



**9th International & 30th All India Manufacturing Technology,
Design and Research Conference
(AIMTDR 2023)
December 08-10, 2023**



Poster Session

Date: 09.12.2023

Time: 11:00 am - 11:45 am

Session Chairs: Prof. B. B. Ahuja, Prof. U S Dixit, Prof. V Prabhu Raja, Prof. J Ramkumar, Prof. Santosh Kumar

Location: Swatantrata Bhawan Foyer

Paper ID	Paper Title	Presenting Author
12	Effect of flow forming Processes on Microstructure and grain size of AA 6061 Aluminum Alloy	G Venkateshwarlu
72	Design and Optimization of a Heat Sink for Multi-Material Co-Extrusion in Additive Manufacturing	Mithilesh Kumar Tiwari
80	Electroformed Copper Pillar Structures on Additively Manufactured Template: Modeling and Validation	Prince Kumar Rai
84	An Experimental Investigation of micro-hole generation on Ti-6Al-4V through electrochemical micromachining.	Ganesh Damodar Kale
107	Optimisation of Machining Process Parameters of AA7475 composites	Dr. A Sreenivasulu Reddy
108	Analysis of temperature effect for FDM printed parts using ABS material in Additive Manufacturing.	Sanjay Sharma
118	Effect of High-Entropy Alloy Nanoparticles on the Microstructure and Mechanical behaviour of AA7150 Nanocomposite	Deepak Kumar
127	Influence of reduced Graphene oxide (rGO) modified CFRP composites during abrasive water jet machining	Rajesh Kumar Verma
131	Studies on different MCDM techniques in micro-electrical discharge machining of titanium alloy	R Gunasekaran



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132	Microstructural Evaluation of Gd ₂ Zr ₂ O ₇ Thermal Barrier Coating Developed by EB-PVD Technique	G Bhavesh
134	IMPLEMENTATION OF JUST IN TIME MANUFACTURING USING 3D PRINTER	Rohit Chandran R
145	Implementation of Autonomation and Value Stream Mapping for Productivity Improvement	Dr. Ishwar Bhiradi
194	Design and Prototyping of a Novel LPG Valve Leakage Testing Machine	Dev Dharmesh Saglani
197	Investigation on ultrasonic welding as a post-processing approach for overcoming a material extrusion 3D printer's build volume constraint	Omkar Raj Aryan
201	Weldability Study of EN8 Medium Carbon Steel by Manual Metal Arc Welding	Soumojit Dasgupta
270	Residual Stress Analysis in an Infinite Plate with a Central Aperture under Thermal Loading	Mohit Rajput
294	A simulation based degradation study of 3D printed Ti6Al4V screw and plate implant	Dayanidhi Krishana Pathak
330	The relationship between deformation parameters and corrosion parameters of the Al-5.6Zn-2Mg powder metallurgy alloy during hot upsetting	Katika Harikrishna
350	Experimental study on the feasibility of friction stir lap welding of Polycarbonate to Al6061 sheets	Nisith Kumar Goswami
365	A Review on The Application of Magnesium Metal Ma-trix Composites in The Biomedical Field	Rawad Yaqoub Aljabr
369	Effects of Mesoporous Structure on Corrosion Behavior of Metal Fused Filament Fabricated 316L Stainless Steel	Vijaya Kumar P



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386	Feasibility Analysis of aluminium alloy welding using Cold Metal Transfer (CMT) for Electric Vehicle battery tray fabrication	Rukaiya Azma
410	Machine learning based erosion response analysis of hybrid FRP composites	Sourav Kumar Mahapatra
436	Experimental Analysis and Optimization of Input Control Variables on Milling of SS316L Steel using Hybrid MCDM method (AHP-TOPSIS)	Dr. Abhishek Singh
266	Design and Analysis of Gradient Lattice Structure for Light Weighting Applications	Hemnath A K
327	Analysis of nonuniformity in the material removal and surface roughness in abrasive flow finishing of spur gear owing to variation in the media flow passage cross section	Irfan Ahmad Ansari
465	Optimization of process parameters for ultrasonic welding of Al-Al sheets	Viswajeet Kumar