



ARKA Educational & Cultural Trust (R)
JAIN INSTITUTE OF TECHNOLOGY, DAVANGERE
(A unit of Jain Group of Institutions, Bengaluru)



DEPARTMENT OF MECHANICAL ENGINEERING

Research Publications

Sl. No.	Year of publication	Name of Authors including Co-authors	Title	Journal ,Vol, Issue, pp	Indexing (UGC-CARE /SCOPUS/WOS)	Enclosed document details
1	2023	Dr. Madhukeshwara N	Enhancing solar air heater efficiency with 3D cylinder shaped roughness elements	Case Studies in Thermal Engineering	Scopus	
2	2023	Dr. Madhukeshwara N	Heat transfer and air flow friction in solar air heaters: A comprehensive computational and experimental investigation with wire-roughened absorber plate	Case Studies in Thermal Engineering	Scopus	
3	2023	Dr. Ramesh R S	Fracture toughness investigations of AA6061-SiC composites: Effect of corrosion parameters	Materials Chemistry and Physics, In press	Scopus	
4	2023	Dr. Ramesh R S	Wear Characterization of Phenol-Formaldehyde-Based Saguvani Wood-Polymer Composite—An ANOVA Approach	Materials	Scopus	
5	2023	Dr. Ramesh R S	Experimental Investigation of Thermal Behavior of Un-treated and Chemically Treated PF-Based Wood Polymer Composite	J. Inst. Eng. India Ser. C	Scopus	

6	2023	Mr. Shivayogi B H	Realization of mechanical and tribological properties of hybrid banana, sisal, and pineapple fiber epoxy composites using naturally available fillers	Engineering Research Express	Scopus	
7	2023	Mr. Shivayogi B H	AUTOMATIC INSPECTION CONVEYOR USING IR SENSORS	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
8	2023	Mr. Shivayogi B H	Experimental Analysis of Coir Based Hybrid Natural Fiber Reinforced Polymer Matrix Composites	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
9	2023	Mr. Shivayogi B H	Flexural Behavior Study of Coir and Wool Hybrid Natural Fibre Epoxy Resin	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
10	2023	Dr. Sreenivasa R	Analysis Of Crane Hook Under Static Loading Conditions	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
11	2023	Mr. Madhu H T	INDUSTRY1.0 TO 4.0: THE EVOLUTION OF INDUSTRIES	EPRA International Journal of Research and Development	UGC Care List	
12	2023	Mr. Nagaraja K U	Design And Fabrication Of Remote-Controlled Hydraulic Jack	International Journal of Engineering Research &	UGC Care List	

				Technology (IJERT)		
13	2023	Mr. Manjunatha A R	Fabrication And Performance Evaluation Of Automatic Hybrid Grass Cutting Machine	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
14	2023	Dr. Rajaneesh N. Marigoudar	3D Metal Printing Technology	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
15	2023	Muralidhar S	Dead weight gravity power generation	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
16	2023	Veeresh Kumar K S	Fabrication Of Automatic Fire Protection System	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
17	2023	Dr. Ramesh R S	Six Leg Vehicle For Agriculture Purpose Which Can Sow Seed And Spray Water	International Journal of Engineering Research & Technology (IJERT)	UGC Care List	
18	2023	Dr. Madhukeshwara N	Heat transmission and air flow friction in a solar air heater with a ribbed absorber plate: A computational study	Case studies in Thermal Engineering	Scopus	

19	2022	Meghana G, Shekharappa B. Mallur, H R Manohara, Sreenivasa R	Effect of holding time on hardness of A413 alloy with B ₄ C intermetallic	GIS Science Journal	SCOPUS	
20	2022	Sreenivasa R	Dual-Body and Triple-Body Rubbing Wear Behavior of Polyamide66 Composites as a function of Fiber and Filler Loading	International Journal of Engineering Research & Technology	Google scholar	
21	2022	Sreenivasa R	Evaluation of Mechanical Characteristics of Cobalt Reinforced Bronze based Composites	International Journal of Engineering Research & Technology	Google scholar	
22	2022	Sreenivasa R	Fabrication of Tender Coconut Opening & Cutting Machine	International Journal of Engineering Research & Technology	Google scholar	
23	2022	Manjunatha A R , Bharath N , Hema R , Santhosha B , Chethana B M	Anti Collision Avoidance System Using RFID Tags	International Journal of Innovative Research in Technology	Google scholar	
24	May 2021	Nanjundappa Madhukeshwara	Nusselt number and friction factor correlations for the solar air heater duct furnished with artificial cube shaped roughness elements on the absorber plate	Heat and Mass Transfer	SCOPUS	
25	2021	Rajaneesh N. Marigoudar, Shashidhar P. S., Sadashivappa Kanakuppi, Dharmendra B. V., Manjunatha T. S	Study of tool wear progression and optimization while machining mono and hybrid zinc – aluminium based MMCs	Journal of Machining and Machinability of Materials	SCOPUS	
26	2021	Ramesh R S, Ramesh B T,	Experimental Investigation of Vibration Characteristics of PF Based Wood Polymer Composite	International Journal for Research in Engineering Application &	UGC-CARE	

				Management (IJREAM)		
27	2021	Sreenivasa R, Shekharappa B Mallur	Multilevel factor design of bronze – based composites experimental study under sliding wear conditions	Journal of Bio-and Tribo-Corrosion	SCOPUS	
28	2021	Dr. Ramesh B T, Lava K R and Dr. D B Ganesh	The effect of modified combustion chamber on performance characteristics by using blends of simarouba biodiesel	Journal of Failure Analysis and Prevention, SpringerLink	SCOPUS	
29	2021	Dr. Ramesh B T & Dr. Ramesh R S	Experimental investigation of vibration characteristics of pf based wood polymer composite	International Journal for Research in Engineering Application & Management (IJREAM)	UGC-CARE	
30	2021	Sreenivasa R, Shekharappa B Mallur	"Sliding Wear Behavior of Cu+Sn+Cr Composites by Taguchi Technique"	Journal of Bio- and Tribo-Corrosion	SCOPUS	
31	2021	Ramesh R S, Ramesh B T,	Experimental Investigation of Vibration Characteristics of PF Based Wood Polymer Composite	International Journal for Research in Engineering Application & Management (IJREAM)	UGC-CARE	
32	2021	Rajaneesh N. Marigoudar, Shashidhar P. S., Sadashivappa Kanakuppi, Dharmendra B. V., Manjunatha T. S	Study of tool wear progression and optimization while machining mono and hybrid zinc – aluminium based MMCs	Journal of Machining and Machinability of Materials	SCOPUS	
33	2021	Sreenivasa R, Shekharappa B Mallur	Sliding Wear Behavior of Cu+Sn+Cr Composites by Taguchi Technique	Journal of Bio- and Tribo-Corrosion	SCOPUS	
34	2021	Sreenivasa R, Shekharappa B. Mallur	Dry sliding wear behavior of Cu+Sn+Co composites by Taguchi technique	Gradiva Review Journal	SCOPUS	
35	2021	Sreenivasa R, Shekharappa B. Mallur	Experimental Investigations on Cobalt reinforced Bronze Metal Matrix	GIS Science Journal	SCOPUS	

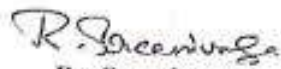
			Composites			
36	2021	Sreenivasa R, Shekharappa B. Mallur	Statistical analysis for sliding wear parameters of Bronze based composites	GIS Science Journal	SCOPUS	
37	2020	Dr. Ramesh B T	Mechanical characterization of al-2024 reinforced with flyash and e-glass by bp-ecap at different evaluated temperatures of the specimen	American Institute of Physics (AIP) Conference Proceedings and indexed by Scopus	UGC-CARE	
38	2020	Dr. Ramesh B T	Mechanical and engine performance test on bio-fuel extracted from napier grass	Journals of Bio-fuels, (Scopus Indexed)	SCOPUS	
39	2020	Rajaneesh N. Marigoudar	Comparative surface morphology of machined hybrid and unhybrid zinc-aluminium alloy based metal matrix composite	Materials Performance and Characterization	SCOPUS	
40	2019	Dr. Rajaneesh N. Marigoudar	"Analysis and Characterization of Al - 1050 ZrO2 Graphite based Composite material"	International Journal of Recent Engineering Research and Development	SCOPUS	
41	2019	Dr. Rajaneesh N. Marigoudar	"Comparative Study of Cutting Force Development During the Machining Of Un-Hybridized and Hybridized ZA43 Based Metal Matrix Composites"	Journal of Mechanical Behaviour of Materials	SCOPUS	
42	2019	Santhosh Kumar K. J., Rajaneesh N. Marigoudar	Comparative Study of Cutting Force Development During the Machining Of Un-Hybridized and Hybridized ZA43 Based Metal Matrix Composites	Journal of Mechanical Behaviour of Materials	UGC-CARE	

43	2019	Nandeesh H L, Rajaneesh N Marigoudar, Darshan H, Gowtham G, Arunkumar K, Achuth M	Analysis and Characterization of Al – 1050 ZrO ₂ Graphite based Composite material	International Journal of Recent Engineering Research and Development	UGC-CARE	
44	2019	Madhukeshwara N	Optimum thermo-hydraulic performance of solar air heated provided with cubical roughness on the absorber surface	Experimental heat transfer	SCOPUS	
45	June-2019	Manjunatha A R	Analysis Of Roller Swaging Machine	International Conference on Advances in Materials Research (ICAMR-2019)	UGC-CARE	
46	June-2019	Dr. Ramesh B T Manjuatha A R	"Analysis and optimization of landing gears in an Aircraft"	Journal of Emerging Technologies and Innovative Research	UGC-CARE	
47	Jan-2019	Mr. Madhu H T, Somashekhar J	Investigation and study of mechanical properties of areca shell fiber and palm powder natural composites	IOSR Journal of Mechanical and Civil Engineering	UGC-CARE	
48	2019	Somashekhar J	Mechanical characterization of al-2024 reinforced with flyash and e-glass by BP-ECAP at different evaluated temperatures of the sample	American Institute of Physics (AIP).	UGC-CARE	
49	Jan-2019	Dr. Ramesh B T	Investigation and study of mechanical properties of areca shell fiber and palm powder natural composites	IOSR Journal of Mechanical and Civil Engineering	UGC-CARE	
50	2019	Dr. Ramesh B T	Mechanical characterization of al-2024 reinforced with flyash and e-glass by BP-ECAP at different evaluated temperatures of the sample	American Institute of Physics (AIP).	UGC-CARE	
51	June-2019	Dr. Ramesh B T	Analysis Of Roller Swaging Machine	International Conference on	UGC-CARE	

				Advances in Materials Research (ICAMR-2019)		
52	2018	Rajaneesh N Marigoudar	"Effect of SiC Reinforcement on Microstructure and Mechanical Properties of Aluminum Metal Matrix Composite"	IOP Conference Series: Materials Science and Engineering,	UGC-CARE	
53	2018	Sreenivasa R	Design optimization of airframe in aircraft fuselage structure under static loading conditions	IJRMPS	UGC-CARE	
54	2018	Ramesh R S	"Experimental investigation of tensile and hardness behavior of PF based WPC"	IOSR	UGC-CARE	
55	Nov-Dec 2018	Somashekhar J Madhu H T	"Investigation and Study of Mechanical Properties of Areca Shell Fiber and Palm Powder Natural Composites"	IOSR	UGC-CARE	
56	2018	Ramesh B T	"Investigation and Study of Mechanical Properties of Areca Shell Fiber and Palm Powder Natural Composites"	IOSR	UGC-CARE	
57	2018	Manjunatha A R	Effect of Magnetic Field on Casting Parameters	International Conference on Advances in Materials Research (ICAMR-2019)	UGC-CARE	
58	March 2018	Manjunatha A R	Study of Wear properties on aluminium alloy composite reinforced with Graphene	IJRASET Volume 6 Issue III	UGC-CARE	
59	May 2018	Madhu H T	Design optimization and analysis of Moped silencer guard	IJRT Volume 4 Issue 12	UGC-CARE	
60	March 2017	Manjunatha A R	Innovative Casting Using Magnetic Materials	IJERM	UGC-CARE	
61	Jan-2017	Hemanth Raju T, Ramesh B T	Analysis and Optimization of Connecting Rod with different	World Journal of the Research and	UGC-CARE	

			Materials	Review		
62	Jan-2017	Ramesh B T, Hemant Raju T	Analysis and Optimization of Connecting Rod with different Materials	World Journal of the Research and Review	UGC-CARE	
63	April 2017	Ramesh B T	Fabrication of an Automated Portable Electric Pole Installer	IJSRD	UGC-CARE	
64	March 2017	Ramesh B T	Review ON: Influence of BP-ECAP on Mechanical Characteristics of Aluminium Matrix Composites	Asian Journal of Science & Technology	UGC-CARE	
65	Dec 2017	Madhu H T	Stress analysis of axially loaded plate with an elliptical hole	ISSN Volume 5 Issue 12	UGC-CARE	
66	Sept-2016	Madhukeshwara N	Effect of various Artificial Roughness parameter on Heat Transfer and Friction Characteristics for Flow Inside Rectangular Ducts of Solar Air Heater.	International Advanced Research Journal in sciences, Engineering and Technology	UGC-CARE	
67	2016	Somashekhar J	Investigation on the Water absorption Behaviour & Machine ability of areca shell fiber & palm power reinforced natural composites	IJSSET	UGC-CARE	
68	2016	Ramesh B T	Power Generation From Locomotive Rooftops	IFERP	UGC-CARE	
69	Oct 2016	Ramesh B T	Study Of Mechanical Properties Of Al-E Glass Alloy Composite Materials Fabricated By Stir Casting And Heat Treated Process	Imperial Journal of Interdisciplinary Research (IJIR)	UGC-CARE	
70	2016	R S Ramesh	Investigation of Wear Behaviour of PF Based Wood Plastic Composite – A Taguchi Approach	International conference on Recent trends in Engineering, science & technology ICRTEST-2016	UGC-CARE	

71	2016	R S Ramesh	Experimental Investigation to find correlation Between Brinell Hardness & Tensile Strength of PF Based Wood Plastic Composites	International conference on Recent trends in Engineering, science & technology ICRTEST-2016	UGC-CARE	
72	Nov 2016	Ramesh B T	Study On Effect Of Heat Treatment For Al-Cu Metal Macomposites Fabricated By Stir Casting Method	IRJET	UGC-CARE	
73	July 2016	Madhu H T	Design, Analysis and Optimization of linear guide for large size rotary table	IJESC Volume 6 Issue 7	UGC-CARE	


Dr. Sreenivasa R
Coordinator (R&D)


Dr. Rajaneesh N Marigoudar
HOD


Dr. Mouneshchhari S
Dean R&D


Dr. Ganesh D B
Principal