlinear radiation	R.A. Kareem, <u>S.O. Salawu</u> , O.K. Onanuga, A.B. Disu	Department of Mathematics, Landmark University, Omu-Aran, Nigeria	Registered

28	MSF#38	An Approach to Measure Tool Wear through Image Processing in Incremental Sheet Metal Forming	<u>Manish Oraon</u>	Faculty, Birla Institute of Technology Mesra, Ranchi, 835215, India	Registered
29	MSF#39	Role of Additive Manufacturing in Development of Forming Tools and Dies for Sheet metal forming: A Review	<u>Bharat Singh</u>	Department of Mechanical Engineering, GLA University Mathura, UP India 281406	Registered
30	MSF#40	Surface topography studies using 3-d surface roughness parameters on cad/cam milled dental zirconia for different post-fabrication processes	<u>Ashwini Patil</u>	School of Mechanical Engineering (SMEC), VIT University, Chennai, Tamil Nādu, India-600127.	Unregistered
31	MSF#41	An overview of non-destructive testing applications and its future directions – a review	N. Venkateshwaran, C. Devanathan, <u>Gopi Suresh</u> , S. Dhandapani, R. Giri, C.T. Muthiah	Dept. of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai – 600 124, India.	Registered
32	MSF#42	Mechanical Characterization and Numerical Optimization of Aluminum Matrix Hybrid Composite	Adeolu Adesoji Adediran, <u>Francis Odikpo Edoziuno</u> , Olanrewaju Seun Adesina, Kehinde Oluseun Sodeinde, Abiodun Babafemi Ogunkola, Goodness Adeola Oyinloye, Cynthia Chinasa Nwaeju, Esther Titilayo Akinlabi,	Department of Metallurgical Engineering Technology, Delta State Polytechnic, Ogwashi-Uku (DSPG), Nigeria	Registered