



K.RAMAKRISHNAN COLLEGE OF ENGINEERING
(Autonomous)

SAMAYAPURAM, TIRUCHIRAPPALLI – 621 112
Approved by AICTE & Permanently Affiliated to Anna University
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DEPARTMENT OF MECHANICAL ENGINEERING
LIST OF PUBLICATIONS DURING THE ACADEMIC YEAR 2019-2020

Number of Scopus Indexed Journals : 52

Sl.No	Title of the Paper	Name of the Author	Title of the Journal	Volume & Issue
1	Experimental investigation on properties of dissimilar laser welding of AISI 316L to monel 400	H.Ramakrishnan	Materials Today: Proceedings	33&7
2	Mechanical, microstructural evaluation and optimization of laser welded AISI 316l and incoloy 825	H.Ramakrishnan	AIP Conference Proceedings	
3	Experimental Analysis of Fiber Reinforced Plastic Structure with Bio Filler under Impact Load	K.Chellamuthu	Annals of the Romanian	25&3
4	Optimization of machining process parameters in CNC turning process of IS2062 E250 Steel using coated carbide cutting tool	M.Ramesh	Materials Today: Proceedings	21& 1
5	Mechanical investigation and optimization of parameter selection for Nylon material processed by FDM	M.Ramesh	Materials Today: Proceedings	46&19
6	PLA-based material design and investigation of its properties by FDM	M.Ramesh	Lecture Notes on Multidiscipli	
7	NOx, CO & HC control by adopting activated charcoal enriched filter in catalytic converter of diesel engine	R.Naveenkumar	Materials Today: Proceedings	22&4
8	Thermal Performance Enhancement in a Plain Tube fitted with perforated twisted tape insert using water based Al ₂ O ₃ Nanofluid	RNaveenkumar	Materials Today: Proceedings	22&3
9	Vision-based surface roughness accuracy prediction in the CNC milling process (Al6061) using ANN	R.Sanjeevi	Materials Today: Proceedings	37 & 1

10	Optimization of machining parameters in plane surface grinding process by response surface methodology	R.Sanjeevi	Materials Today: Proceedings	37 & 6
11	Comparative analysis of cylindrical thread and straight square profile pin on ultimate tensile strength of AA8011/AZ31B in friction stir butt	K.Lenin	Materials Today: Proceedings	21&1
12	Optimization of Wire EDM process parameters using Taguchi technique	K.Lenin	Procedia Engineering	97
13	Machining parameters optimization in laser beam machining for micro elliptical profiles using TOPSIS	K.Lenin	Materials Today: Proceedings	21&1
14	Investigation in machining parameter of micro profile and surface characteristics of Al7475 with SiC	K.Lenin	Materials Today: Proceedings	21&1
15	Prediction of surface roughness and tool wear in milling process on brass (C26130) alloy by Taguchi technique	M.Ravichandran	Materials Today: Proceedings	21&1
16	Review on exploration of graphene in diverse applications and its future horizon	M.Ravichandran	Materials Today: Proceedings	27 & 2
17	A review on recent advancements in fused deposition modeling	M.Ravichandran	Materials Today: Proceedings	27 & 2
18	Effect of stir casting parameters on properties of cast metal matrix composite	M.Ravichandran	Materials Today: Proceedings	22 &4
19	Synthesis and characterization of brass–AlN composites synthesized by ball milling	M.Ravichandran	Materials Today: Proceedings	22 &4
20	Investigations on characterization and properties of AA6063-Si ₃ N ₄ composites fabricated through	M.Ravichandran	Materials Today: Proceedings	22 &4
21	Machining of EN31 steel using carbide insert–a statistical approach	M.Ravichandran	Materials Today: Proceedings	22 &4
22	Optimization of powder metallurgy parameters for AA7072-MoO ₃ composites through taguchi method	M.Ravichandran	Materials Today: Proceedings	22 &4

23	Mechanical properties, characterization and wear behavior of powder metallurgy composites-a	M.Ravichandran	Materials Today: Proceedings	22 &4
24	A review on tribological, mechanical, corrosion and wear characteristics of stir cast AA6061 composites	M.Ravichandran	Materials Today: Proceedings	22 &4
25	Optimization of machining parameters of EDM for α - β brass using response surface methodology	M.Ravichandran	Materials Today: Proceedings	24 &2
26	Theoretical predictions and experimental investigation on three stage hemispherical dome in superplastic forming process	M.Ravichandran	Materials Today: Proceedings	24 &2
27	Optimization of electric discharge machining process parameters on AA6351-Al ₂ O ₃ composites	M.Ravichandran	Materials Today: Proceedings	27 &2
28	Effect of various reinforcements on properties of metal matrix composites: A review	M.Ravichandran	Materials Today: Proceedings	27 &2
29	Processing and properties of carbon nanotube reinforced composites: a review	M.Ravichandran	Materials Today: Proceedings	27 &2
30	Investigations on properties of Mg-Al ₂ O ₃ composites fabricated via stir casting route	M.Ravichandran	Materials Today: Proceedings	27 &2
31	Mechanical properties of magnesium-silicon carbide composite fabricated through powder metallurgy route	M.Ravichandran	Materials Today: Proceedings	27 &2
32	A review on the categorization of the welding process of pure titanium and its characterization	M.Ravichandran	Materials Today: Proceedings	27 &2
33	Review on study of thermosetting and thermoplastic materials in the automated fiber placement process	M.Ravichandran	Materials Today: Proceedings	27 &2
34	Influence of CNC turning variables on high strength Beryllium-Copper (C17200) alloy using tungsten carbide insert	M.Ravichandran	Materials Today: Proceedings	27 &2

35	Optimization of electric discharge machining parameters on surface roughness for Al/ZrO ₂ composite through response surface methodology	M.Ravichandran	Materials Today: Proceedings	27 &2
36	A Taguchi coupled desirability function analysis of wire cut EDM behaviour of titanium dioxide filled aluminium matrix composite	M.Ravichandran	Materials Today: Proceedings	27 &2
37	Friction stir processing (FSP) of numerical study based on design of experiment-review	M.Ravichandran	Materials Today: Proceedings	27 &2
38	Parametric optimization for friction stir welding with AA2024 and AA6061 aluminium alloys by ANOVA and GRG	M.Ravichandran	Materials Today: Proceedings	27 &2
39	Experimental investigation on influence of process parameter on friction stir processing of AA6082 using response surface methodology	M.Ravichandran	Materials Today: Proceedings	21&1
40	Advancement in materials for industrial safety helmets	M.Ravichandran	Materials Today: Proceedings	27 &2
41	Study of moisture absorption characteristics of jute fiber reinforced waste plastic filled polymer composite	G. SakthiBalan	Materials Today: Proceedings	27 &2
42	Investigations on egg shell powder and glass fiber reinforced aluminium matrix composite	G. SakthiBalan	Materials Today: Proceedings	33 &7
43	Study of water absorption characteristics of waste plastics and GFRP composites	G. SakthiBalan	Materials Today: Proceedings	22&4
44	Effect of chemical treatment on mechanical properties of prawn antenna reinforced waste plastic particulates filled polymer	G. SakthiBalan	Materials Today: Proceedings	33 &7
45	Effect of SiC particles reinforcement on mechanical properties of aluminium 6061 alloy processed using stir casting route	S.Sivananthan	Materials Today: Proceedings	21&1

46	Preparation and evaluation of mechanical properties of 6061Al-Al ₂ O ₃ metal matrix composites by stir casting process	S.Sivananthan	Materials Today: Proceedings	21&1
47	Mechanical Behavior and Microstructure Evolution of Al-5%Cu/TiC Metal Matrix Composite	S. Sivananthan	Journal of New Materials for	23&4
48	Mechanical properties of basalt fabric plain and twill weave reinforced epoxy composites	,C.Anand Chairman	Materials Today: Proceedings	46&19
49	Magnesium matrix composite for biomedical applications through powder metallurgy–Review	C.Anand Chairman	Materials Today: Proceedings	27 &2
50	Abrasive wear characteristics of bio-based jatropha oil cake incorporated basalt fiber reinforced epoxy composites	C.Anand Chairman	Materials Today: Proceedings	33&7
51	Development of multiple cutting power hacksaw	N. Karthikeyan	AIP Conference Proceedings	2283
52	Optimization of Tempering Process Parameters of AISI 3140 Low Alloy Steel to Conserve Furnace Energy using Tukey's Honestly Significant Difference Test	S Rajaram	IOP Conference Series: Earth and Environment	573

Sl No	Title of the paper	Name of the author	Title of the journal	Volume & Issue
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LIST OF PUBLICATIONS DURING THE ACADEMIC YEAR 2019-2020

Number of SCI Journals : 24

1	Optimization of powder metallurgy parameters to obtain low corrosion rate and high compressive strength in Al-MoO ₃ composites using SN ratio and ANOVA analysis,	M.Ravichandran	Materials Research Express	6 & 9
2	Investigations on tribologicalbehaviour of AA7075-TiO ₂ composites under dry sliding conditions	M.Ravichandran	Industrial Lubrication and Tribology	71 & 9
3	Influence of AlN particles on microstructure, mechanical and tribologicalbehaviour in AA6351 aluminum alloy	M. Ravichandran	Materials Research Express	6 &10
4	Optimization of wear parameters using Taguchi grey relational analysis and ANN-TLBO algorithm for Silicon Nitride filled AA6063 matrix composites	M.Ravichandran	Materials Research Express	6 &10
5	Investigations on microstructure and mechanical properties of Mg-5wt.% Cu-TiB ₂ composites produced via powder metallurgy route	M.Ravichandran	Journal of Mining and Metallurgy Section B	56 &1
6	Parametric studies on dry sliding wear behaviour of Al-7075 alloy matrix composite using S/N ratio and ANOVA analysis	. M.Ravichandran	Materials Research Express	7 & 1
7	Experimental investigation on mechanical properties of AA7075-AlN composites	. M.Ravichandran	Materials Testing	61 & 6
8	Microstructure and properties of high strength Al-Fe-Cu-Si-Zn alloy (AA8079) produced by mechanical alloying and powder metallurgy	M.Ravichandran	Materials Testing	61 & 7
9	A Facile Green Approach of Cone-like ZnO NSs Synthesized Via Jatropha gossypifolia Leaves Extract for Photocatalytic and Biological Activity	Ramesh.M	Journal of Inorganic and Organ metallic Polymers and	30
10	Influence of Stacking Sequence on Mechanical and Thermal Characteristics of Banana-Pineapple Fiber Reinforced Epoxy Composites	Ramesh.M	Journal of Natural Fibers	
11	Characterization of Natural Cellulose Fiber from the Barks of Vachelliafarnesiana	Jafrey Daniel James D	Journal of Natural Fibers	
12	Experimental investigation and optimization of abrasive wear characteristics of polypropylene nanocomposites	. Jafrey Daniel James D	Material Research Express	7&1
13	Process parameters optimization for friction vibration joining of Polypropylene/Spheri glass composites using TOPSIS	Jafrey Daniel James D	Surface Review and Letters	27&6

14	Mechanical and Triboloical Characteristics of ZrO ₂ reinforced A2024 matrix composites produced via stir casting route	Jafrey Daniel James D	Materials Research Express	6 &11
15	Investigation on the characteristics of bamboo/jute reinforced hybrid epoxy polymer composites	Jafrey Daniel James D	Materials Research Express	6 &10
16	Influence of Parthenium Hysterophorus and Impomea Pes-caprae Fibers Stacking Sequence on the Performance Characteristics of Epoxy	Jafrey Daniel James D	Journal of Natural Fibers	
17	Investigation and optimization of parameters for hard turning of OHNS steel	Jafrey Daniel James D	Materials and Manufacturing Processes	30&10
18	Influence of Stacking Sequence on the Mechanical and Water Absorption Characteristics of Areca Sheath-palm Leaf Sheath Fibers	Jafrey Daniel James D	Journal of Natural Fibers	
19	Performance test and emission characteristics of diesel fuel blended with n-Hexanol	Lenin. K	Thermal Science	24& 1B
20	Two-body abrasive wear behavior of woven basalt fabric reinforced epoxy and polyester composites	C.AnandChairman	Materials Research Express	7& 3
21	Study of ageing effect on mechanical properties of prosopis juliflora fibre reinforced palm seed powder filled polymer composite	Santhosh Kumar V	Australian Journal of Mechanical Engineering	
22	Experimental Investigation of Mechanical and Wear Properties of AL7075/Al ₂ O ₃ /Mica Hybrid Composite	A. Mohana Krishnan,	Journal of Inorganic and Organometallic	31
23	Investigation on water absorption and wear characteristics of waste plastics and seashell powder reinforced polymer composite	Sakthi Balan	Jurnal Tribologi	27
24	Evaluating the working characters of a diesel engine fueled with biodiesel blends added with rice husk Nano particles	M.Manimaran	Energy Sources, Part A: Recovery, Utilization, and	

