

Dear Authors of 8<sup>th</sup> ICMPC, March 2018

Greetings. I would like to thank all of you for submitting your work to the conference (Materials Today: Proceedings). I am attaching a partial list of accepted papers. Our team is busy in reviewing the papers and on request formal acceptance letters can be issued only after 15 December. **This list will keep on updating till 15<sup>th</sup> Jan 2018.** Authors in the accepted list can go for registration. **The papers that are rejected after review, I request the authors not to communicate the same paper again. Also we are not encouraging the minor corrections at this stage. If author would like to correct the paper slightly, at the time of conference we will give opportunity to edit it in our systems. This is to prevent format getting changed. Author should thoroughly check the format of paper, resolution of all the Figs should not be less than 400 dpi and references should be strictly according to the format. I also encourage authors to give some references from previous proceedings of ICMPC and also from IJAMMC ([www.ijammc-griet.com](http://www.ijammc-griet.com)).** Kindly note that conference account is in Axis Bank and we have updated the account details on our website (<http://icmpc.com/registration.html>). **The papers appear in this list can directly go for registration.** Account details are:

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**Immediately after registration, you can communicate to our treasurer Mrs Tanya ([icmpc.reg@griet.ac.in](mailto:icmpc.reg@griet.ac.in), 09642666556).**

Also I have found that some authos are not informing all the authors on the article while communicating. Sometimes such authors are requesting to withdraw the paper when Elsevier starts feeing the database into their system. Kindly note that if you would like to withdraw your paper for what so ever is the reason, do it by 30 March 2018. After that no such request will be entertained. It's the responsibility of corresponding author to inform all the contributing authors.

**This year our review team is little strict and there is high rejection rate. If you have communicated your paper and neither your paper appears in this list nor you got rejection mail, kindly send your paper again.**

### List of accepted papers

S.NO	Paper ID	Author Name	Affiliation	Paper Title
1	101	Amardeep Singh, , Gurbhinder Singh, Vikas Chawlaa	IKG-Punjab Technical University, Main Jalandhar-Kapurthala Road, Jalandhar144603, India	Impact of post coating heat treatment on the behavior of hydroxyapatite coatings: a review
2	104	Divya Zindani and Kaushik Kumar	Research Scholar, Dept. of Mechanical Engineering, NIT Silchar, Silchar, India	Material Selection for Turbine Seal Strips using PROMETHEE-GAIA Method
3	107	A. S. P. Seshank, Dr. A. Balakrishna, M. Indra Reddy, , M. Anil Kumar	Department of Mechanical Engineering, S R K R Engineering College, Bhimavaram, India	Characterization of process parameters on Mechanical Properties of short and randomly oriented Agrostis (Bentgrass) fiber reinforced composite
4	108	Sarvesh P.S Rajput	Civil Engineering, Maluna Azad National Institute of Technology Bhopal, India	An Experimental study on Crushed Stone Dust as Fine Aggregate in Cement Concrete
5	110	K M Akkoli , P B Gangavati, M R Ingalagi, R K Chitgopkar	Hirasugar Institute of Technlogy,Nidasoshi, 591236,India	Assessment and Characterization of Agricultural Residues
6	111	P. Ravi Varma, Ch. Rama Bhadri Raju, M. Anil Kumar, S. Anki Reddy, M. Indra Reddy	Department of Mechanical Engineering, S R K R Engineering College, Bhimavaram, India.	Study on Mechanical properties of jute/ Pineapple leaf fiber reinforced polymer (FRP) composite
7	114	Ramani Mayappana, , Nor Aishah Jaslia	Universiti Teknologi MARA,02600 Arau, Perlis, Malaysia	Silver effect on the intermetallic growth in the Sn-8Zn-3Bi lead-free solder
8	117	Suyesh Pillai, Shubham Kumar, Gaurav Dwivedi Puneet Verma	Department of Mechanical and Automation Engineering, Amity School of Engineering Amity University Uttar Pradesh, India.	Potential green alternatives to conventional lubricants and fuels
9	120	Vimal Gusain, Pankaj Kumar*, Ajit Yadav, Mohit Pawar, Gaurav Dwivedi	Department of Mechanical & Automation Engineering, Amity University, Noida 201301, India	Biofuel production using Castor oil
10	123	B. Pranay Dishan, G. Shanti Priya Jayakar, V. V. D. Sahithi	PG Students, Department of ME, VNR Vignana Jyothi Institute of Engineering and Technology, Nizampet, Hyderabad 500090, India	A Brief Literature Review on Inventory Management
11	126	Surendra Kumar Patel, Raman Nateriya, Kuriachen B, Virendra Pratap Singh	Department of Mechanical Engineering, NIT Mizoram, Aizawl-796012, India	Effect of secondary phase particles on Erosive wear characteristic of dual reinforced particle Al-alloy composites

12	130	Sangharatna Ramteke, Raghuram Maddineni, H.Chelladurai	PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (MP) India.	Formulation, stability analysis and characterization of boric acid based engine oil nanofluid for heat transfer application
13	133	Ikkurti Radhikab,c,sai kiran burlaa, sowjanya kandadaia ,Eswari cha Pinnelli S R Prasada,* Devarasetty Suresh babu b,*	National Geophysical Research Institute- CSIR , Hyderabad-500007	Influence Of Sediment Structural Properties And Their Dynamics In The Formation And Dissociation Of Methane Hydrates
14	134	D.Saritha	Department of Chemistry, Koneru Lakshmaiah Education Foundation,Hyderabad,Telangana,500075 , India	Electrochemical Reaction of Lithium with SbNbO4- ReO3 Structure Type Phase
15	137	Navneet Singha,OF , R K Awasthib, Davinder Singhb, Jugraj Singha	St. Soldier Institute of Engineering and Technology, Jalandhar 144011, India	Influence of radial clearance on journal center motion trajectories
16	138	A.K.Mattaa, Shyam Prasad Kodalib, Jayanth Ivvalaa,b,* P.Jamaleswara Kumar	Dept. of MECH,Koneru Lakshmaiah Education Foundation,Green fields, Vaddeswaram Guntur Dst,A.P.,India.522502	Metal Prototyping the future of Automobile Industry: A review
17	141	Dr.Muna .Kheither .Abbass a , .Dr.Raad Suhail Ahmed Adnanb,Dr MunthirMohammed Alkubaisya	Prof.Production Engineering and Metallurgy Department University of Technology Baghdad, Iraq	Computer Approach of Effect of 0.3 % of Ge,Te and Ce Additions on Thermodynamic Properties and Shape Memory Effect of Cu-14%Al-4.5%Ni Shape Memory Alloys
18	144	Jeyashelly Andasa , Nur Asmidar Ab. Satara	Faculty of Applied Sciences, Universiti Teknologi MARA, 02600 Perlis, Malaysia	Synthesis and Characterization of Tamarind Seed Activated Carbon using Different Types of Activating Agents: A Comparison Study
19	145	Binay Kumar Paula, Santosh Kumar Sahub, Thrinadh Jadama, Saurav Dattaa*, Debabrata Dhupalc, aSiba Sankar Mahapatra	Department of Mechanical Engineering National Institute of Technology, Rourkela 769008, Odisha, INDIA	Effects of Addition of Copper Powder in the Dielectric Media (EDM Oil) on Electro-Discharge Machining Performance of Inconel 718 Super Alloys
20	146	D.M. Wankhede*, B.E. Narkhede, S.K. Mahajanc, C.M. Choudharid	Research Scholar, Department of Production Engineering, Veermata Jijabai Technological Institute, Mumbai- 400019, INDIA	Influence of pouring temperature and external chills on mechanical properties of aluminum silicon alloy castings

21	150	Richa Bhargava, Shakeel Khan*, Mohd Mohsin Nizam Ansari and Naseem Ahmad	Department of Applied Physics, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh-202002, India	Synthesis and Characterization of Pure and Mn incorporated CdO Nanoparticles
22	151	Saurabh Tiwaria, Sajal Biringb, Somaditya Sena	Metallurgical Engineering and Material Sciences, Indian Institute of Technology Indore, India	Effect of Co/Ni co-doping in CeO <sub>2</sub> on structural, optical and vibrational properties
23	154	Debesh Mishraa,*, Suchismita Satapathyb, A.K.Dhalb	School of Mechanical Engineering, KIIT University, Bhubaneswar, Odisha	Hand Tool Injuries of Agricultural Farmers of South Odisha in India
24	157	P.R.Jaiswala,*, N.S.Hirulkarb,*, Loucas Papadakis, K.K.Sundaram	Department of Mechanical Engineering, HVPMCOET, S.G.B. Amravati University, India	Parametric study of non flat interface adhesively bonded joint
25	160	S.Banerjeea, G. Sutradhara	Department of Mechanical Engineering, Jadavpur University, Kolkata-700032, India	Study on Wear Behaviour of Mg-Gr-WC Nanocomposite Using Response Surface Methodology
26	161	G. K. Manjunatha, , K. Udaya Bhata and G. V. Preetham Kumar	Department of Metallurgical & Materials Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore – 575025, India.	Microstructural Characterization and Mechanical Properties of Cast Al-15Zn-2Mg Alloy Subjected to Severe Plastic Deformation
27	162	Dr Jyotsna Kumar	Assistant Professor, MSRUAS, Bangalore, India	Reduction of Iron Contents in Commercial Crude Sodium Sulphide Using Different Adsorbents
28	164	Nitesh Vashishthaa*, S.G. Sapatea, Bikram Jyoti Sahariaha, Pranay Bagdeb	Department of Metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology (VNIT) South Ambazari Road, Nagpur- 440010	Microstructural characterization and wear behaviour of High Velocity Oxy-Fuel sprayed Cr <sub>3</sub> C <sub>2</sub> -25NiCr coating
29	165	Rejithamol R1,*, Beena S1, Santhy A1 and Asha B Nair1	Dept. of Chemistry, Amrita School of Arts & Sciences, Amrita Vishwa Vidyapeetham, P. O. Clappana, Kollam-690525, India	Synthesis, Characterization and Photophysical Properties of Benzylidene-Fluorene Derivatives
30	166	Abhijith Gopakumara, Rakesh Narayana, Sidharth Ajay Nagatha, Nishanthan Pa, Razim Mohammed. Sa#, Smitha Chandran .Sb*	Department of Mechanical Engineering Amrita School of Engineering, Amritapuri, Amrita Vishwa Vidyapeetham, Clappana PO, Kollam.690525, Kerala	Waste Water Treatment by Adsorption Using Economically Viable Natural Adsorbents
31	168	M. Padmanabha Raju*, Sanjay Barua, K. Kirthianand and S. Karthikeyan	Composite Product Development Center, Advanced System Laboratory, Hyderabad	Studies on solvent based phenolic pre-pregs with various reinforcements

32	170	S. Nalini Jayanthi a , N. Bhuvanewaria, K.Thamizharasan	KCG College of Technology, Karapakkam, chennai, Tamil Nadu, India.	Growth and Characterization of Non-linear Optical DL-methionine Doped Copper Sulphate (MCS) Single Crystal
33	171	Rajesh Sharma*, Satyapal Singh and A. K. Singh	Defence Metallurgical Research Laboratory, Kanchanbagh P.O., Hyderabad – 500 058, India	Foreign Object Damage Investigation of a Bypass Vane of an Aero-engine
34	174	R.Poornashri Mathangi , A.R.Prabhakaran , S.Nalini Jayanthi and K.Thamizharasan	Department of Physics, Pachayappa's College, Chennai, India.	Structural, Optical and Mechanical Studies on a novel nonlinear optical material: L-Arginine Potassium Penta Borate(LAKBT) Crystals
35	175	Premkumar Manda*, A Sambasiva Rao, Satyapal Singh and A. K. Singh	Defence Metallurgical Research Laboratory, Kanchanbagh P.O., Hyderabad – 500 058, India.	Failure Analysis of Cooler Fan Drive Gear System of Main Gear Box of Helicopter
36	176	Sangeeta Das,*, S. S. Gautam, C. R. Gautam	Department of Mechanical Engineering, North Eastern Regional Institute of Science and Technology, Itanagar, India-791109	Mechanical and tribological characterization of lead calcium titanate borosilicate glass ceramic doped with ferric oxide
37	179	Gajanan M Naik, Gopal D Gote, Narendranath S	Department of Mechanical Engineering, National Institute of Technology, Karnataka, Surathkal, India	Microstructural and Hardness evolution of AZ80 alloy after ECAP and post-ECAP processes
38	180	Sourabh Shukla , Awanikumar P. Patil, Ankur V. Bansod, and Vipin Tandon	Department of Metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology (VNIT), Nagpur-440010, India	Effect of cold work and thermal ageing on corrosion and mechanical behavior of Cr-Mn ASS
39	183	Royal Madan, Shubhankar Bhowmick , Kashi Nath Saha	Department of Mechanical Engineering, National Institute of Technology Raipur (C.G)-492010, India	Stress and deformation of functionally graded rotating disk based on modified rule of mixture
40	184	Jashanpreet Singh, Satish Kumar , S. K. Mohapatraa, Sagar Kumar	Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India	Shape simulation of solid particles by digital interpretations of scanning electron micrographs using IPA technique
41	187	Rishav Sen ,Sougata.P.Choudhury, Ramanuj Kumar*, Amlana Panda	School of mechanical engineering, Kalinga Institute Of Industrial Technology Deemed to be University ,Bhubaneswar,Odisha-751024	A Comprehensive Review on the feasibility study of Metal Inert Gas Welding
42	188	Mukuna Patrick Mubiayi a, Mamookho Elizabeth Makhathab , Esther Titilayo Akinlabi a	Department of Mechanical Engineering Science, University of Johannesburg, Kingsway Campus, Auckland Park, Johannesburg, South Africa, 2006	Characterization, leachate Characteristics and compressive strength of Jarosite/clay/fly ash bricks

43	190	Beena Saraswathyamma , Santhy A, Uma Sankar P, Vidya R and Rejithamol R	Department of Chemistry, Amrita Vishwa Vidyapeetham, Amritapuri, India	PVC membrane Sensor Immobilized with Clopidogrel- Tetraiodo Bismuthate for the Potentiometric Determination of Clopidogrel from Pharmaceutical Formulations
44	191	B. Ravi , B. Balu Naik	Assistant Professor, Department of Mechanical Engineering, SBIT, Khammam-507001, Telangana, INDIA	Characterization of the Influence of Tool Pin Profile on Microstructural and Mechanical Properties of AA 6061/ B4C Friction Stir Welded Joints
45	192	M.D.Harlpur and D.G.Mallapur	Department of Mechanical Engineering, Rural Engineering College, Hulkoti-582205, Karnataka, India	Wear behavioral studies of as cast and 7H homogenized forged Al25Mg2Si2Cu4Ni alloy at constant load based on Taguchi method
46	194	Rupali Baghela, Dr. Harlal Singh Mali	Malaviya National Institute of Technology, Jaipur- 302017	A study on effects of discharge energy on geometric characteristics of high aspect ratio micro-holes on TiN- Al2O3 ceramics
47	195	Smaranika Nayaka, Jatin Sadaranga, Isham Panigraha, Ramesh Kumar Nayak	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, Odisha, India	Development of carbon/glass fibre reinforcement polymer hybrid composite through modeling and simulation
48	196	Prashant P.Patil , S.M.Chavan , John U. Kennedy Oubagaranadin	Department of Technology , Shivaji University Kolhapur , Kolhapur 416004, Maharashtra, India	A Review Of Membrane Technology For Gas Separation
49	199	J. Laxman, K. Eswaraiah , P. Srikanth	Department of Mechanical Engineering Kakatiya Institute of Technology & Science, Warangal, Telangana, INDIA	Investigation on machining of Titanium Super Alloy in Electric Discharge Machining
50	198	Mandeep Singh, Satish Kumar*, Sagar Kumar, Gopal Nandan, Munish Gupta	Mechanical Engineering Department, Thapar Institute of Engineering & Technology 147004, Patiala, India	Characterization of Iron-ore suspension at In-situ conditions
51	202	Ali Mohamadinaa, Seyed Ebrahim Vahdata	Department of Engineering, Ayatollah Amoli Branch, Islamic Azad University, Amol, Iran	Bonds Strength of St37 to SKF-Cu by Using Diffusion Welding
52	205	VuppulaPrasanna,A. SeshuKumar,P. Ramesh Babu	Assistant Professor, Department of Mechanical Engineering ,CMR College of Engineering &Technology, Hyderabad, India 501401	Pivotal study on CVN value of Friction Stir Welded Magnesium AE42 alloy at different tool rotation and transverse speed
53	204	Pramod Mandal, Uttam Chand, Sudesna Roy	School of Mechanical Engineering, KIIT University, Bhubaneswar, 751024, India,	A Review of Corrosion Resistance Method on Stainless Steel Bipolar plate

54	209	Divyateja D, Konapalli Punny, Sridevi V, Radhika P	PhD Scholar, divyateja.tejaswi@gmail.com, Department of Chemical Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India.	Cell Phenotyping of Pseudomonas sp. Strain DT-4 Capable of Degrading Phenol Using Gen III; Optimization
55	211	Sachinkumar , Narendranath S, Chakradhar D	Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal-575025, India	Effect of FSW on microstructure and hardness of AA6061/SiC/fly ash MMCs
56	212	Krishna G Soni, M. H. Mangrola, V. G. Joshi	Department of Physics, Veer Narmad South Gujarat University, Surat, India-395007	Structural properties and Doping effects of ferroelectric ceramics (Na <sub>0.2</sub> Bi <sub>0.3</sub> Zr <sub>0.5</sub> ) TiO <sub>2</sub>
57	216	Krishna G Soni, M. H. Mangrola, V. G. Joshi	Department of Physics, Veer Narmad South Gujarat University, Surat, India-395007	Impedance and Modulus Spectroscopy Of (Na <sub>0.2</sub> Bi <sub>0.3</sub> Zr <sub>0.5</sub> ) TiO <sub>2</sub> lead-free ceramics
58	219	Manoj kumar hilalpure	Department of mechanical engineering, ACE engineering college, hyderabad 501301, india	Comparison Study Of Different Stylus Method For Measuring Surface Texture
59	220	Prashant Dhanke, , Abhijeet Patil, Vivek Kore	Chemical Engineering Department, PVPIT Budhgaon, Sangli (MH) 416 304	Phosphate removal from waste effluent using improved fly ash
60	222	B. Surekha, P. Gangadhara Rao, B Bijetha, V. Srinivasa Sai	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar, Odisha, India-751024	Surface characteristics of EN19 steel materials by EDM using Graphite mixed Dielectric medium
61	223	Mawlood Maajal Ali ,Ameer Azam and S.J.A. Rizvi	Department of Applied Physics, Aligarh Muslim University, Aligarh, India 202002	Synthesis and characterization of sulfonated poly ether ether ketone (SPEEK)/ CNTs composite proton exchange membrane for application in fuel cells
62	224	Mohsin Talib Mohammed	Nanotechnology and Advanced Materials Research Unit, Faculty of Engineering, University of Kufa, Najaf, Iraq	Mechanical Properties of SLM-Titanium Materials for Biomedical Applications: A Review
63	225	S.Monica Nissya, Bezawada Surendra, K. Daniel Raju, Dr. Meena Vangalapati	Research Scholar, Department of Chemical Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India.	Optimization for the extraction of Bisphenol A; Response surface methodology
64	226	S. Ajay Kumar , Dr. A. Prabhu Kumar, Dr. B. Balu Naik, B. Ravi	Associate Professor, Department of Mechanical Engineering, GDMM College of Engineering and Technology, Nandigama, A.P, INDIA	Production and investigation on Mechanical Properties of TiC reinforced Al7075 MMC
65	227	Shamsan S. Obaida*, D. K. Gaikwada, M. I. Sayyedc,	Department of Physics, Dr. Babasaheb Ambedkar Marathwad University,	Heavy metal ions removal from waste water by the natural zeolites

		Khader AL-Rashdia, P. P. Pawara	Aurangbad 431004, India	
66	230	N. Rahulan , Sundararaman Gopalan, S. Kumaran	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, 690525, India	Mechanical behavior of Mg-Li-Al alloys
67	233	Jangali Satish G. , N. Nagesha	B. V. Bhoomaraddi College of Engineering & Technology, Hubballi, Karnataka, India	Cleaner Production: A brief literature review
68	234	Apoorv Choudharyb*, Milind Malikb*, Sachin Tiwaria*, Ankur dubeya ,Urvashi Sharmaa, Ajay Kumara*	School of Engineering, Gautam Buddha University, Greater Noida 201312, India	Concrete deterioration due to sulphate- A case study
69	237	Swayam Bikash Mishra , Md.Sadique Khan Eeshan Acharya, Durgadatta Nanda	Professor, School of Mechanical Engineering, KIIT University, Bhubaneswar, Odisha, 751024	Parametric Appraisal of Wear Behavior of Coated FDM Build parts using Firefly Algorithm
70	240	Suresh. Kommu, SS.Asadi, A.V.S. Prasad	Department of Civil Engineering VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana, India-500090.	Leaching Behavior and Strength Characteristics of Black Cotton Soil Stabilized With Fly Ash
71	241	Chetan Agrawala, Theophilus Dsouzaa, Karan Prajapatia, Nitin Kotkundeb, Navneet Khannaa*	Department of Mechanical Engineering IITRAM, Ahmedabad-380002, INDIA	A Comparative Analysis of Surface Roughness of Stainless Steel 17-4PH during Machining with Coated Carbide and Ceramic Tool by Response Surface Methodology
72	242	Harpal Singh, Ankush Raina, Mir Irfan Ul Haq	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir,182320, India	Effect of TiB2 on Mechanical and Tribological Properties of Aluminium Alloys – A Review
73	243	M.D.Harlapur and D.G.Mallapur	Department of Mechanical Engineering,Rural Engineering College,Hulkoti-582205,Karnataka,India	Wear and mechanical property studies on ascast and 3H homogenized forged Al25Mg2Si2Cu4Ni alloy at constant speed
74	245	Kazeem O. Sanusi, and Esther T. Akinlabi	The Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg 2006, South Africa.	Experiment on Effect of heat treatment on mechanical and microstructure properties of AISI steel
75	246	B. VenuGopal P.A. Satyanarayana Aniket DascV.Sridevi	Ph.D Scholar, botta.venu@gmail.com, Department of Chemical Engg., Andhra University, Visakhapatnam, Andhra Pradesh, India.	Transterification of Used Cooking Oil and Jatropa Oil: Standardization of Process Parameters and Comparision of Fuel Characteristics

76	247	R Santhanama*, Y Krishnab , M S Sivakumarc	Defence Research and Development Laboratory, Hyderabad, India	Influence of specimen location and effect of residual stress on transformation temperatures of SMA spring using DSC analyses
77	250	M. Tukaram Bai, P. Venkateswarlu, Y.V. Anudeep	Assistant Professor, Andhra university, Visakhapatnam 530003, India	Fixed bed and batch studies on biosorption of lead using Sargassum Tenerrimum powder: Characterization, Kinetics and Thermodynamics.
78	251	Akant Kumar Singh*, Siddhartha, Prashant Kumar Singh	Department of Mechanical Engineering, National Institute of Technology Hamirpur (HP), 177005, India	Noise Emission from ABS, POM and HDPE Spur Gears - A Comparative Study
79	252	O.S. FATOBA; R. GHAREHBAGHI; E.T. AKINLABI; S.A. AKINLABI	Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.	Numerical Investigation of Laser Deposited Al-Based Coatings on Ti-6Al-4V Alloy.
80	255	Zakir Hussain, Rakesh Kumar	Department of Chemical Engineering, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, Uttar Pradesh and 229304, India.	Esterification of free fatty acids in karanja oil using novel corncob derived solid acid catalyst
81	256	Pradipta Kumar Jena , K Siva kumar, R K Mandal, A K Singh	Defence Metallurgical Research Laboratory, Hyderabad-500058,India	An experimental study on the ballistic behavior of AA 7017 alloy plates at room temperature and at -40°C temperature
82	259	Abhinaba Roy , Narendranath S.	Research Scholar, Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, 575 025, India	Effect of spark gap voltage and wire electrode feed rate on machined surface morphology during Wire EDM process
83	260	Ashok Kumar Sahoo , Amlana Panda, Ramanuj Kumar, Rabin Kumar Das, Diptikanta Das	Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar-24, Odisha, India	Investigation on machinability characteristics during turning Al6063 alloy using uncoated carbide insert
84	261	Rahul A. Patil, Umesh B. Deshannavar	D. Y. Patil College of Engg and Tech., Kasaba Bawada, Kolhapur 416006, India	To Study the Effect of Mechanical Comminution on Lignin Percentage and Calorific Value of Dry Sugar Cane Leaves
85	263	Vipul Damale, Kashinath Patil	Department of Mechanical Engineering K. J. Somaiya College of Engineering, Mumbai-400077, INDIA	Experimental Analysis of Turmeric Drying Process
86	264	Love Kerni, Ankush Raina , Mir Irfan Ul Haq	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra,182320, India.	Performance evaluation of aluminium alloys for piston and cylinder applications

87	265	P.A.Satyanarayana, Ravi Kanth Oletib, Swarna Uppalapatic, Sridevi Vd	PhD Scholar, satyadynamite@gmail.com, Department of Chemical Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India.	A Comparative Study of High Free Fatty Acid Used Cooking Oil and Mustard Oil for Biodiesel Production: Engine Performance
88	266	Rajat Sharma, Ayush Gupta, Gopal Nandan, , Gaurav Dwivedi, Satish Kumar	ME department, Amity University, Uttar Pradesh, Noida, India	Cooling of Solar Photovoltaic cell to enhance overall efficiency using Water: A review
89	267	P.Neelima Reddi,Bejawada Surendra,Punugoti Thanusha and Dr.Meena Vangalapati	Department of Chemical Engineering, Andhra University, Visakhapatnam, AP, India.	Optimisation For Photocatalytic Degradation Of Malathion By Box–Behnken Design.
90	270	Apoorv Choudhary, Milind Malik, Sachin Tiwari, Urvashi Sharma,Deepak Pal, Ajay Kumar	School of Engineering, Gautam Buddha University, Greater Noida 201312, India	Effect of acid attack on replacement of Fine aggregate by crumb Tyre rubber and replacement of Cement by Alccofine
91	271	K .Satyanarayana*1, P.V. J Mohan Rao2 , I.N.Niranjan Kumar 2 , V.V.S. Prasad 2 T.V. Hanumantha Rao1	ANITS, Mechanical Engineering, Sangivalasa Bhimili , Visakhapatnam - 531162, India	Some Studies On Stress Analysis Of A Sundry Variable Compression Ratio Diesel Engine Piston
92	272	Dhaval Makwana, P.P.Bhingole	Mechanical Engineering Department, Institute of Infrastructure Technology Research and Management, Ahmedabad-380026, India	Electrochemical and Plasma Surface Modification of Magnesium and its Alloy: Review
93	273	S K BasantiaV Singh, A Bhattacharya, N Khutiaa, D Das	Department of Aerospace Engineering and Applied Mechanics,IEST Shibpur-711103,India	Prediction of Tensile Behaviour of FM Dual Phase Steel using Real Microstructure-based RVE Simulations
94	274	Zakir Hussain, Rakesh Kumar	Department of Chemical Engineering, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi-229304, Uttar Pradesh, India.	Kinetics & Simulation of Non-catalytic Esterification
95	276	S.T. Azeez,* , E.T. Akinlabi , S.V. Kailas, S.D. Brandi	Department of Mechanical Engineering Science, University of Johannesburg, Kingsway Campus, Johannesburg, 2006, South Africa.	Microstructural properties of a dissimilar friction stir welded thick aluminum aa6082-t6 and aa7075-t6 alloy.
96	277	S.T. Azeeza,* , E.T. Akinlabia	Department of Mechanical Engineering Science, University of Johannesburg, Kingsway Campus, Johannesburg, 2006, South Africa.	Effect of processing parameters on microhardness and microstructure of a double-sided dissimilar friction stir welded aa6082-t6 and aa7075-t6 aluminum alloy.

97	280	Zarghaam Haider Rizvi,*, Shradha Panda , Mohammad Arsalan Khan , Frank Wuttke	Geomechanics and Geotechnics, Kiel University, Germany	Improvement of Fracture toughness of soil with ZnO tetrapod
98	281	Prashant S. Patil , Pooja B. Patil, Murlidhar N. Gurav, Ramesh S. Sankpal	Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra. India	Experimental Investigation of Static & Dynamic loading conditions for CLARE Composite Material
99	282	O.S. Fatoba; E.T. Akinlabi;M.E. Makahtha	Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.	Effects of Cooling Rate and Silicon Content on Microstructure and Mechanical Properties of Laser Deposited Ti-6Al-4V Alloy.
100	286	N.Lokesh,B.Manoj, K.Srikanth,P.Varun kumar P.K.V.Ramanayya,Dr M.Venkateswara Rao	Students,Department of mechanical Engg,Bapatla Engineering college,Bapatla.	Mechanical Characterization of Stir Cast Al 6063 TiO <sub>2</sub> -Cu Reinforced Hybrid Metal Matrix Composites
101	287	Litesh V. Malade, Umesh B. Deshannavar	D. Y. Patil College of Engg and Tech., Kasaba Bawada, Kolhapur 416006, India	Decolorisation of Reactive Red 120 by hydrodynamic cavitation
102	289	Tilak Raj Gupta, Sarabjeet Singh, H.S. Payal	Professor, Department of Mechanical Engineering, St Soldier Institute of Engineering and Technology (PTU), Jalandhar (Pb), 144001, India	Effect of die width on spring back of electro galvanized CR4 steel during air bending
103	290	Rupali Baghel Upender Pandel	Malaviya National Institute of Technology, Jaipur- 302017, India	Manufacturing of sustainable clay bricks: utilization of mill scale and Marble slurry
104	291	Anjneya Sharma, S. K. Rajput , Shashee Kant Soni	Mechanical Engineering Department, Bundelkhand Institute of Engineering and Technology, Jhansi, 284128, India	Cyclic high temperature oxidation behaviour of bare and NiCr coated mild steel and low alloyed steel
105	292	Jagjit Singh, N K Sharma, and Satbir S Sehgal	Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab, India	Application of Small Punch Testing to Evaluate Elastic and Plastic parts of Fracture Energy of Cortical bone
106	293	S. R. Banik, N. Kalita, K. K. Gajrani, R. Kumar, M. R. Sankar	Department of Mechanical Engineering, National Institute of Technology, Silchar, Silchar-788010, India	Recent trends in laser assisted machining of ceramic materials
107	294	Rutash Mittal ,Chandan kumar, Rahul Kant Bharat Singh Rana,Manish kumar, Rajnish Kumar	Department of Mechanical Engineering, Malout Institute of Management & Information Technology, Malout, District-Muktsar Sahib 152107, Punjab, India.	FABRICATION AND CHARACTERIZATION OF WELDMENTS AISI 304 AND AISI 316 USED IN INDUSTRIAL APPLICATIONS

108	301	S Rajamanickam ,J Prasanna	Research scholar, Department of Mechanical Engineering,CEG, Anna University, Chennai 600025,India	TOPSIS on High Aspect Ratio Electric Discharge Machining (EDM) of Ti-6Al-4V using 300 µm brass rotary tube electrodes
109	304	Rupinder Singh,*, Ranvijay kumar,b, IPS Ahuja, Sandeep Grover	Production Engineering Department, Guru Nanak Dev Engineering College, Ludhiana-141006, India	Process Capability Analysis for Frictionally Welded Dissimilar Polymeric Materials
110	307	Kamal Kumar , Uma Batra	Department of Mechanical Engineering, PEC University of Technology, Chandigarh, India-160012	An Experimental Investigation on Drilling Rate and Electrode Wear Ratio for EDM Micro Drilling in Ti-6Al-7Nb
111	310	Onkar S Sahasrabudhe, D N Raut	Pillai College of Engineering, University of Mumbai,410206 India	Effect of Heat Source Positioning on Hybrid TIG-MAG Arc Welding Process
112	311	Diptikanta Das , Amit Chamagain	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, India	Cutting temperature and tool flank wear during turning aluminium matrix composite in air-water spray environment - a Taguchi approach
113	315	Diptikanta Das , Amit Chamagain, Ramesh Kumar Nayak, Bharat Chandra Routara	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, India	Multiple-response optimization for surface quality and productivity during turning Al 7075/SiCp composite in spray cooling environment
114	318	Saket Saurabh*,Tanmay Tiwari,Akash Naga, A R Dixit,Niladri Mandalb, A K Das, Amitava Mandal, Ashish Kumar Srivastava	Indian Institute of Technology (ISM) – Dhanbad, Jharkhand,826004, India	Processing of alumina ceramics by abrasive waterjet- an experimental study
115	320	Dr. D. Sai Chaitanya Kishore, , Dr. K. Prahlada Rao, Dr. S.M. Jameel Basha, Dr. B. James Prasad Rao	Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Rotarypuram, Bukkaraya Samudram, Ananthapuramu,	Investigation Of Surface Roughness In Turning of In-situ Al6061-TiC Metal Matrix Composite By Taguchi And Prediction Of Response by ANN
116	324	Jaspreet Singh, Rupinder Singh,*, Harwinder Singh	Assistant professor, School of Mechanical Engineering, Lovely Professional University, Phagwara 144411, India	Surface roughness prediction using Buckingham's Pi-theorem for SS-316L hip implant prepared as rapid investment casting
117	325	Vinay Kumar1, Amit Kumar1, Sanjay Kumar1, Dr N K Singh	Indian Institute Of Technology (ISM), Dhanbad. India	Comparative Study Of Powder Mixed Edm And Conventional Edm Using Response Surface Methodology
118	328	Shubhajit Dasa,*, M. Chandrasekaranb, S. Samantab	Department of Mechanical Engineering, NIT Arunachal Pradesh, 791112, India	Comparison of Mechanical properties of AA6061 reinforced with (SiC/B4C) micro/nano ceramic particle reinforcements

119	331	Sanjay Kumar , Amit Kumar, Vinay Kumar, N.K.Singh	Department of Mechanical Engineering, Indian Institute of Technology (ISM), Dhanbad, 826004, India	Study of Machining of Inconel 825 Super Alloy Using Powder Mixed EDM Process
120	332	S. Kumara , C. S. Wua,	MOE Key Lab for Liquid-Solid Structure Evolution and Materials Processing, Institute of Materials Joining, Shandong University, Jinan, 250061 China	A novel technique to join Al and Mg alloys: Ultrasonic vibration assisted linear friction stir welding
121	335	Sudhansu M. Padhy, Achintya H. Kambli , Manoj Ukamanal, Purna Chandra Mishra	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar 751024, India	Cooling mechanisms in run out table: A technical review
122	336	Shreyash Runwal*, Kathiresan G, Preethi Karthikeyan, Simhachalam Bade	VIT University, Chennai 600127, India	Numerical and Experimental Analysis of Spinning Process for Gas Spring Tube
123	339	Sharath P Ca , Rajendra Udupa Ka, Preetham Kumar G Va	Department of Metallurgical & Materials Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore – 575025, India	Effect of Multi Directional Forging on Impression Creep Behavior of Zn-24Al-2Cu Alloy
124	342	Fariborz Faraji, Seyed Ebrahim Vahdat	Naghsh Jahan Esfahan School University, Esfahan, Iran	Effect of Deep Cryogenic Treatment on Precipitation Hardening of Aluminium 2024 and 7075
125	348	K. Karun Kumar, Dr. Ajay Kumar Kaviti , Dr. N. Kiran Kumar	PG Student, Department of ME, VNR Vignana Jyothi Institute of Engineering and Technology, Nizampet, Hyderabad 500090, India	Experimental Investigation of Friction Stir Welded AA5052 using Square and Pentagonal Tool Pins
126	352	D B A Sagar, B Vikas, B Saha, N Narasaiah, P Jayapal, G D J Ramd & M S K Rao	RCMA(Materials), CEMILAC, DRDO, Hyderabad, Telangana, India, bNIT-Warangal, Telangana, India,	Study of Microstructure and Mechanical properties of Friction Welded Metastable Beta Titanium Alloy Titan 1023
127	501	D.Ravi, Samson yohannes, Somanath.B, Kante Mallikarjuna Rao, L. Ranganath, B.Koteswararao	Assistant professor, CBIT, Hyderabad, India-500071,	Experimental testing of thermal house for different weather conditions in Bale robe
128	504	Saumyaranjan Sahoo ,Sudhir Yadav	School of Petroleum Management, Pandit Deendayal Petroleum University, Gandhinagar -382007, India	Analyzing Lean Manufacturing Performance: A Survey Study in India

129	507	Anandhu B Krishna, Harikrishnan K R, Sreerag S R, Sivaselvi K	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India	Design and Structural analysis of supporting structure for Banana fibre caking machine in sanitary pads manufacturing
130	508	Ravi Shankar Rai, Dr. S.C.Jayswal	Guest Faculty, Mechanical Engineering Department, Madan Mohan Malaviya Univdersity of Technology Gorakhpur, U.P, India	Meta-Heuristics from Nature For The Loop Layout Design Problem in Flexible Manufacturing System
131	513	Goutam Mondal, B. Surekha*, Suvan Dev Choudhury	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar, Odisha, India-751024	Investigation on the influence of different Powder mixed Dielectric in Electric discharge Machining
132	517	A. Perveen, , M.P. Jahan	Nazarbayev University, 53 Kabanby Batyr, Astana 10000, Kazakhstan	Modeling and optimization of crater size generated during micro- EDM of Ti alloy using Response surface method
133	520	Rajat Gupta, Himanshu Bisaria, *Pragya Shandilya	Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Allahabad 211004, India	Effect of Process parameters on Performance Characteristics of Inconel-825 in Wire Electric Discharge Machining
134	521	Priyadarshi Tapas Ranjan Swaina, , Sankar Narayan Dasb, Shakti Prakash Jenab	Department of Mechanical Engineering, Veer Surendra Sai University of Technology, Burla, Sambalpur-768018, India	Manufacturing and Study of Thermo-Mechanical Behaviour of Surface Modified Date Palm Leaf/Glass Fiber Reinforced Hybrid Composite
135	522	Rahul Priyadarshia, Srikanta Routroyb	Research Scholar, Mechanical Engineering Department, Birla Institute of Technology & Science Pilani	Vertical integration level selection for value addition of herbal products: A farmer's perspective
136	526	Arun Kumar, Dr. Harish Kumar, Lovepreet Singh	Department of Mechanical Engg, Chandigarh University, Gharuan, Punjab,140301,India	Machining and surface finishing of Inconel-718 -A Review
137	530	Rasheedat M. Mahamood, Esther T. Akinlabi*	Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park, Kingsway Campus, Johannesburg, 2006, South Africa	Heat affected zone Relationship with processing parameter in Additive Manufacturing Process
138	533	Kamlesh Kumar Singh, Gurprit Singh , Ramesh Chandra Panda	School of Mechanical Engineering Lingaya's University, Faridabad, 121002, Indian.	Investigation on bead profile of Austenitic stainless steel (SS-304) under the influence of magnetically assisted by micro plasma arc welding process

139	534	M. Vishnu Vardhan , G.Sankaraiah, M.Yohan	Research scholar, Mechanical Engineering, JNTUA college of Engineering, JNTUA, Anantapur.	Prediction of Surface roughness & Material Removal Rate for machining of P20 Steel in CNC milling using Artificial Neural Networks
140	538	Sachin B, Narendranath S, D Chakradhar	Department of Mechanical Engineering, National Institute of Technology, Karnataka, Surathkal, India	Effect of Cryogenic Diamond Burnishing on Residual Stress and Microhardness of 17-4 PH Stainless Steel
141	539	Suvan Dev Choudhury, Neelabh Jyoti Saharia, B. Surekha*, Goutam Mondal	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar, Odisha, India - 751024	Study on the Influence of Hybridized Powder Mixed Dielectric in Electric Discharge Machining of Alloy Steels
142	543	Charitha M Rao, Shrikantha S Rao, Mervin A Herbert	Department of Mechanical Engineering, National Institute of Technology, Karnataka, Surathkal, India	Influence of Modified Cutting Inserts in Machining of Ti-6Al-4V Alloy Using PCD Insert
143	549	Durga Prasad , S.C. Jayswal	Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur-273010 (U.P.), India	Scheduling in reconfigurable manufacturing system for uncertainty in decision variables
144	550	Kazeem O. Sanusi, and Esther T. Akinlabi	The Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg 2006, South Africa.	Experimental investigation of magnesium alloy processed by friction stir process using stainless steel powder as matrix composite.
145	552	Ramanuj Kumar, Ashok Kumar Sahoo, Purna Chandra Mishra, Rabin Kumar Das, Soumik Roy	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, Odisha, India	ANN Modeling of Cutting Performances in Spray Cooling Assisted Hard Turning
146	556	Evenmore Myllem , K.M. Pandey, B.V.R.Reddy	Department of Mechanical Engineering, National institute of technology, Silchar, Assam, India-788010	Flexible Manufacturing Systems (Fms)-A Review
147	557	Adebola Adeyemi, Esther T. Akinlabi, Rasheedat M. Mahamood,*	Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park, Kingsway Campus, Johannesburg, 2006, South Africa	Powder Bed Based Laser Additive Manufacturing Process of Stainless Steel: A Review
148	561	Adebola Adeyemi, Esther T. Akinlabi, Rasheedat M. Mahamood,*	Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park, Kingsway Campus, Johannesburg, 2006, South Africa	Laser Additive Manufacturing Process of Stainless Steel and Stainless Steel Composite: A Review

149	564	K. Aruna Prabha, Prasad Kumar Putha, Dr. Balla Srinivasa Prasad	VNR, Vignana Jyothi Institute of Engineering and Technology, Bachupally, Hyderabad and 5000072, India	Effect of Tool Rotational Speed on Mechanical Properties Of Aluminium Alloy 5083 Weldments in Friction Stir Welding
150	567	Mayur Vispute, Narendra Kumar, Prashant K. Jain , Puneet Tandon and Pulak M. Pandey	PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, MP, INDIA 2Indian Institute of Technology, Delhi, New Delhi, INDIA	Shrinkage Compensation Study for Performing Machining on Additive Manufactured Parts
151	568	Sujeet Kumar Chaubey , Neelesh Kumar Jain	Research Scholar, Indian Institute of Technology Indore, Khandwa Road, Indore (MP) 453552, India	Exploring WSEM process for manufacturing meso helical and bevel gears
152	571	Ameikav Sharma*, Amit Kumar Sinha	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir, India-182320	Rotary electric discharge machining of AISI D2 tool steel: present and future scope
153	574	Deepak Singhal, Sushanta Tripathy, Sarat Kumar Jena	School of mechanical engineering, KIIT university, Bhubaneswar-751024, Odisha, India	DEMATEL approach for analyzing the critical factors in remanufacturing process
154	579	Urvashi Sharma, Shabana Urooj*, Ajay Kumar	School of Engineering, Gautam Buddha University, Greater Noida, Uttar Pradesh, 201312, India	Investigation of In GaAs sub-cell to In GaP sub-cell in InGaP/InGaAs/Ge multijunction solar cells with Analytical framework
155	583	Sibabrata Mondal , Dipankar Bose	SAMEER Kolkata Centre, JC-30, Sec-III, Salt lake, Kolkata, 700106, India	Micro Machining Aspect of Electrolytic Tough Pitch Copper by Wire Electrical Discharge Turning process
156	584	D.Muruganandam ,J.Jayapriya,S.Suraj	Department of Mechanical Engineering, Jeppiaar Institute of Technology, Chennai, India	Experiential Investigations On The Temperature Contours Of Different Zones In Friction Stir Welded Plates Of Aa6061 And Az61
157	585	Vincent Musonda, Esther T. Akinlabi	Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park Kingsway Campus, Johannesburg, 2006, South Africa.	Standard requirements of hot rolled thermo-mechanically treated reinforcement bars
158	588	Mayur M. Patel , Dr. Divyangkumar D. Patel, Hardik R. Dodiya, Dr. D. I. Lalwani	Department of Mechanical Engineering, Sardar Vallabhbhai Patel Institute of Technology, Vasad, 388306, India	Investigating the effect of shape, orientation and position of an island on spiral tool path
159	589	Shivani S. Patel*, Dr. Divyangkumar D. Patel, Dr. Sekar Saladi	Department of Mechanical Engineering, Sardar Vallabhbhai Patel Institute of Technology, Vasad, 388306, India	Comparative study of zigzag and spiral tool path on sculpture surfaces

160	594	Mukuna Patrick Mubiayi , Esther Titilayo Akinlabi and Mamookho Elizabeth Makhatha	Department of Mechanical Engineering Science, University of Johannesburg, Kingsway Campus, Auckland Park, Johannesburg, South Africa, 2006	Current state of friction stir spot welding between aluminium and copper
161	599	Amlana Panda, Ashok Kumar Sahoo , Isham Panigrahi, Ramanuj Kumar	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, 751024, Odisha, India	Tool condition monitoring during hard turning of AISI 52100 Steel: A case study
162	603	O.S. Fatoba*; S.A. Akinlabi; E.T.Akinlabi	Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.	Laser Metal Deposition Influence on the Mechanical Properties of Steels and Stainless Steel Composites: A Review
163	610	Shiba Narayan Sahu,Narayan Chandra Nayak	Department of Mechanical Engineering, Utkal University, Bhubaneswar-751004, Odisha,India	Multi-criteria decision making with PCA in EDM of A2 tool steel
164	614	Shagil Akhtar , Mohammad Saad	Department of Mechanical Engineering, Integral University Kursi Road, Lucknow, Uttar Pradesh 226021, India	Recent Advancements in Powder Metallurgy: A Review
165	615	Sudhansu Mohan Padhy, Purna Chandra Mishra, , Ruby Mishra	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar-24, India	Nozzle positioning for ultra-fast cooling of steel strips in a run out table
166	619	Soumikh Roy, Ramanuj Kumar*, Anurag, Amlana Panda, Rabin Kumar Das	School of Mechanical Engineering, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar, Odisha, India	A Brief Review on Machining of Inconel 718
167	624	Kushagra Tiwari, Santosh Kumar, S.K. Dhakad	Assistant Professor, Department of Mechanical Engineering, JEC Jabalpur, 482011 ,India	Analysis of the factors affecting the dimensional accuracy of 3D printed products
168	626	Ekansh Chaturvedi, Dr. R.K Dwivedi	Maulana Azad National Institute of Technology, Bhopal 462003, India	Review of various designs and material research studies of muzzle brakes with a proposal of an improved design
169	633	Chitkarnvir Singh, Harmesh Kumar, Rajesh Kuma	Department of Mechanical Engineering, U.I.E.T, Panjab University, Chandigarh, 160014	Research on the Diffusion of Ti-Based Stabilizer through Flux Coated GTAW to Reduce Carbide Precipitation in SS304 Weldment
170	637	Dr.Kancha Sammaiah Dr. Banoth Balunaik Prof. D. V. Srikanth	Professor, Department. of Mechanical Engineering, St.Martin's Engineering College, Dhulapally Secunderabad	Evaluation of Tension - Shear Stress for zig -zag spot welds by using indirect resistance spot weld technique for fabrication industries

171	640	Amit khare, Sandeep Kumar Dwivedi, Dr.Manish Vishwakarma, Dr.Siraj Ahmed	Ph.d scholar,Mechanical Engineering Department, Manit, Bhopal 462003, India	Experimental Investigation of Hydrogen Embrittlement during Coating Process and Effect on Mechanical Properties of High Strength Steel used for Fasteners
172	701	Mahesh Ingalagi ,K M Akkoli, R K Chitgopkar, S A Alur	Hirasugar Institute of Technology, Nidasoshi, India,591236	Influence of Multiple Vortex Generators on the Hydraulic Performance for Air Flow through a Rectangular Duct
173	703	Aazim Shafi Lone, Azher Jameel, G. A. Harmain	Research Scholar, Department of Mechanical Engineering, National Institute of Technology Srinagar, 190006, India	A coupled finite element-element free Galerkin approach for modeling frictional contact in engineering components
174	709	Ramesh Kumar Nayak	School of Mechanical Engineering KIIT University, Bhubaneswar, India	Effect of Ledge Shape on Temperature and Current Distribution of Hall-Heroult Cell: Modeling and Simulation
175	711	Pankaj Kumar Gupta , R. K. Srivastava	Research Scholar, Mechanical Engineering Department, MNNIT Allahabad 211004, India.	Fabrication of Ceramic Reinforcement Aluminium and Its Alloys Metal Matrix Composite Materials: A Review
176	712	Nitesh.S.Hirulkara*, Pankaj.R.Jaiswalb, Pirondi AlessandroC Loucas Papadakisd	Sinhgad Institute of Technology, Department of Mechanical Engineering, Lonavala, Pune, India	Influence of Mechanical surface treatment on the strength of mixed adhesive joint
177	715	Marrapu Bhargava , Preethi Karthikeyan, Krishna Srinivas	Tube Investments of India, Corporate Technology Centre, Avadi, Chennai-600054, India	Enhancement of the ductility of Hot Rolled Skin Pass (HRSP) SPFH590 steel by annealing
178	720	J. Kandasmya J Sairama M Manzoor Hussainb	MED, MVSREC, Nadergul, Hyderabad	Comparative Analysis of Temperature Variation in Friction Stir Welding
179	721	Showkat Ahmad Kantha , G. A. Harmainb, Azher Jameelc	Research Scholar, Department of Mechanical Engineering, National Institute of Technology Srinagar, 190006, India	Modeling of Nonlinear Crack Growth in Steel and Aluminum Alloys by the Element Free Galerkin Method
180	726	R.P.Nimbalkar a, R.D. Khonde b , S.A. Tarsekar c	Assistant Professor, Department of Chemical Engineering, Priyadarshini Institute of Engineering & Technology, Nagpur-440019, INDIA	Modeling of Two-Phase Down-Flow Jet Loop Reactor for Overall Gas Holdup
181	730	V.C.Bharath Sabarisha ,G.Ramesh Kumara ,S.Gokul Rajb,A.Durairajanc	Departement of Physics, University College Of Engineering Arni -Thatchur 632 326	Growth and Characterization of Triglycine Sulphate Single Crystal by Sankaranaryanan–Ramasamy Method

182	731	Gunavant K. Kate , Sunil B. Thakare	PhD Scholar, D.Y.Patil Institute of Technology, Pimpri, Pune, 411018, India	Compressive Strength of Sustainable High Strength-High Volume Fly Ash (Class C) Concrete by Taguchi Method
183	734	Pallab Kundu, S.Sukumar,S.P.Kar	M.Tech Scholar, KIIT Univeristy,Bhubaneshwar, Odisha,India	Numerical modelling for freezing and cryogenic preservation for viability of biological tissue
184	738	Y Sandeep Kumar*, Dr Rajeswara Rao KVS, Dr Sunil R Yalamalle Dr S M Venugopal Dr Sandeep Krishna	PhD Research Scholar (VTU Belagavi), Department of IEM, RV College of Engineering, Banglore - 560059	Applications of 3 D printing in TKR Pre surgical planning for Design Optimization – A Case Study
185	741	Arun Pratap Singh Kushwah*, Chandra Shekhar Malvi, Dinesh Kumar Kasdekar	Department of Mechanical Engineering, Madhav Institute of Technology & Science, Gwalior-474005, (M.P) India	Determination of optimal parameters with Surface roughness characteristics of CNC side milling by grey relational analysis and principal component analysis
186	745	Rutash Mittal, Abhik Mitra, Abhishek Kumar,Amit,Ankit Kumar,Ashutosh Shukla	Dept of Mechanical Engineering, MIMIT MALOUT	Analysis of performance of X22CrMoV57 and SS410 under simulated conditions of Pelton turbine with the help of slurry erosion test rig
187	748	E. Pavithra, V.S. Senthil Kumar	Associate Professor,Department of Mechanical Engineering, Veltech Rangarajan Dr Sagunthala R & D Institute of Science and Technology,Avadi, Chennai – 600062.	Experimental Investigation and Numerical Analysis on Fatigue Life of Bellows
188	749	Vinayak N Kulkarnia,*, V. N. Gaitondea, Vasant Aiholia ,Viranna Hadimania	School of Mechanical Engineering, KLE Technological University, Hubballi-580031, Karnataka, India	Multi Performance Characteristics Optimization in Wire Electric Discharge Machining of Nitinol Superelastic Alloy
189	753	G Arun Manohar, , V Vasu, K Srikanth	Research Scholar, NIT Warangal, Warangal-506004, India	Modeling and simulation of high redundancy actuator for fault-tolerance
190	760	Rama Bhadri Raju Chekuri , Ramakotaiah K, Rajesh Siriyala	Koneru Lakshmaiah Education Foundation,Vaddeswaram, Guntur District, A.P, 522502, INDIA	A Study on Die Sinking EDM of Nimonic C-263 Super Alloy: Modelling and Optimization
191	764	S. C. Rakesh Roshana, Lavanya Kundurua, N. Yedukondalua*, and M. Sainatha	Rajiv Gandhi University of Knowledge Technologies, RGUKT Basar, 504107, India	Structure and Lattice Dynamics of Calcium Chalcogenides under High Pressure
192	765	Surya Pratap Singh , Mukul Shukla , R.K.Srivastava	Department of Material Science and Engineering, Indian Institute of Technology Kanpur, 208016, India	Lattice Modeling and CFD Simulation for Prediction of Permeability in Porous Scaffolds
193	901	Parthkumar Patel, Bhavdeep Nakum, Kumar Abhishek*, V. Rakesh Kumar, Anshuman Kumar	Department of Mechanical Engineering, IITRAM (Government of Gujarat Initiative), Ahmedabad – 380026, India	Optimization of Surface Roughness in Plasma Arc Cutting of AISID2 Steel Using TLBO

194	902	T. Ramalingam*, S. Bhaskar, K. Seshumadhav, K. Viswanath Allamraju	Scientist, Advanced system laboratory, kanchanbagh, Hyderabad. India- 500058	Optimization of process parameters in bi-directional carbon fiber composite using AWJM
195	905	Ravi Gugulothu, Narasimhulu Sanke, Naga Sarada Somanchi, Vijaya Kumar Reddy K	Research Scholar, Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, Telangana State, India	A Review on Baffles in Shell and Tube Heat Exchangers
196	906	Mulugundam Siva Suryaa, S.K. Gugulothub, A. Sridharc	Assistant professor, GITAM University, Hyderabad 502329, India	Optimization of Machining Parameters Using Anova and Grey Relation Analysis While Turning Aluminium 7075
197	909	Taniya Ghosh, Ayan Roy, Dr. Ruby Mishra, Shah Shubham Kamlesh	SME, KIIT University, Patia, Bhubaneswar, Odisha, 751024, India	Structural optimization of a CT guided robotic arm based on static analysis
198	912	Bhaskar Chandra Kandpal, Jatinder Kumar, Hari Singh	Assistant Professor, Mechanical Engineering Department, IPEC, Ghaziabad, INDIA	Optimization of electrical discharge machining AA6061/ 10 % Al <sub>2</sub> O <sub>3</sub> composite using Taguchi optimization technique
199	916	Shashank Agrawal*, Sharad Agrawal, Dinesh Kumar Kasdekar	Department of Mechanical Engineering, Madhav Institute of Technology & Science, Gwalior-474005, (M.P) India.	Optimization of MRR and Electrolyte Coating Thickness of ECM Parameters using PCA based GRA
200	920	M. Venkata Ramana* G. Krishna Mohan Rao D. Hanumantha Rao	Department of Automobile Engineering, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, India.	Multi Objective optimization of Process Parameters in Turning of Ti-6Al-4V alloy
201	921	Alok Baraa, Sarat Kumar Sahoob, Sunita Singh Naikc, Anshuman Kumar Sahud, Siba Sankar Mahapatrae	Department of Mechanical Engineering, Sundargarh Engineering College, Odisha, India	Multi response optimization of Nd:YAG Laser micro drilling characteristics of 304 Stainless Steel using desirability function approach
202	925	Dipankar Bora, Manoj Kumar, Sachin S. Gautam	Department of Mechanical Engineering, IIT Guwahati, Guwahati, Assam, India, 781 039	Ductile fracture at high velocity impact of cylindrical tubes
203	930	N. Arun Babu B. Balu naik B. Ravi	Dept of Mechanical Eng., Khammam Institute of Technology & Sciences, Khammam – 507170, India	Process Parameter optimization For Producing AA7075/WC composites by Friction stir welding
204	933	Ram Singh* Malik Shadab, Dr. R.N. Rai	PhD scholar, Department of Production Engineering, National Institute of Technology, Agartala, India	Optimization of machining parameters in conventional turning operation of Al5083/B4C composite under dry condition

205	934	M. S. Khan*, S. B. Mishra, M Ajay Kumar, Dipabrata Banerjee	Associate Professor, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar -751024, INDIA	Optimizing Surface Texture and Coating Thickness of Nickel Coated ABS-3D Parts
206	937	Umashanker Gupta, Vinayak U. Ghorapade, G.Appala Raju, Srinivas Rao Nandam	Defence Metallurgical Research laboratory, Kanchanbagh, Hyderabad, Telangana, India	Mathematical Modelling And Optimisation Of Cylindricity Form Parameter In CNC Turning Using Response Surface Methodology And Genetic Algorithm
207	940	Anshuman Kumar Sahu , Siba Sankar Mahapatra, Suman Chatterjee, Joji Thomas	Department of Mechanical Engineering, National Institute of Technology, Rourkela-769008, India	Optimization of surface roughness by MOORA method in EDM by electrode prepared via selective laser sintering process
208	943	Saurabh P. Jangam, Satish Kumar, Shruti Maheshwari	Department of Mechanical Engineering, Symbiosis Institute of Technology, Symbiosis International University, Pune, India	Literature review on analysis of various components of IC engine
209	944	Joji Thomas, ,Anshuman Kumar Sahu,S S Mahapatra	Ph D scholar NIT, Rourkela, India	Multi-objective optimization of water jet machining process using simple optimization algorithm(SOPT)
210	947	Roopa Tulasia, Rajveer Singhb ,Mohammed Irshad Alic	ME Student, Department of Mechanical Engineering, VCE, Hyderabad, 500031,India	Optimizing Surface Roughness In Turning Operation Using Taguchi Technique
211	946	Akshay k.Rane, Satish Kumar, Shruti Maheshwari	Department of Mechanical Engineering, Symbiosis Institute of Technology, Symbiosis International University, Pune, India	Literature Review on Analysis of Wheel Loader and Its Various Components
212	950	Divya Ready, Hargovind Soni and Narendranath S.	Department of Mechanical Engineering Siddaganga Institute Of Technology, Tumakuru-572103, Karnataka, India	Experimental Investigation and Optimization of WEDM process parameters for Ti50Ni48Co2 Shape Memory Alloy
213	953	Praveen Kalla, Ramji Koonan, Ravindranath P, Sudhakar I	MVGR College of Engineering (A), Vizianagaram 535005, India	Coordinate Reference Frame Technique for Robotic Planar Path Planning
214	957	Seelam Krugon, Dega Nagaraju	Dept of Mechanical Engg, Bapatla Engineering College, Bapatla-522 101, Andhra Pradesh, India	Modeling of a two echelon inventory system under trade credit with finite production rate
215	960	Manoj Kumar Hilalpure	Department of mechanical engineering, ACE engineering college, Hyderabad 501301, India	Terfenol-D actuator behavior under pre- stress and step input current
216	961	Saurabh D. Shinde, Shruti Maheshwari, Satish Kumar	Department of Mechanical Engineering, Symbiosis Institute of Technology, Symbiosis International University, Pune,	Literature review on analysis of various Components of McPherson suspension

			India	
217	965	Adil Ata Azmi, Afaque Umer, Mohd. Reyaz Ur Rahim	Department of Civil Engineering, Integral University, Lucknow (U.P.) 226026, India.	Numerical study on buckling behavior of thin-walled corrugated tubes under quasi-static axial and oblique loading
218	970	A. Mallikarjuna Rao , K. Ramji, T. Naveen Kumar	Department of Mechanical Engineering, V R Siddhartha Engineering College, Vijayawada, India	Intelligent Navigation of Mobile Robot Using Grey Wolf Colony Optimization
219	973	S. Debnath, V. Swami, G.R.K Sastry and R. N. Rai	Ph.D Scholar, Department of Production Engineering, National Institute of Technology, Agartala, 799046, India	Multi-Attribute Optimization Of Electro Discharge Machining Process Parameter Using Ahp-Moora Technique
220	976	Hiren M. Gajera, and Dr. Komal G. Dave	Ph. D. Research Scholar, C. U. Shah University, Surendrangar, Gujarat, 363020, India	Experimental investigation and optimization of direct metal laser sintering process for shrinkage rate using CL50WS material
221	980	Jatinder Kaur, Vikas Mangla, Jaspreet Singh, Sandeep Kumar, Niraj Srivastava	Terminal Ballistics Research Laboratory, Sec-30, Chandigarh-160030, India	Cladding of Stainless Steel (SS304) on Aluminium Alloy (AA1100) by Explosive Welding
222	981	Shubham Kamlesh Shah, Dr. Ruby Mishra, Siddharth Choudhury	SME, KIIT deemed to be University, Bhubaneswar, Odisha, 751024, India	Preliminary design of an 7 DOF robotic manipulator positioning biopsy needle
223	985	Manish Shukl, S.K Dhaka	Research Scholar	Optimisation of Electrical Discharge Machining of Al-LM-6/ SiC/ B4C Composite: A Grey Relational Approach
224	990	Rohit Singh1, Rashmi, Pamod Bhingole, Shwetank Avikal	Department of Mechanical Engineering, Graphic Era Hill University, Dehradun, India	Gray based Taguchi optimization for heat treated welded joint
225	991	Hargovind Soni, Narendranath S. and Ramesh M R	Department of Mechanical Engineering, National Institute of Technology Karnataka, India	Effect of machining process parameters on productivity rate and surface roughness of machined TiNiCo alloy
226	994	Anoop Kumar Shukla , Achintya Sharma, Meeta Sharma, Shivam Mishra	Amity University Uttar Pradesh Noida 201301, Indi	Performance Improvement of Simple Gas Turbine Cycle with Vapor Compression Inlet Air Cooling
227	998	O.S. FATOBA; E.T. AKINLABI; S.A. AKINLABI2; M.F. ERINOSHO	Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.	Influence of Process Parameters on the Mechanical Properties of Laser Deposited Ti-6Al-4V Alloy. Taguchi and Response Surface Model Approach

228	1105	Pankaj Charan Jena	Department of Production Engineering, Veer Surendra Sai University of Technology, Odisha, India	Fault Assessment of FRC Cracked Beam by using Neuro- Fuzzy Hybrid Technique
229	1106	Bhavesh Chaudhary, PL. Ramkumar*, Kumar Abhishek	M.Tech student, Mechanical Engineering Student, IITRAM , Ahmadabad	Material Selection for Rotational Moulding Process Using Grey Relational Analysis Approach
230	1109	Nitish Kumar,Gaurav Kumar Dhuria, Rajbir Singh	Assistant Professor, Rayat Bahra Institute Of Engineering And Nano Technology, Hoshiarpur (146104), India	Evaluation of Tensile Strength in Friction Stir Welded Aluminum alloy 6101-T6 and commercially pure Copper joints
231	1110	Sree Lakshmi, Suchismita Satapathy , Tushar Kanta Mohapatra	School of Mechanical Engineering,KIIT University,Bhubaneswar,Odisha	An experimental analysis on noise reduction by natural accoustic materials
232	1112	M.Ravichandran, A.Naveen Sait*, U.Vignesh	Department of Mechanical Engineering, Chendhuran College of Engineering and Technology, Pudukkottai-622 507, Tamil Nadu, India	Evaluation of TIG Welding Parameters of 2205 Duplex Stainless Steel Using SN Ratio and ANOVA Analysis
233	1113	Rupinder Singh,*, Ranvijay kumar,, IPS Ahuja, Sandeep Grover	Production Engineering Department, Guru Nanak Dev Engineering College, Ludhiana-141006, India	Process Capability Analysis for Frictionally Welded Dissimilar Polymeric Materials
234	1116	D Sathish, M Veeramanikandan	ssistant Professor, Mechanical Department, Sri Ramakrishna Institute of Technology, Coimbatore, India	Effects of Welding Parameters on Friction Stir Welding of AA6063 and Copper
235	1119	Madhumita Mohantya,Shreyas Bhattacharya, Shyamvant Yadav,	KIIT University, School of Mechanical Engineering, Bhubaneswar-751024,India	Free vibration analysis of a two-layer elastic beam resting on a variable Pasternak foundation
236	1120	Madhusmita Pradhand	Manager, Bevconwayors limited, Hydearaba, India.	Investigation of Velocity ratios on Mechanical and Microstructural Characterization of Friction Stir Welded Dissimilar 2024 and 7075 Aluminium Alloy
237	1129	Sanjeev Kumar, Khushbu Yadav, Gaurav Dwivedi	Department of Mechanical Engineering, Amity University, Noida 201301, India	Impact analysis of Oxidation Stability for Biodiesel & its Blends
238	1133	Rahul Sharma, Dilip Kumar*, Gaurav Dwivedi	Department of Mechanical & Automation Engineering, Amity University, Noida 201301, India	Analysis of higher alcohol fuel blends for I C engine
239	1134	Nitin Dabas*,Vinay Dubey ,Gaurav Dwivedi,	Department of Mechanical & Automation Engineering, Amity University, Noida 201301, India	Performance Analysis of an IC Engine using methanol, Ethanol and its blend with gasoline and diesel as a fuel

240	1137	Ayan Roy, Taniya Ghosh, Dr. Ruby Mishra, Shah Shubham Kamlesh	SME,KIIT University, Patia, Bhubaneswar, 751024, India	Dynamic FEA analysis and optimization of a robotic arm for CT image guided procedures
241	1140	Deepak, Gaurav Dwivedi	Department of Mechanical and Automation Engineering, Amity School of Engineering Amity University	Analysis of Hydrogen production
242	1141	Pulla Sammaiah, B. Vineetha , A. Suresh , Ch.Sushanth, N.Sudheer Kumar	M.Tech (15K41D301), Department of Mechanical Engineering, SR Engineering Collage, Warangal, Telangana-560371.	Analysis of MgO Nano Particles and Its Deposition on Steel by Cold Spray Process
243	1142	S.Kirthana , Mohammed Khaja Nizamuddin	Assistant professor,Department of Mechanical, VCE, Hyderabad and 500031, India	Finite Element Analysis and Topology Optimization of Engine Mounting Bracket
244	1143	Hiren M. Gajera, and Dr. Komal G. Dave	Ph. D. Research Scholar, C. U. Shah University, Surendrangar, Gujarat, 363020, India	Analysis and optimization of direct metal laser sintering process for shrinkage rate using CL50WS material-RSM approach
245	1146	Anil Shindea, Prashant Pawara, Pakija Shaikha, Sandeep Salunkhea, Dattatray Ghodakea, Avinash Parkhea	SVERI's College of Engineering, Pandharpur-413304, Maharashtra, India	Optimization of Multiple Performance Characteristics of Surface Micro-textured Journal Bearing
246	1147	Aditya Kumar Singh, Azher Jameel, G. A. Harmain	Student, Department of Mechanical Engineering, Shri Mata Vaishno Devi University,Katra,182320, India	Investigations on crack tip plastic zones by the extended iso-geometric analysis
247	1149	Ganesh D. Shelke , Anirban C. Mitra, Vinay R. Varude	P.G. Scholar, M.E.S. College of Engineering, Pune-411001, India	Validation of Simulation and Analytical Model of Nonlinear Passive Vehicle Suspension System for Quarter Car
248	1150	Vinayak N Kulkarnia,*, V. N. Gaitondea, Viranna Hadimania, Vasant Aiholia	School of Mechanical Engineering, KLE Technological University, Hubballi-580031, Karnataka, India	Analysis of Wire EDM Process Parameters in Machining of NiTi Superelastic Alloy
249	1151	Sudipta Chand, P.Chandrasekhar , Saranjit Singh	KIIT University, Bhubaneswar, Odisha, India, 751024	Analysis of Dynamic Effects during Rotary Forging of Cylindrical Sintered Preforms
250	1154	Sanjib Jaypuriaa, Vikas Sheokandb, Dilip Kumar Pratiharc* and M.N. Jhad	Mechanical Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur-721302, India	Finite Element Analysis to Determine Residual Stress in Electron Beam Welding of CuCrZr alloy Plates and Experimental Validation
251	1155	Parvatini Sri Naga Venkat	Assistant Professor, K.L.University, Vaddeswaram, Guntur, India	Dynamic Vibrational Analysis on Areca Sheath fibre reinforced bio composites by Fast Fourier Analysis

252	1159	R. Rohith Renisha, Arun Pranesh Mb,*, K. Logesha	Assistant Professor, Department of Mechanical Engineering, Veltech Dr.RR & Dr.SR University, Chennai, India.	Design and analysis of a portable friction stir welding machine
253	1160	Davinder Singha, , Navneet Singha, R K Awasthia	Beant College of Engineering and Technology, Gurdaspur 143521, India	Effect of surface texture parameters on the performance of finite slider bearing
254	1164	Mohit Saxenaa, M. K. Guptaa	Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004, India	Hybrid Mango/Shorea Robusta Wood Reinforced Epoxy Composite:Crystalline behavior and Dynamic Mechanical Analysis
255	1165	Abhinav Sharma,Chinmaya.P Mohanty ,Krunal Pardasani	School of Mechanical Engineering & Building Sciences,VIT University,Vellore, India 63014	Finite Element Analysis of Cryogenically Treated EDM
256	1169	Kiran Bhole, Vinit Sonavane	SardarPatel college of Engineering,Andheri(West),Mumbai 400058,India.	Parameter Based Method for Three Arm Spiral Shaped Flexural Bearing
257	1172	Nikhil Lotake, Kashinath Patil	Department of Mechanical Engineering K. J. Somaiya College of Engineering, Mumbai-400077, INDIA	Study of Effect of Various Parameters on Desalination process:
258	1178	Mohammad Arsalan Khana,	Department of Civil Engineering, Z. H. College of Engg. & Tech., Aligarh Muslim University, Aligarh, Uttar Pradesh, India. Pin code – 202002	Effect of Material and Geometrical Parameters on Peeling Rip-off Failure – Numerical Study
259	1180	Prashant Thakre, Alok Singh Chauhan*, A Satyanarayanaa,Raj Kumar E, R Pradyumna	Defence Metallurgical Research Laboratory, Kanchanbagh Hyderabad 500058 INDIA	Estimation of Shrinkage & Distortion in Wax Injection using Moldex3D Simulation
260	1183	Gourab Mohanty, Goutam Mondal, B. Surekha* S.Tripathy	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar, Odisha, India - 751024	Experimental Investigations on Graphite Mixed Electric discharge Machining of En-19 Alloy Steel
261	1187	V V K Lakshmi, K.Venkata Subbaiah, B.Surendra Babu	Department of Industrial Engineering, Assistant Professor , GITAM , Visakhapatnam 45 AP,India.	Effect of Hydrated Mg-Al-silicate Ceramic Particle on Microstructure and Compressive Properties of Al6063 MMC
262	1190	Mohd. Reyaz Ur Rahima, Prem Kumar Bhartia, Adil Ata Azmib, Afaq Umera	Department of Mechanical Engineering, Integral University, Lucknow, Uttar Pradesh, India	Axial crushing comparison of sinusoidal thin-walled corrugated tubes

263	1191	Sudheer Kumar Battula*, Rama Murty Raju.P, Ratnam.CH	Department of Mechanical Engineering, LakiReddy BaliReddy College of Engineering JNTUK, Mylavaram Vijayawada Krishna District, India	Shock and vibration Prevention Using Angular Mounts with Different Types of Oil Based Elastomers
264	1194	Pulkit solanki,Dr.Ajay Kumar Kaviti	Department of Mechanical Engineering, Sagar institute of science and technology,Indore 452020,India	Design and computational Analysis of Semi-Elliptical and Parabolic Leaf Spring
265	1195	A.P.Venkatesh, N.Murugu Nachippan, M.Muniyappan	Department of Automobile Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamil Nadu, India-600062	Modelling and Analysis of Piezoelectric Microgripper for Unmanned Aerial Vehicle
266	1199	Shaik Mukthiyara Dittakivi Raghu Sarathb Bojedla Vinod KumarcAaditya Madabhushid	Velagapudi Ramakrishna Siddhartha Engineering College,D.no.:41-28/3-42 Chand Street Krishna Lanka Vijayawada 520013 INDIA	Design and CFD Analysis of R410a Refrigerant in Convergent Nozzle
267	1200	Akshay Walale, Alok Singh Chauhan*, A Satyanarayana,Venkatachalam G., R Pradyumna	Defence Metallurgical Research Laboratory, Kanchanbagh Hyderabad 500058 INDIA	Analysis of Shrinkage & Warpage in Ceramic Injection Molding of HPT Vane Leading Edge Core of a Gas Turbine Casting
268	1201	Hirenkumar.I.Joshi,*, Ghanshyam.D.Acharya	Research Scholar, Kadi Sarva Viswavidyalaya, Gandhinagar, 388120, India	Numerical Investigation of Design Parameters Influence on Stress Distributions in Horizontal Multi-saddle Cylindrical Pressure Vessel
269	1202	N Pradhan , S K Sarangi	Department of Civil Engineering, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, India	Analysis of functionally graded beams subjected to Thermo-mechanical loading using finite element method
270	1207	K .Satyanarayana, I .Niranjana Kumar , P.V. J Mohan Rao,V.V.S. Prasad,T.V. Hanumantha Rao	ANITS, Mechanical Engineering, Sangivalasa Bhimili , Visakhapatnam - 531162, India	Response optimization of four stroke variable compression ratio diesel engine cylinder head with stress analysis
271	1210	Mahammad Babar Pasha, Ravi Ranjan Kumar and K. M. Pandey	Department of Mechanical Engineering NIT Silchar, Silchar, Assam (India)	Reverse Engineering and Its Applications in Mechanical and Medical Field: A Review

272	1211	Amrit Agney, Suraj Singh, Srinivas G	Under Graduate Students, B.Tech (Aeronautical Engg), Manipal Institute of Technology, Manipal, Karnataka – India. Pin 576104	Structural and Fluid Flow Analysis of Subsonic Aircraft jet Engine Centrifugal Compressor
273	1215	Mukesh Prakash Mishra, A. K. Sahania, Sunil Chandel, Bhawesh Negi	Instruments Research and Development Establishment, Raipur Road, Dehradun-248008, India	Enhancement of full coverage film cooling performance with opposite injection holes
274	1216	Dipesh B Trivedi, Ankit Kumar, Suhas S Joshi	Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai 400076, India	Surface integrity analysis in Heat Sink-based Dry Drilling of Titanium Alloy
275	1217	Tribhuvan Kishore Mishra , Arbind Kumar , S K Sinha Satpal Sharma	Department of Mechanical Engineering, BIT, Mesra Ranchi, Jharkhand- 835215, India	Investigation of Sliding Wear Behaviour of HVOF Carbide Coating
276	1220	Veeranaath.V	Assistant Professor, Department of Mechanical Engineering, SRM University, Kanchipuram District, Tamilnadu, India	Experimental Investigation of Process Parameters in Orthogonal Machining of Ti6Al4V with TiC Coated PCBN Inserts – A Finite Element Analysis
277	1221	Sudheer Kumar Battula*, Rama Murty Raju.P ,Ratnam.CH	Department of Mechanical Engineering, LakiReddy BaliReddy College of Engineering JNTUK, Mylavaram Vijayawada Krishna District, India	Engine Isolation Angular Mount With Different Types Elastomers
278	1225	Lanka Ramesh, Putti Srinivasa Rao	Mechanical Engineering Department, Gudlavalleru Engineering College, Sheshadri Rao Knowledge Village, Gudlavalleru- 521356 Krishna District, Andhra Pradesh ,INDIA	Damage Detection In Structural Beams Using Model Stain Ery Method And Wavelet Transform Approach
279	1228	Mohammad Saad , Shagil Akhtar	Department of Mechanical Engineering, Shri Ramswaroop Memorial College of Engineering, Tiwariganj, Lucknow, Uttar Pradesh 227105, India	Role of Simulation in Metal Forming Processes
280	1230	H. Vafaenezhad, Ali Reza Eivani , S.H. Seyedein, M.R. Aboutalebi	School of Metallurgy and Materials Engineering, Iran University of Science and Technology, Narmak, Tehran, Iran	Prediction of shear banding during hot deformation of Sn-5Sb solder alloy
281	1234	Ruan du Plooya, and Esther T. Akinlabi	Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg, Gauteng, South Africa. 2006	Analysis of laser cladding of Titanium alloy
282	1235	Shivanshu Dixit, Akash Chaudhary, R.K. Misra,	Department Of Mechanical Engineering, IIT Ropar, Ropar, 140001, India	Finite Element Analysis Of Fiber Reinforced Hybrid Composite

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283	1240	Priyanka Dhurvey , Neeraj Kumar Pathak, Sanjay Soni, Ajay Pandey	Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal, India	Aerodynamic and Structural Analysis of Ceiling Fan for Different Blade Materials
284	1241	Manoj Kumar Gupta , Mihir Parekh , Nirvesh Mehta	INSTITUTE FOR PLASMA RESEARCH,BHAT,GANDHINAGAR 382428,INDIA	Design and Analysis of Experimental Setup for Hydrogen PPM Measurement
285	1244	P. Rangacharyulu, Vivek Varma B, S Sai Saranb, I. Sudhakar	Post Graduate student of Department of Mechanical Engineering, MVGR College of Engineering(A) , Vizianagaram, India	Ballistic performance of armour grade heat treated steel using explicit dynamics
286	1246	M. Bhuyan, A. Sarmah, K.K. Gajrani, A. Pandey, T.G. Thulkar, M.R. Sankar	Department of Mechanical Engineering, Assam Engineering College, Guwahati-781013, India	State of Art on Minimum Quantity Lubrication in Grinding Process
287	1250	A Poorfarokha, HR Jafariana , Y Palizdara, AR Eivania	School of Metallurgy and Materials Engineering, Iran University of Science and Technology, Tehran, Iran	Microstructure analysis of High Al–Low Si TRIP Steel during bainitic transformation
288	1255	J. P. Dwivedi, Radha Krishna Lal*, Shравan Kumar	Department of Mechanical Engineerin Indian Institute of Technology(Banaras Hindu University),Varanasi-221005.	Residual Stress Analysis of Elliptical Cross Section bar of Linear Work-Hardening Material under Torsional Loading
289	1301	Pankaj Charan Jena, S. P. Parida and R. R. Dash	Department of Mechanical Engineering, Sri Vaishnavi College of Engineering, Srikakulam, Andhra Pradesh	Modal study of trapezoidal cantilever plate like composite beam
290	1305	Pankaj Charan Jena	Associate Professor, Department of Production Engineering, Veer Surendra Sai University of Technology, Burla, Odisha,India-768018.	Identification of Crack in SiC Composite Polymer Beam Using Vibration Signature
291	1306	Vemu Vara Prasad	UCEK,JNTUK Kakinada,Kakinada,533003,India	Experimentation on reinforced Basalt and Carbon fibres composite laminate
292	1309	V Kishan, K Prasanna Lakshmi & Aruri Devaraju	Department of Mechanical Engineering, MRCET, Hyderabad , T.S., India	Influence of SiC nano particles on Microstructure and Mechanical Properties of 6061/SiCp Aluminum alloy nano composites via Friction stir processing
293	1310	Rasheedat M. Mahamood, Sisa Pityana, Luyolo Mabhali, Monnamme Tlotleng, Esther T. Akinlabia & Kamardeen O. Abdulrahman	Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg. P. O. Box 524, Auckland Park 2006, South Africa	Laser Metal Deposition Of Titanium Aluminide Composites: A Review

294	1311	Mohit Sood , VK Gupta, Deepak	Assistant Professor,Rayat Bahra College of Engineering And Nano Technology, Hoshiarpur (146104), India	Effect of surface modification of sisal fibers on strength of Sisal/Recycled HDPE composites under three-point bending test
295	1314	Bhujanga D. P *, H. R. Manohara , Basava T	Assistant Professor, Department of Mechanical Engineering, SDM Institute of Technology, Ujire-574240, Karnataka, India	Processing and Evaluation of Mechanical Properties and Dry Sliding Wear Behavior of AA6061-B4C Composites
296	1315	Surendra Kumar Patel, Raman Nateriya, Kuriachen B, Virendra Pratap Singh	Department of Mechanical Engineering, NIT Mizoram, Aizawl-796012, India	Slurry Abrasive Wear, Microstructural And Morphological Analysis Of Titanium Carbide And Zirconium Sand Aluminium Alloy (A5052) Metal Matrix Composite
297	1318	Parul Saha, M. K. Gupta*	Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Allahabad- 211004, India	PLA Coated Sisal Fibre Reinforced Polyester Composite: Static and Dynamic Mechanical Properties
298	1321	S.Geetha, M.Selvakumar	Professor, Rajalakshmi Engineering College ,Chennai-602105, India	Graphene Oxide Admixed Aerated Concrete Composite with Carbon Fibres
299	1322	Abhijeet Nayak, Dipak Kumar Jesthi, Bharat Chandra Routara,Diptikanta Das and Ramesh Kumar Nayak	School of Mechanical Engineering, KIIT University, Bhubaneswar,751024, India	Tribological properties of glass/carbon hybrid composites through inter-ply arrangement using Response Surface Methodology
300	1326	Kamalkishor G. Maniyara, *, Dilip S. Ingoleb	Assistant Professor, MGI-COET, Shegaon(444203), Maharashtra, India	Multi response Optimization of EDM Process Parameters for Aluminium Hybrid Composites by GRA
301	1328	Sridhar G, Ananda G K, Ramesha H, Padmanabha S	Research Scholar, Department of Mechanical Engineering, BTL Institute of Technology & Management, Karnataka 560099, India	Numerical Investigation of Thermal Stability on Al- 12Si/MgOp Composites
302	1329	Tijo Da, Dipak Tanaji Wagmare, Deekshith Kaladharana, Manoj Masantaa	Department of Mechanical Engineering, National Institute of Technology Rourkela, 769008, India	Effect of TiC content on Sliding Wear Behavior of TiC-Ti Metal Matrix Composite
303	1332	Santi Swarup Mohantya, Akshya Kumar Routa, Dipak Kumar Jesthia,Bharat Chandra Routra, Ramesh Kumar Nayak	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, Odisha, India	Evaluation of mechanical and wear performance of glass/carbon fiber reinforced polymer hybrid composite
304	1333	Nitin Johri , Raghvendra Mishra, Harishchandra Thakur	School Of Engineering, Gautam Buddha University, G.Noida - 201312, Delhi NCR, India	Design parameter optimization of Jute-chicken fiber reinforced polymeric hybrid composites

305	1337	Diptikanta Das, , Vivek Chakraborty, Anil Kumar Chaubey, Ramesh Kumar Nayak	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, India	Investigation on properties of SiC reinforced Zn-Mg-Cu based Al metal matrix composites - a case study
306	1340	Lailesh Kumar, Syed Nasimul Alam, Santosh Kumar Sahoo, M. B. K. Teja	Department of Metallurgical and Materials Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, Pin-769008, India	Mechanical Properties of Cu-MWCNT Composites Developed by Powder Metallurgy Route
307	1341	C. B. Nayaka*, S. B. Thakareb	Ph.D Scholar, Dr. D. Y. Patil Vidya Pratishthan Society's Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, India	Experimental and Numerical Investigation for Strengthening of Structures Using Various Patterns of AFRP Composites
308	1345	Nitin Kumar Jaina, M. K. Guptaa	Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Allahabad - 211004, India	Dynamic Mechanical Properties of Hybrid Teak/Shorea Robusta Wood Reinforced Epoxy Composite
309	1346	K.Sudha Madhuria, Dr.H.Raghavender Raob, Dr.B.Chandramohan Reddyc	Research Scholor, JNTUA, Anantapuramu, A.P, India	Experimental investigation on the mechanical properties of Hardwickia Binata fibre reinforced polymer composites
310	1350	Mir Irfan Ul Haq , Ankush Anand	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, 182320, India	Microhardness studies on Stir Cast AA7075-Si3N4 Based Composites
311	1351	Rajesh Choudhary. a , Gagandeep Singh. b, Keshav Kumar, Prakash Bharti, Ramanuj Kumar, Vikash Kumar. c	Assistant Professor, Department of Mechanical Engineering, MIMIT Malout, Punjab, 152107, India	Investigations of electrical discharge machining of Al6061/14% wt fly-ash composite with different tool electrodes
312	1355	Sandip Langade, Nandkumar Gilke, Kashinath Patil	Department of Mechanical Engineering K. J. Somaiya College of Engineering, Mumbai-400077,	Bagasse Ash for Manufacturing Construction Products:
313	1356	Deepak Jaina,* Sandeep Vatsa Tarun Kumar Beraa	Department of Mechanical Engineering, Thapar University, Patiala 147004, India	Micromechanical interactions and their relation to stress field for different classes of reinforced polymer composites
314	1360	Sandeep Vatsa, Deepak Jaina, Tarun Kumar Beraa	Department of Mechanical Engineering, Thapar University, Patiala 147004, India	Moisture Diffusion along the Layered Fibre Matrix Composites with Different Fibre Orientations
315	1363	Nagavelly Shiva Kumar	Assistant Professor, Madanapalle Institute of technology and science, Madanapalle,	Mechanical and Wear Behavior of ZA-27/SiC/Gr Hybrid Metal Matrix Composites

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316	1366	Janaki Dehury , Alok Behera, Debasmitha Mishra , J.R. Mohanty	Department of Mechanical Engineering, Veer Surendra Sai University of Technology, Nagpur 440010, India	A comparative study of mechanical behavior of Jute-Epoxy laminated composite and its hybrid
317	1367	Nanaksharan Singh, Jugraj Singh, , Balraj Singh, Navneet Singh	Doaba Group of Colleges, Rahon, Nawanshahr, Punjab, 144514, INDIA	Wear Behavior of B4C reinforced AZ91 matrix Composite Fabricated by FSP
318	1372	Vaibhav Srivastava , Manish Gupta	Research Scholar, Department of Mechanical Engineering, M.N.N.I.T, Allahabad-211004, India	Approach to self healing in Metal matrix Composites: A review
319	1375	K.Siva Prasad, .G.Chaitanya	Assistant Professor, Department of Mechanical Engineering, V R Siddhartha Engineering College, Vijayawada-52007, India	Selection of optimal process parameters by Taguchi method for Drilling GFRP composites using Abrasive Water jet machining Technique.
320	1376	Asmita Jagdev , Bidyut Prava Jena, Bijaya Bijeta Naik, Suchismitha Satapathy	School of Mechanical Engineering, KIIT University, Bhubaneswar, Odisha	Preparation and characterization of Mechanical Properties of Epoxy Resin Composites reinforced with Non Bio-degradable Wastes
321	1379	Smita Rani Panda, Mani Bhusan Rajguru Mohapatro, Purna Chandra Mishra	Department of Mechanical Engineering, Rajdhani Engineering College, Bhubaneswar-21, India	Investigation on frictional and machining characteristics of novel ALFA composite reinforced with treated waste fly ash
322	1380	N Chella Kavitha , K Nivetha	Assistant Professor(Sr. Grade), Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, India .	Degradation Study on Sisal Fibre Reinforced Self Compacting Concrete
323	1383	Debasmitha Mishra, , Sabyasachi Mohapatra, Alok Satapathy	Assistant Professor, Department of Mechanical Engineering, VSSUT, Burla	A detailed investigation on Thermal and Micro-Structural Properties of hexagonal Boron Nitride Composites
324	1384	Sridhar Atlaa, K.Prasanna Lakshmi	Research Scholar, JNTU Hyderabad, Hyderabad, and 500085, India	Effect of Silicon carbide particulates on characterization and mechanical properties of Al 7075 metal matrix composites
325	1387	M.N. Narale, S.G. Kulkarni, J.V.Menghani, Achchhe Lal	P G student, Department of Mechanical Engineering, SKN Sinhgad College of Engineering Pandharpur-413304, India	Experimental investigation and optimization of multiple performance characteristics of Al-Mica- B4C hybrid reinforced composite in drilling operation
326	1390	Bhupesh Kumar Gupta, Dr. Kanish Kapoor	Post graduate Scholar, School of Civil Engineering, Lovely Professional University, India	To study the feasibility of coarse and fine plastic aggregates in concrete

327	1391	Pravanjan Mandal, Dipak Kumar Jesthi, Diptikant Das, Arun Kumar Routa and Ramesh Kumar Nayak	Department of Production Engineering, VSSUT, Burla, Odisha 768018, India	Three-body abrasion wear performance of glass/carbon fiber reinforced polymer hybrid composites
328	1392	Pritam Dey, Srimanta Ray	Research Scholar, Chemical Engineering Department, NIT, Agartala 799046, India.	An Overview of the Recent Trends in Manufacturing of Green Composites – Considerations and Challenges
329	1395	Mehul Patel and Sujoy Mukherjee	IIITDMJ, Dumna Airport Road, Jabalpur 482005, India	Modelling and Analysis of IPMC Based Energy Harvester
330	1399	S.Dinesh kumar, M.Ravichandran	Assistant Professor, Mechanical Engineering Department, Chendhuran College of Engineering and Technology, Pudukkottai, India.	Aluminium Metal Matrix Composite With Zirconium diboride Reinforcement : A Review
331	1400	Abinash Panigrahi, Hemalata Jena*, B.Surekha	School of Mechanical Engineering, KIIT University Bhubaneswar, India	Effect of Clams Shell in Impact Properties of Jute Epoxy Composite
332	1402	Madhusdhana H K*, Bhagyashree Desai, Dr. C S Venkatesh	Department of Mechanical, K L E Technological University, Hubballi, India	Experimental Investigation on Fracture Toughness of Hemp Reinforced Polymer Composites
333	1403	S.Madhavarao, Ch. Ramabhadri Raju, J Madhukiran, N Sudheerkumar Varma, P Ravi Varma	Assistant professor, Mechanical Department, S R K R Engineering College, Bhimavaram-534204, A.P, India	A Study of Tribological Behaviour of Aluminum-7075/SiC Metal Matrix Composite
334	1407	Rajesh Choudhary a, Gagandeep Singh b, Sahibpreet Singh, Shubham Dhanjal, Prem Singh, Sandeep Kathuria, Varinder Singh.c	Assistant Professor, Department of Mechanical Engineering, MIMIT Malout, Punjab, 152107, India	Blind hole drilling of hybrid aluminium-rice husk ash (ARHA) composite using rotary electro-discharge drilling
335	1410	B.Ramesh*, C.Mrinalini, S.Karthikeyan	Professor, Mechanical Engineering Department, Sri Muthukumaran Institute of Technology, Chennai	Study of Composite material on volume fraction using analytical Model
336	1411	Pranav Dev Srivyas, M.S. Charoo	Mechanical Engineering Department, NIT, Srinagar, HAZRATBAL, 190006, J&K, INDIA	Role Of Reinforcements On The Mechanical And Tribological Behavior Of Aluminum Metal Matrix Composites – A Review
337	1415	Pranav Dev Srivyas, M.S. Charoo	Mechanical Engineering Department, NIT, Srinagar, HAZRATBAL, 190006, J&K, INDIA	Role Of Fabrication Route On The Mechanical And Tribological Behavior Of Aluminum Metal Matrix Composites – A Review
338	1418	B.Muthu Chozha Rajan, A.SenthilKumar, T.Sornakumar	Department of Mechanical Engineering, Sethu Institute of Technology, Pulloor-626 115, Tamilnadu, India	Impact Response and Damage Characteristics of Carbon Fibre Reinforced Aluminium Laminates (CARAL) under Low Velocity Impact Tests

339	1421	Alok Behera , Manjusha M. Thawre, Atul Ballal	Department of Metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology, Nagpur 440010, India	Effect of matrix crack generation on Fatigue life of CFRP multidirectional laminates
340	1422	Netrananda Behera, Ashish B. Deoghare a,b , Krishna Murari Pandey	Department of Mechanical Engineering, NIT Silchar, Assam -788010, India.	Modeling & Simulation of Interface Stability in Metal Matrix Composites Subjected to off-axis loading using Cohesive Zone Model under Elevated Temperature: A Review
341	1425	K.M.Pandey, Bikesh Agrahari, Anirban Roy, Sanjay Krishna Daimary	Department of Mechanical Engineering, NIT Silchar, Assam -788010, India.	A comprehensive review on natural fibre reinforced composites and its variation of mechanical properties with different parameters.
342	1426	Ajith Gopinath, SenthilKumar M, Avinash Babu	Assistant Professor, Christ University, Bangalore, 560074, India,	Evaluation of Mechanical Properties and Microstructure of Polyester and Epoxy Resin Matrices Reinforced with Jute, E-glass and coconut Fiber
343	1429	Dharmeswar Dash, Sutanu Samanta , and Ram Naresh Rai	Department of Mechanical Engineering, GKCIET, Malda, West Bengal-732141, INDIA	Studies on Synthesis of Magnesium Based Metal Matrix Composites (MMCs)
344	1430	Manjula Shiv Kumar, P. Choudhary and K. M. Pandey	Department of Mechanical Engineering NIT Silchar, Silchar Assam, India	Crack Propagation and delamination of hybrid glass fibre reinforced laminated composites
345	1433	D. Vivekanandan , M. Sakthivel & S. Srinivasa Moorthy	Research Scholar, Department of Mechanical Engineering, Anna university Regional Campus, Coimbatore	Experimental Investigations on Mechanical Properties of Treated Agave Americana Natural Fiber with TiO <sub>2</sub> Particulate filled Reinforced Polyester Resin Composite
346	1438	Ajay Kumar Yadav and K.M. Pandey	Department of mechanical engineering, NIT Silchar, Assam-788010, India	Aluminium Metal Matrix Composite with Rice Husk as Reinforcement : A Review
347	1442	Navin Niraj and K.M.Pandey	Department of Mechanical Engineering, NIT Silchar, Assam, 788010	Tribological behaviour of Magnesium Metal Matrix Composites reinforced with fly ash cenosphere:
348	1443	Diptikanta Das , Vivek Chakraborty	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, India	Dry condition machining performance of T6 treated aluminium matrix composites
349	1444	Ranjan K. Behera, , , Sudhansu S. Patro, Nitin Sharma, Kamal K. Joshi	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, Odisha-751024, India	Eigenfrequency Analysis of Stiffened Laminated Composite Plates Using Finite Elements

350	1445	Sandeep Singh, Gurpreet Singh, Niraj Bala	Department of Mechanical Engineering, Punjabi University Patiala, Punjab, India	Electrophoretic deposition of bioactive glass composite coating on biomaterials and electrochemical behavior study: A review
351	1448	Sudhansu S. Patroa , Ranjan K. Beheraa, Nitin Sharmaa	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, Odisha-751024, India	Prediction of free vibration responses of orthotropic stiffened flat panels
352	1449	Mohd. Nasira, Asokan Kandasamib, and Somaditya Sena,*	Department of Physics, Indian Institute of Technology Indore, 453552, India	Investigation of Structural and Dielectric characteristics of La <sub>2</sub> Ni <sub>0.5</sub> Al <sub>0.5</sub> MnO <sub>6</sub> ceramics
353	1450	Vinay R. Varude, Ajesh A. Mathew, Ammar Y. Diwan, Nilotpal Banerjee Anirban C. Mitra,	Faculty in Mechanical Engineering, Modern Education Society's College of Engineering, Pune, India-411001	Effect of Induced Geometric Non-Linearity in a Spring on Vehicle Ride Comfort and Road Holding
354	1451	A.SasankSekharMurty, Lahari Ramya, P.D.Sai Gowtham,, Sudhakar. I	Post Graduate student of Department of Mechanical Engineering, MVGR College of Engineering(A) , Vizianagaram, India	Simulation and validation of ballistic performance of armor grade AA7075 aluminum alloy using friction stir processing
355	1455	Bellam Venkatesh, b , Rahul Singh Sikarwar	Department of Mechanical Engineering, CMR Institute of Technology, Hyderabad – 514401, Telangana, India	A Review on Drilling of Carbon Fibre Reinforced Composite Materials
356	1459	P.Chandrasekhar , Sudipta Chand, Saranjit Singh	School of Mechanical Engineering, KIIT (Deemed to be University), Bhubaneswar-751024, Odisha, India	Investigation of dynamic effects during cold upset-forging of Silicon Carbide particulate reinforced Aluminium metal matrix composite preforms
357	1460	Nabanita Banik , Shantanu Debnath, Vidyut Dey, G.R.K. Sastry	Production Engineering Department, NIT Agartala – 799046, India,	An experimental effort on the impact of hot press forming process parameters on tensile, flexural & impact properties of bamboo fiber composites with the help of Taguchi experimental design
358	1464	Shagil Akhtar, Mohammad Saad	Department of Mechanical Engineering, Integral University Kursi Road, Lucknow, Uttar Pradesh 226021, India	Overview of Current Advances in The Development of Polymer Composite in Biomedical Applications
359	1465	Mohammad Saad, Shagil Akhtar	Department of Mechanical Engineering, Shri Ramswaroop Memorial College of Engineering, Tiwariganj, Lucknow, Uttar Pradesh 227105, India	Composite Polymer in Orthopedic Implants: A Review

360	1468	Hrishikesh A. Wadkar ,Prashant S. Patil, Prithviraj B. Pujari, Vikas A. Patil, Muralidhar N. Gurav, Rahul S. Soma	Student, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra. India	Experimental Investigation on Defects in the Pan carbon Epoxy Composite Structures
361	1470	Manoj Narwariya , Achintya Chaudhary , Avadesh K. Sharma	Department of Mechanical Engineering, Sir Padampat Singhania University Bhatewar Udaipur 313 601, India	Parametric study on Harmonic Analysis of moderately thick anti-symmetric cross-ply laminated composite Plate using FEM
362	1472	Nabanita Banik , Shantanu Debnath	Production Engineering Department, NIT Agartala – 799046, India	A review on the use of thermoplastic composites and their effects in induction welding method
363	1473	Ranjan K. Behera, Pruthwiraj Sahu , T. R. Mahapatra	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, Odisha-751024, India	Tensile and Failure Behavior of Kevlar Fiber Reinforced Epoxy Matrix Composite Exposed to Different Environmental Conditions
364	1475	Narinder kaushik, Sandeep Singhal	Research Scholar, Department of Mechanical Engineering	Impact of FSW on AA6063/SiC metal matrix composites: A case study of microstructural and mechanical properties
365	1478	Rakesh Potluri , K Supriya, G.V.V.N.G. Vittal	Asst. Prof., Dept. of Mechanical Engineering, DVR & Dr HS MIC College of Technology, Krishna, India.	Effect of boron carbide particles inclusion on the mechanical behaviour of S2-Glass fiber based polyester composites
366	1481	K. Sekar , Gudla Jayachandra , S.Aravindan	Department of Mechanical Engineering, National Institute of Technology, Calicut, Kerala 673601, India	Mechanical and Welding Properties of A6082-SiC-ZrO2 Hybrid Composite Fabricated by Stir and Squeeze Casting
367	1484	K .Viswanath Allamraju	Department of Mechanical Engineering, Institute of Aeronautical Engineering, , Hyderabad-500043, India	Mechanical behaviour of nano jute filler glass fiber self healing and epoxy resin composite
368	1501	Santosh Kumar Saha, Thrinadh Jadamb, Saurav Dattab* Debabrata Dhupalc, Goutam Nandia	Department of Mechanical Engineering Jadavpur University, Kolkata 700032, INDIA	Application of SiC Power Added in Kerosene Dielectric Media for Electro-Discharge Machining of Inconel 718 Super Alloys: Effect of Powder Concentration
369	1503	Sangeeta Das,* ,C. W. Manpoong , S. S. Gautam, Abhishek Madheshiya , C. R. Gautam	Department of Mechanical Engineering, North Eastern Regional Institute of Science and Technology, Itanagar, India-791109	Tribological study of strontium bismuth titanate borosilicate glass ceramics
370	1504	Aditya Sethi, Shivangi Chopra, Kaushik Kumar	Student, Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, 835215,India	Design and Development of Hydraulic System for Rail-Road Breakdown Crane

371	1506	Rambabu Busi H.Sudhakar, B.Poornaiah, T.Satyanarayana, Y. Srinivasa Rao	Department of Electronics & Instrumentation, Lakireddy Bali reddy College of Engineering Mylavaram, A.P, India-521230	The Effect of High Voltage Impulses on PVC-Graphite Polymer Thick Film Resistors
372	1507	Apoorv Vikram Singh Bhadoriya, Vijay Kumar Gupta, and Sujoy Mukherjee	Mechatronics, IIITDM, Jabalpur, India	Development of In-pipe Inspection Robot
373	1510	D. Nayak1, S. Mishra1 , Sachin Kumar2	Mineral Processing Department, CSIR- IMMT, Bhubaneswar, India,	Investigating the reduction behavior of Nigerian titano- magnetite concentrate with coal by using Taguchi's technique
374	1513	Anirban C. Mitra*, Akshata Jagtap, Sphurti Kachare.	Modern Education Society's College of Engineering, Pune – 411001, Maharashtra, India.	Development and Validation of Experimental Setup for Flexural Formula of Cantilever Beam Using NI-LabVIEW
375	1514	Omkar Patil , Rahul Chanmanwar	P.G. Student, Walchand College of Engineering, Sangli-416416, India	Investigation on Enhancement in Photochemical Machining
376	1517	Rajbir Singha , Lakhvir Singhb, Niraj Balac	Research Scholar, Faculty of Engineering, I K G Punjab Technical University, Jalandhar,144603, India	Current challenges and future directions of micro drilling of advanced materials using micro-EDM
377	1520	V Pardha saradhia, V Shashankb, P Sai tejac, G Anbarasud, A Bharate, T Jagadeshf*	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, Kollam-690525, India	Prediction of surface roughness and material removal rate in laser assisted turning of aluminium oxide using fuzzy logic
378	1521	Nallanukala Prasad*, Dinesh Kumar H, Annamalai K , Bade Simhachalam, Krishnasrinivas	VIT University, Kelamabakkam- Vandalur road, Chennai 600127, India	STUDY AND DEVELOPMENT OF DUAL SHEAR TUBE CUTTING PROCESS
379	1525	S. Sowmiyaa , J. Anburaja , Bade Simhachalamb	Department of metallurgy , PSG College of Technology, Coimbatore-641004 , India	Development Of Metallic Aluminium Foam Casting Using Calcium Carbonate Precursors
380	1528	Uttam Acharya,*, Barnik Saha Roy, Subash Chandra Saha	Ph.D Scholar, Department of Mechanical Engineering, National Institute of Technology Agartala, Barjala, Jirania, West Tripura	A Study of Tool Wear and its Effect on the Mechanical Properties of Friction Stir Welded AA6092/17.5 Sicp Composite Material Joint
381	1530	Beenesh Maduriya , N.P Yadav	423 Chhaniya Pura, Jhansi UP-284002,	Prediction Of Solidification Behaviour Of Alloy Steel Ingot Casting
382	1535	Parthkumar Patel, P.P.Bhingole , Dhaval Makwana	M Tech student,Mechanical Engineering Department, IITRAM,, Ahmedabad - 380026, India.	Manufacturing, characterization and applications of lightweight metallic foams for structural applications: Review

383	1537	Mohana.R, Nagan.S	Assistant Professor(Sr. Grade), Department of Civil Engineering,MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu, India .	Durability of Geopolymer Ferrocement Element
384	1540	B. Swain, A. Patnaik, S. K. Bhyan, K. N. Barik, dS. K Sethi, S. Samal, S. C. Mishra, Ajit Behera	Department of Metallurgical & Materials Engineering, National Institute of Technology, Rourkela, Odisha, India	Solid particle erosion wear on plasma sprayed mild steel and copper surface
385	1544	Samiran Shanti Mukherjee*, Paresh Panchal, Jyoti Agarwal, Pratik Nayak, Jyoti Shankar Mishra, Ranjana Gangradey	Institute for Plasma Research, Gandhinagar,Gujarat, INDIA 382428	Quantitative measurement of outgassing and degassing rate for various materials used in cryogenic pumps
386	1545	Rakesh Tripathi	NIT Raipur, G.E Road, Raipur-492010, India	Teknofibra material Walker with multisensory
387	1550	Lakhibir Singh Brar	Assistant Professor, Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi-835215, India	Application of response surface methodologyto optimize the performance of cyclone separator using mathematical models and CFD simulations
388	1553	Rasheedat M. Mahamood, Esther T. Akinlabi*	Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park, Kingsway Campus, Johannesburg, 2006, South Africa	Processing Parameters Influence on Microhardness in Laser Metal Deposited Titanium Alloy using Design if Experiment
389	1555	Neelabh Jyoti Saharia, T. Sree Lakshmi, B. Surekha*, Hemalata Jena	School of Mechanical Engineering, KIIT University, Patia, Bhubaneswar, Odisha, India - 751024	Experimental Investigations on the Effect of Hybrid Aluminum and Graphite powders mixed Dielectric in EDM
390	1559	J. Jeykrishnan, B. Vijaya Ramnath, N. Chenbhaga Ram, K. Nikhil, R. Naveen Babu, D. Naveen	Asst. Prof, 2Prof, Dept. of Mechanical Engineering, Sri Sairam Engineering College, Chennai, India	Investigation on the Influence of Performance Characteristics on Machining Inconel 625 alloy in Electro-Discharge Machining (EDM)
391	1560	Rajneesh Kumar Singh, D.K. Singh and Swati Gangwar	Department of Mechanical engineering, Madan Mohan Malaviya University of Technology, Gorakhpur 273010, India	Advances in Magnetic Abrasive Finishing for Futuristic Requirements - A Review
392	1564	Fredrick MadarakaMwemaa, Oluseyi PhilipOladijob, Esther TitilayoAkinlabia	Faculty of Engineering and Built Environment, The Department of Mechanical Engineering, University of Johannesburg, Johannesburg 2006, South Africa	Effect of Substrate Temperature on Aluminium Thin Films Prepared byRF-Magnetron Sputtering

393	1569	Amol Rayate, Prashant K. Jain	PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, MP, INDIA	A Review on 4D Printing Material Composites and Their Applications
394	1701	Rajeev Arora, Pankaj Sharma, Subhash Chand	Department of Mechanical Engineering, Invertis University, Bareilly, India	AC Conductivity and Dielectric Behavior of Nano Composite Film Based on Polyaniline, Nano SnO <sub>2</sub> and PVA
395	1704	Rajeev Arora, Pankaj Sharma, Subhash Chand	Department of Mechanical Engineering, Invertis University, Bareilly, India	Polyaniline Based Nano Composite Film and Its Electrical Characteristics
396	1705	G V V S Varaprasad , K Dilip kumar	Mechanical Engineering Department ,LBRCE,India.	Procuring Magnetic Field to Liquid Channel of Nano Lubricant (CuO& PAG Oil) Rigged VCR System by Using R134a Refrigerant
397	1708	Md Zakir Hussain, Pranjal Sarmah, Sabah Khan	Research Scholar, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi-110025, India	Evaluation of Erosive Wear rate of MWCNTs/MnO <sub>2</sub> Nanocomposite using Taguchi method
398	1710	Krishnendu Bhowmik, , Pranav Kumar, Niloy Khutia and Amit Roy Chowdhury	Department of Aerospace Engineering and Applied Mechanics, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, India	Evaluation of Directional Strength of SWCNT Reinforced Nanocomposites: A Finite Element Study
399	1713	Pulla Sammaiah, V. Ashwini , A. Suresh, Ch.Sushanth, N.Sudheer Kumar	M.Tech (15K41D324), Department of Mechanical Engineering, SR Engineering Collage, Warangal, Telangana-560371.	Analysis of Al <sub>2</sub> O <sub>3</sub> Nano Particles and Its Deposition on Steel by Cold Spray Process
400	1715	K.Logesh a, M.Arulprakasajothi a,*, R.Rohith Renish a, M.Venkatasudhahar a, N.Dilip Rajaa	Department of Mechanical Engineering, Veltech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamil Nadu, India-600062	Impact of water-based TiO <sub>2</sub> nanofluid on heat transfer under transition flow
401	1716	Barada Prasanna Sahoo, Diptikanta Das	School of Mechanical Engineering, KIIT University, Bhubaneswar-751024, India	Tribological behaviour of ceramic and carbon nano-tube reinforced metal matrix composites - a review
402	1720	Aishwarya Beheraa, Manoj Masantaa	Department of Mechanical Engineering, National Institute of Technology Rourkela, Rourkela- 769 008, India	Effect of Pulse-on-time on Machining Performance during WEDM of nano-TiO <sub>2</sub> Dispersed Austenite Steel
403	1721	Nayana Krishna, Nanda Kumar.G, Neethu T S, Rini John, Sudheesh. R. Babu, Smitha Chandran.S	Department of Chemistry, Amrita School of Arts & Sciences, Amritapuri, Amrita Vishwa Vidyapeetham, Clappana PO, Kollam.690525, Kerala, India	One Pot Green Synthesis Of Silver Nanoparticles With Multiple Applications
404	1722	Sreedha Sambhudevan a and Balakrishnan Shankar	Department of Chemistry, Amrita School of Arts & Sciences, Amrita Vishwa Vidyapeetham, Amritapuri	Mechanical and Solvent Transport Properties of Nickel Ferrite Embedded Natural Rubber Nanocomposites

405	1726	R.Santhana Krishnan, M.Arulprakasajothi ,K.Logesh , N.Dilip Raja	School of Mechanical Engineering, SRM University, S.R.M. Nagar, Kattankulathur, Kancheepuram District Chennai, Tamil Nadu, India- 603203	Analysis And Feasibility Of Nano-Lubricant In Vapour Compression Refrigeration System
406	1730	Ankush Raina , Ankush Anand	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra,182320, India.	Lubrication performance of synthetic oil mixed with diamond nanoparticles: Effect of concentration
407	1734	Ravinder Tonk, Satbir Singh Sehgal, Ajay Vasishth	Department of Mechanical Engineering, Chandigarh University, Gharuan, District Mohali, Punjab-140413, INDIA	Effect Of Functionalization Of Multi Walled Carbon Nanotubes On Viscoelastic Properties Of A Mineral Base Engine Oil
408	1737	Ravinder Tonk, Ajay Vasishth, Satbir Singh Sehgal	Department of Mechanical Engineering, Chandigarh University, Gharuan, District Mohali, Punjab-140413, INDIA	Viscoelastic And Thermo-Physical Analysis Of Mineral Base Engine Oils Containing Multi Walled Carbon Nanotubes
409	1740	Tarique Khan, Mohammad Nasiruddin	Mechanical Engineering Department, Maulana Mukhtar Ahmad Nadvi Technical Camps, Malegaon, M.S- 423203	Mechanical Behaviour of Aluminium Matrix Reinforced With ZrO <sub>2</sub> Nano Particles
410	1742	Rajani Indrakanti* V.Brahmaji Rao C.Udaya Kiran	VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana, India.	Studies on Hysteresis Parameters of gallium nitride doped ferrite/Polypyrrole nanocomposites.
411	1748	Vidyarani S. Kshirsagara*, Prashant M. Pawara	Department of Civil Engineering, SVERI's College of Engineering, Pandharpur, Dist: Solapur, India-413304	Mixing Performance Improvement by Passive Modifications in an Anaerobic Digester Design
412	1752	S.Mohamed Iqbal , M.Arulprakasajothi, N.Dilip Raja,S.Monison John Bosko, M Bhanu Teja	Department of Mechanical Engineering, Veltech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamil Nadu, India- 600062	Investigation On The Thermal Behaviour Of Titanium Dioxide Nanofluid
413	1755	Ashij K. Suresh, Sahil Khurana, Gopal Nandan, , Gaurav Dwivedi, Satish Kumar	ME department Amity University, Uttar Pradesh, Noida, India	Role on nanofluids in cooling solar photovoltaic cell to enhance overall efficiency
414	1756	Wani Khalid Shafi, M.S.Charoo	Research scholar,National institute of technology, Hazratbal, Srinagar, 190006, India	"NanoLubrication Systems: An Overview"

415	1760	Krishna S Nair, Appukuttan Saritha, Jitha S Jayan, Geethu S, Neeraja J, Lekshmi V Pillai, Gayathri S Dilip, Gopika Venu, Kuruvilla Joseph	Department of Chemistry, Amrita Vishwa Vidyapeetham, Amritapuri, India.	Elucidation of degradation kinetics of CIIR nanocomposites by varying the structure of the anchoring surfactant groups
416	1763	Hadeel Salih Mahdi , Azra Parveen and Ameer Azam	Department of Applied Physics, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh-202002, India	Microstructural and Optical Properties of Ni doped CdS Nanoparticles Synthesized by Sol Gel route
417	1764	V. Balaji , M. Arulprakasajothi *, K. Logesh , B. Tharunpillai	Department of Mechanical Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamil Nadu, India-600062	Assessment of heat transfer behavior of water based alumina nanofluid
418	1767	Agniswami Behera and M.M. Ghosh	Department of Metallurgical and Materials Engineering, National Institute of Technology Durgapur - 713209, West Bengal, INDIA	Effect of Irradiation on the Tensile Properties of Nano-sized Ti-Al Alloy Single Crystals: A Study Using Molecular Dynamics Simulations
419	1768	Siddhant Jain, Rajashree Borah, Navojit Saikia, Sushmit Gogoi, Kumari Trinavee	Royal Global University, Ahom Gaon, Guwahati, 781035, India	The effect of stability on the thermal conductivity of copper nanofluid at low particle loadings
420	1769	Kamal Kishore Joshi , Ranjan K. Behera , Anurag	School of Mechanical Engineering, KIIT Deemed to be University, Bhubaneswar-751024, India	Effect of minimum quantity lubrication with Al <sub>2</sub> O <sub>3</sub> Nanofluid on Surface Roughness and its prediction using hybrid fuzzy controller in turning operation of Inconel 600
421	1772	Babith Lawrance L.K, R. Rohith Renish	HSEQ Manage , Palfinger Marine Dubai Branch, WS-151, Dubai Maritime City, PO Box 122236, UAE.	Experimental investigation of heat transfer from an electronic device using graphene nano fluid
422	1773	V J Pillewan, D N Raut, K N Patil	Department of Production Engineering, Veermata Jijabai Technological Institute, Matunga, Mumbai 400019, India	Wear Analysis of Charcoal, Unpurified Carbon Nanotubes and Purified Carbon Nanotubes based Metal Matrix Composite
423	1776	Vilas G Dhorea., W S Rathod , K N Patil	Veermata Jijabai Technological Institute, Mumbai, 400019, India	Investigation of mechanical properties of carbon nanotubes reinforced aluminium composite by metal injection molding
424	1777	Krishnan Bandyopadhyay, K.S. Ghosh and M.M. Ghosh	Department of Metallurgical and Materials Engineering, National Institute of Technology Durgapur - 713209, West Bengal, INDIA	Molecular Dynamics Based Modelling of Tensile Deformation and Nanoindentation of Tungsten Nanoparticles for Estimating Useful Mechanical Properties

425	1779	Virendra Kumar Yadav & M.H. Fulekar	School of Nanosciences, Central University of Gujarat, Gandhinagar-382030, India	Biogenic synthesis of maghemite nanoparticles ( $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> ) using Tridax leaf extract and its application for removal of fly ash heavy metals (Pb, Cd)
426	1780	Chetan Swaroop, , Mukul Shuklaa	Mechanical Engineering Department, Motilal Nehru National Institute of Technology, Allahabad, India	Mechanical, Optical and Antibacterial Properties of Polylactic Acid/ Polyethylene Glycol Films Reinforced with MgO Nanoparticles
427	1784	Mohd. Shahzad Shaikh, Dr. Prakhar Jindal, Akshata Mali, Aarish Ansari, Siniya Kamble	Student, Annasaheb Dange College of Engineering and Technology, Ashta, India 416301	Design Of Mems Based Microthruster – A Study
428	1790	Nabnit Panigrahaia, Rajeswari Chainia, Ayusman Nayaka,Purna Chandra Mishra,	Department of Mechanical Engineering, Gandhi Institute for Technology, Bhubaneswar, Odisha, India	Impact of milling time and method on particle size and surface morphology during nano particle synthesis from $\alpha$ -Al <sub>2</sub> O <sub>3</sub>
429	1793	Manoj Ukamanal , Purna Chandra Mishra, Ashok Kumar Sahoo	School of Mechanical Engineering, Kalinga Institute of Industrial Technology, Bhubaneswar 751024, Odisha, India	Temperature distribution during AISI 316 steel turning under TiO <sub>2</sub> -water based nanofluid spray environments
430	1796	K .Viswanath Allamraju	Department of Mechanical Engineering, Institute of Aeronautical Engineering, , Hyderabad-500043, India	Study of Mechanical behaviour of Hybrid Jute Nano Fiber Composite