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Sr.no	Paper ID	Paper Title	Author Names	Affiliation	Registered Status
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2	109	An insight into the annealing temperature impacts on the structural, optical, and electrical properties of PVD RF sputtered Ga2O3 thin films	Pramod Mandal1,3, Rakesh Pani3, Subhrasmita Tripathy3, Udai P. Singh2, Sudesna Roy3*	Department of Graphic Arts and Photophysics, Faculty of Chemical Technology, University of Pardubice, Pardubice, Czech Republic	Un Registered
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4	115	ZnO Nanostructures for LPG Detection: A Bio-genic Approach Using Aloe Vera Extract	Dr. Dayanand Bhaurao Jadhav1, Dr. Pravin B.M.2	Shrinivas University, Mangaluru, Karnataka.	Un Registered

5	117	Experimental Investigation of Thermal Characteristics and Heat Flux Distribution of Hydrocarbon Pool Fires in a Naturally Ventilated Compartment	Avinash Chaudhary1*, Mahesh KumarTiwari2, VinayPrakash Tyagi3, Nihal AnwarSiddiqui4, Indu5, RoopsandeepBammidi6, Santhosh Dubba7	School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT) Deemedtobe University, Bhubaneswar-751024, Odisha, India	Un Registered
6	121	Importance, Characteristics and Application of High Entropy Alloy	Roopesh Kumar Sinha1*, Kuldeep K. Saxsena2, Vikky Kumhar3, Rajesh Purohit4 and Alok Singh5	Lecturer, Department of Mechanical Engineering, NMDC DAV Polytechnic Geedam Dantewada, Chhattisgarh 494441, India.	Un Registered
7	126	Development of Metal Matrix Composites via Powder Metallurgy Process using Hot Isostatic Pressing: A Review	Gaurav Bajpai1*, Anurag Namdev2, Rajesh Purohit3, Avinash Kumar3,	Department of Mechanical & Automobile Engineering, UIET, BBAU Lucknow-226025	Un Registered
8	129	Influence of Carbon Nanotube Reinforcement on Mechanical and Micro-Structural Characteristics of Photo-Sensitive Resin Composites	Sravani Madhurakavi 1, Dr. Nilotpala Bej 1*, Dr. A. B. Harichandan2 and Dr. Gajula Sudarsan3	Department of Mechanical Engineering, Kalinga Institute of technology Deemed to be University, Bhubaneswar, India	Un Registered
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10	136	Predicting Hot Working Temperatures for ASS 304: A Data-Driven Approach with Material Characterization and Processing Using LR and Ridge Models	P Srividya Devi1,*, Jugge Praveen1, A. Anitha Lakshmi2, Vijaya Rama Raju V1, M Rekha1, Sekhar Chinthamreddy3	Department of EEE, GRIET, Hyderabad, Telangana, India, 500090.	Un Registered
11	139	Thermo-Acoustical Investigation of Nortriptyline Hydrochloride in Aqueous Bile Salt Solutions	M. Manisha1, Prativa Kar1, Braja B. Nanda2 Binita Nanda3	Department of Chemistry, GIET University, Gunupur-765022, Odisha, India	Un Registered
12	141	Metamaterial-Enhanced Low Profile Antenna: Meander-Line Microstrip Patch with Hybrid Square Circular Split-Ring Resonators for Multi-Band S Band Applications	K. N. V. Khasim1,2*, B. Rajasekar1 and Vulleru Swamulu3	Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India.	Un Registered

13	142	A Comparative Investigation of Ex-situ and In-situ Processes for Mechanical Properties in Polyaniline TiO ₂ Composite and Nanocomposite Films	Rajeev Arora ¹ , Anupam Srivastav ² , Uttam Kumar Mandal ³ , Pankaj Sharma ⁴	PhD. IFTM University Moradabad, India	Un Registered
14	146	Advancements in Metal Casting: A Comprehensive Review of Modern Processes, Principles, and Applications	Dr. Vivek S. Ayar ¹ , Dr Sunny Singhanian ^{2*} , Dr. Anas Siddiqui ³ , and Dr Himanshu Khandelwal ⁴	School of Engineering and Technology, National Forensic Sciences University, Gandhinagar – 382007, India	Un Registered
15	147	Enhancement of mechanical and low-velocity impact performance of carbon/glass fiber epoxy composites using graphene nano-fillers	Lokesh Raj ¹ , Himanshu Pathak ^{2*} , Sunny Zafar ¹ , Anoop Anand ²	Composite Design and Manufacturing Research Group, School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi, Himachal Pradesh, 175075, India	Un Registered
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19	159	Predicting Hot Working Temperatures for ASS 304: A Data-Driven Approach with Material Characterization and Processing Using LR and Ridge Models	P Srividya Devi ¹ , *, Jugge Praveen ² , A. Anitha Lakshmi ³ , Vijaya Rama Raju ⁴ , V 4, M Rekha ⁵	Associate Professor, Dept. of EEE, Gokaraju Rangaraju institute of engineering & technology, TS, India	Un Registered
20	162	Strength Properties of Aerated Concrete Modified with	M. Selvakumar ¹ , S. Geetha ^{1*} , B. Jeshwanth ² , Ferin J Tifo ² , B. Parthiban ²	Professor, Department of Civil Engineering, Rajalakshmi Engineering College, Chennai, India	Un Registered

		Phosphogypsum and Carbon Nano Tubes			
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26	181	Experimental Investigation of Banana/Bristol Coir Fibre Hybrid Composites for High-Performance Lightweight Materials	Roopesh Kumar Sinha ^{1*} , Vikky Kumhar ² , Ajay Kumar Verma ³ and Kuldeep K. Saxena ⁴	Department of Mechanical Engineering, NMDC DAV Polytechnic Geedam Dantewada, Chhattisgarh 494441, India.	Un Registered
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47	349	Hermetic joining of Stainless Steel (SS304) and Molybdenum by vacuum brazing process using OFE Copper as filler material	Vikas Mangla*, Sandeep Kumar and Anubhaw Kumar Singh	Terminal Ballistics Research Laboratory, DRDO, Chandigarh, India	Un Registered
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49	364	Machinability Analysis of AISI 316H Stainless Steel Using Coated and Uncoated Carbide Inserts: A Finite Element Approach	Kosaraju Satyanarayana1*, Rishi Loya1, Franklin Benedict Lopez1, Murahari Kolli2, Mendi Venkannababu3	Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana.	Un Registered
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52	373	Effect of Aqueous Electrolytes on Surface Morphology of Ti-6Al-4V Alloys in Electrochemical Micromachining (ECMM): A Review	Mukesh Tak 1, Shashi Ranjan Singh 2,*, Suneel Donthamsetty 3	Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India.	Un Registered
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56	527	Effect of Applied Stress on Rupture Life of DS CM247LC at Intermediate Temperature	Praveen Gagrai1, Alok Singh Chauhan2, Jyoti Shankar Jha3, Shanta Chakrabarty1*	School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar-751024, Odisha, India	Un Registered
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58	539	A Study of Dilution and Hardness of TIG Cladded Al Ni-Ti System	Anas Ahmad Siddiqui1*, Vineet Chak1, Anand Mohan Murmu2, Sanjay Varalal, Uma Mahesh Polluri1	Department of Foundry and Forge Technology, National Institute of Advanced Manufacturing Technology, Ranchi, India	Un Registered
59	802	Investigation on PEM Electrolysis Process for the Extraction of Green Hydrogen Using Silica Nanoparticles	D Srinivasa Rao1*, Addala Satyanarayana2, B Phaneendra Babu1 I.E.S. Naidu4 and P. Harikrishna Prasad5	Department of EEE, GRIET, Hyderabad, Telangana, India.	Un Registered

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63	827	Energy Efficient Wire-EDM of Ti-6Al-4V: Optimization towards sustainable machining performance	Adyasa Dey ¹ , Bijaya Bijeta Nayak ^{2*} and Bharat Chandra Routara ³	School of Mechanical Engineering, KIIT Deemed to be University, Bhubaneswar, Odisha, India	Un Registered
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71	961	Experimental Analysis of Printing Speed and Layer Thickness Effects on the Hardness of PLA Manufactured by Fused Deposition Modelling	S Prathap Singh ^{1*} , M Dhanasekar ¹ and I Murali ¹	Department of Mechanical Engineering, St. Joseph's Institute of Technology, Chennai, Tamil Nadu, India	Un Registered
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73	1106	Machine Learning Methods for Secure and Privacy Preserving Data Sharing	Miku Ranjan Dey ¹ , Jayanti Dansana ² , Seema Gupta Bhol ^{3*}	School of Computer and Engineering, KIIT Deemed to be University, Bhubaneswar, India	Un Registered
74	1119	Comparative Study of Surface Mounted and Embedded PZT Sensors in RCC Beam Using ANSYS	Sarthak Patwari ^{1*} , Priyanka Dhurvey ¹	Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal, India	Un Registered

75	1126	Comprehensive Material Evaluation of SS316L, Mild Steel, and Cast-Iron Grades Through Machining, Microstructure, and Non-Destructive Testing	Dr. Sampada Dravid ¹ , Sanskruti Patil ² , Shreyas Pisal ³ , Shourya Powar ⁴ and Soham Pawar ⁵ .	Mechanical Engineering, Vishwakarma Institute of Technology, Pune, India	Un Registered
76	1130	Experimental study of thermal energy storage of a webbed tube heat exchanger using phase change material	Prateek Das ¹ , SatyaPrakash Kar ^{1*} and RK Sarangi ¹	Heat Transfer Laboratory, School of Mechanical Engineering, KIIT Deemed to be University, Bhubaneswar, Odisha, India	Un Registered
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80	1149	Optimization Of the Process Parameters of The Fused Filament Fabrication Technique: An Overview	Sundaravaradan Krishnakumar ¹ , Sathish Kannan ² , Vinayagam Mohanavel ³ , Naveenkumar Boddula ⁴ , LSP.Subbu ⁴ , Thella Ashok Kumar ⁵	Department of Mechanical Engineering, Academy of Maritime Education and Training (AMET) Deemed to be University, Kanathur, Tamil Nadu, 603112, India.	Un Registered
81	1153	Fabrication and Mechanical Characterization of Tamarind Seed Powder and Aluminium Powder Reinforced Epoxy Hybrid Composite	Ch. Bandhavi ^{1*} , E. Dinesh ¹ , T. Vardhan Kumar ¹ , Gyanesh Tripathi ³ , Ch. Pavan Kalyan ¹ , Kandru John Babu ²	Department of Mechanical Engineering, GRIET, Hyderabad, Telangana, India.	Un Registered

82	1159	Implementation of AXI4-Lite Slave with Dual-Peripheral Visualization and ALU Integration on FPGA	G. Surekha ¹ , Arpith Siddojigari ² , Anish Nalakonda ³ , Harshavardhan Paturi ⁴ and Pilli Sravani ⁵	Department of ECE, GRIET, Hyderabad, India	Un Registered
83	1163	Investigating the influence of welding current and PWHT on the microstructural evolution, mechanical performance in gas metal arc welded AISI 1008 mild steel joints	Rahul ¹ , Inturi Vamsi ¹ and Degala Ravi ^{1*}	Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology, Telangana, India.	Un Registered
84	1306	Analysis of Energy Harvesting Performance in Cantilever and Annular Ionic Polymer Metal Composites	Amit Patel [*] , Saumya Shrivastava ² , Shweta Tiwari ^{1,2} and Sujoy Mukherjee	Department of Mechanical Engineering, PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India	Un Registered
85	1309	Machine Learning-Based Analysis of Mechanical Properties in Austenitic Stainless Steel 304: Linear Regression vs. Lasso	M Rekha ^{1*} , V Vijaya Rama Raju ¹ , J Praveen ¹ , A Anitha Lakshmi ² , P Srividya Devi ¹	Department of Electrical and Electronics Engineering, GRIET, Hyderabad, Telangana, India	Un Registered
86	1320	Taguchi-Based Data-Driven Optimization of Fused Filament Fabrication Parameters for Enhancing Shore D Hardness of Glass Fiber Reinforced Polycarbonate	A. Shyam Sundar ¹ , A. Ajai ¹ , O. Gokulnath and R. Elansezhian ⁴	Department of Production Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India	Un Registered
87	1329	Effect of heat input on the microstructure and mechanical properties of friction welded EN24 – low alloy steel	V. T. Gaikwad ^{1, 2*} , M. K. Mishra ² , R. C. Kadam ¹ , R. K. P. Singh ¹ , P. V. Gaikwad ³	Kalyani Centre for Technology and Innovation, Bharat Forge Limited, Pune 411036, India	Un Registered
88	1335	Development and Characterization of Casein - Based Biocomposite Films Incorporated with Palm Fruit Extract: Antibacterial and Antioxidant Studies	Saranya. D and Malar Retna. A [*]	Department of Chemistry and Research Centre, Scott Christian College, Nagercoil – 629003	Un Registered

89	1339	Sustainable Turning of EN-353 Alloy Steel: Multi-Objective Optimization with MQL and Hybrid Nanofluid	A. Venkata Vishnua*, K Lavanya ^b	Associate Professor, Department of Mechanical Engineering, Aurora Higher Education and Research Academy (Deemed-to-be-University), Bhongir Campus, Telangana, India	Un Registered
90	1342	Influence of Silicon Carbide and Red Mud Reinforcements on the Mechanical Behavior of AA6061 Hybrid Composites	Kotthapalli Karthik1, Priyaranjan Samal2*, Ramatenki Chinna3, Tanya Buddi4	Department of Mechanical Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, 522302, India.	Un Registered
91	1349	Influence of Coconut Shell Ash Particle Content on the Mechanical and Tribological Properties of AA6061 Metal Matrix Composites	Chitrasen Samantra1, Durjyodhan Sethi2, Kanchan Kumari3	Department of Mechanical Engineering, Parala Maharaja Engineering College, Sitalapalli, Berhampur, Odisha 761003, India.	Un Registered
92	1355	Tribological behaviour of nano-TiB2 reinforced Al 7075 MMCs: ANOVA, regression analysis and Taguchi based individual response optimization	S Soumyaranjan Baliarsingh1, Rasmi Ranjan Behera1, Diptikanta Das1*	School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar-751024, Odisha, India	Un Registered
93	1359	Hybrid Image and Conventional Machining Data-Based Optimization for Improved Surface Quality	Ashlin Deepa R N1*, Chittampally Sanjay1, K. Teja Venkat Sai Reddy1, A Sai Gowtham Reddy1, Shaik. Mahammad Shareef 2	Dept. of Computer Science and Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India	Un Registered
94	1362	Strength Evaluation Of Sustainable Concrete Influenced With Steel Slag Aggregate And Waste Steel Bottle Cap Fibers	Veeraballi Mallikarjuna Reddy1*, Polasa Rajesh Mani2, Vivek Kumar C3, Nayab Mahaboobsbhani4	Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India.	Un Registered
95	1369	AI-Driven Closed-Loop CIM Framework with Digital Twin Assisted Adaptive Optimization for High-Mix Low-Volume Electronics Assembly	Rajiv Kumar Yadav1, Manish Kumar Singh2, Amit Kumar Jaiswal3, Santosh Kumar4, Pankaj Kumar Srivastava5, Sandeep Kumar6, Sarika Shrivastava7	Department of Mechanical Engineering, Ashoka Institute of Technology and Management, Varanasi, UP, India	Un Registered
96	1509	Machine Learning-Based Tensile Strength Prediction of Dissimilar AA6061-AA7075 Friction Stir Weld Joints	Parameshwar Rout1, Anirban Bhattacharya1, *	Mechanical Engineering Department, Indian Institute of Technology Patna, Bihar, India	Un Registered

97	1519	Prediction of molar volume for NiCoCr medium entropy alloy (MEA) using supervised machine learning techniques	Thaer Syam	Department of Mechanical Engineering, Texas A&M University, 3123 TAMU, College Station, TX 77843, USA	Un Registered
98	1526	Microstructure Evolution, Phase Formation and Wear Behaviour of High Entropy Alloy Fabricated by Mechanical Alloying and Spark Plasma Sintering	Pradip Kumar Verma ^{1*} , Alok Singh ¹ , Sanjeev Verma ² , Sameer Vishwakarma ³ , Rajeev Kumar Yadav ⁴ , Amit Kumar ⁵	Mechanical Engineering Department, Maulana Azad National Institute of Technology, Bhopal M.P. 462003, India	Un Registered
99	1533	Experimental Investigation on Electrochemical Machining of AM60B Magnesium Alloy	Rajesh Kumar ¹ , Dr. S S Dhami ²	Department of Mechanical Engineering, National Institute of Technical Teachers, Training and Research (NITTTR), Chandigarh, India	Un Registered
100	1539	Multi-Objective Optimization of WEDM Performance and Surface Integrity of Brass Using a Modified Taguchi–Random Forest Regression–Genetic Algorithm Framework	Ramatenki Chinna ^{1*} , Boggarapu Nageswara Rao ² , Kotthapalli Karthik ³ , Tanya Buddi ⁴	Department of Mechanical Engineering, Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur-522502, Andhra Pradesh, India	Un Registered
101	1545	Investigation of Microhardness Variations in Micro-EDM Processed Titanium Aluminides for Advanced Engineering Applications	Pranav Ravindrannair ¹ , K Kishore ² , P Laxminarayana ³ , Mohammad Zahid Ahmad ⁴ , Md Israr Equbal ^{5*}	Department of Mechanical Engineering, MVSR Engineering College, Hyderabad - 500112, India	Un Registered
102	1549	Application of Random Forest Machine Learning Modeling for Optimization of Process Parameters Affecting Tool Wear in Dry Turning of Hardened 20MnCr5 Steel	M. Venkata Ramana ^{1,*} , M.V.R.D.Prasad ² , M. Anita ³ , C.Yugeshwar ²	Department of Automobile Engineering, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, India	Un Registered
103	1552	Dry sliding wear performance of nano-TiB ₂ /Al 7075 cryogenic treated MMCs: Taguchi embedded grey relational analysis	S Soumyaranjan Baliarsingh ¹ , Rasmi Ranjan Behera ¹ , Diptikanta Das ^{1*}	School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar-751024, Odisha, India	Un Registered

104	1557	Comparative Investigation of Fabricated Al 7075/Fe–Cr Slag/Graphene Oxide Nanocomposite Machining under Dry, Flood, and MQL Environments: Microhardness and Chip Reduction Coefficient Analysis	Priyaranjan Sethy, Ashok Kumar Sahoo*, Ramanuj Kumar, Amlana Panda and Anojja Puspashree	Machining Research Laboratory (MRL), School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar-24, Odisha, India	Un Registered
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