



PANIMALAR ENGINEERING COLLEGE

Bangalore Trunk Road, Nasarathpet, Poonamallee, Chennai- 600 123

2017-18

DEPARTMENT OF MECHANICAL ENGINEERING



FACULTY PUBLICATION – JOURNALS

S.NO	AUTHOR NAME	PAPER TITLE	ISSUE/VOLUME /PAGE NO	JOURNAL NAME	PUBLISHER NAME	DOI IF ANY	INDEXING
1	B.Balamugundan L.Karthikeyan M.Puviyarasan	Feasibility of fabricating HDPE nanocomposites using specially designed FSP tooling system	Vol.41/1 1-9	Polymer (Korea)	The Polymer society of Korea		SCI
2	M. Puviyarasan V.S. Senthil Kumar D. Viswanathan K.A. Padmanabhan	On Improving the Formability of AA6061/SiCp Composite Synthesized Using Friction Stir Processing	Vol.48,Issue 10 998-1008	Materials Science & Engineering Technology	Wiley-VCH		SCI
3	Sankar.RV. S.Senthilkumar Puviyarasan.M	Effect of scroll pin profile and tool rotational speed on mechanical properties of submerged friction stir processed AZ31B magnesium alloy	Vol.21 issue 3 1-9	Materials Research	SciELO	DOI:http://doi.org/ 10.1590/1980- 5373 -MR-2017-0769	SCI
4	R.Sathiyamoorthi G.Sankaranarayanan	The effects of using ethanol as additive on the combustion and emissions of direct injection diesel engine fuelled with neat lemon grass oil- diesel fuel blend	Vol. 101 747 – 756	Renewable Energy	Elsevier		SCI
5	R.Sathiyamoorthi G.Sankaranarayanan K.Pitchandi	Combined effect of nano emulsion and EGR on combustion and emission characteristics of neat lemon grass oil (LGO)-DEE-Diesel blend fuelled diesel engine	Vol.112 1421 – 1432	Applied Thermal Engineering	Elsevier		SCI
6	Dinesh Babu M Yuvarajan.D	Analysis on the Influence of Nanoparticles of Alumina,	Vol.30(11)	Energy& Fuels	American		SCI



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		Copper Oxide, and Zirconium Oxide on the Performance of a Flat-Plate Solar Water Heater.	9908–13		chemical society		
7	Yuvarajan D, Dinesh Babu M.	Performance, combustion and emission analysis on the effect of ferrofluid on neat biodiesel.	Vol.111 283–291	Process Safety and Environmental Protection	Elsevier		SCI
8	Yuvarajan.D, Dinesh Babu M.	Emissions analysis on diesel engine fuelled with cashew nut shell biodiesel and pentanol blends		Environmental Science & Pollution Research	Springer	DOI :http://dx.doi.org /10.1007/s11356-017-8915-37.	SCI
9	Yuvarjan D, Dinesh Babu M , Beemkumar N, Amithkishore P.	Experimental investigation on the influence of titanium dioxide nanofluid on emission pattern of biodiesel in diesel engine.		Atmospheric pollution research	Elsevier	http://dx.doi.org /10.1016/j.apr 2017.06.03.	SCI
10	Yuvarjan D, Beemkumar M, Dinesh Babu M.	Performance and emission analysis on diesel engine fuelled with cashew nut shell biodiesel and pentanol blends.		Korean journal of chemical engineering,	Springer	http://dx.doi.org/ 10.1007/s/1814-016-0364	SCI
11	Yuvarajan D, Dinesh Babu M , ArulprakashajothiM Beemkumar N.	Performance, combustion and emission analysis of neat palm oil bio-diesel and higher alcohol blends in diesel engine.	Vol. 31(12) 13796–13801	Energy& Fuels	American chemical society		SCI
12	Amit kishore P, Dinesh Babu M Santhanana Krishnan R, Yuvarajan D, Ramesh Babu B R and Beemkumar N	Emission and performance analysis on diesel engine burning cashew nut shell oil biodiesel mixed with hexanol.		Petroleum Science	Springer	http://dx.doi.org /10.1007/ s12182-017-0208-8.	SCI
13	Yuvarajan D,	Performance, combustion and		Heat and mass		http://dx.doi.org/	SCI



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	Dinesh Babu M, Beemkumar N, Amit kishore P.	emission analysis of mustard oil biodiesel and octanol blends in diesel engine.		transfer	Elsevier	10.1007/s00231-018-2274-x	
14	Yuvarajan D, Dinesh Babu M, Santhanana Krishnan R, Arulprakashajothi M Beemkumar N.	Experimental testing and evaluation of neat biodiesel and heptanol blends in diesel engine.		Journal of testing and evaluation. (JOTE)	ASTM International	Accepted for publication	SCI
15	MS.Jagatheeshwaran, A Elayaperumal, S Arulvel	Impact of nano zinc oxide on the friction–Wear property of electroless nickel-phosphorus sea shell composite coatings	Vol . 225 160-172	Materials Science and Engineering: B,	Elsevier		SCI
16	Arul vel Elayaperumal.A Jagatheeshwaran. M.S	Controlling adhesive wear failure of Nickel- Phosphorous coating at high load condition using crab shell particle as reinforcement	Vol.90 310 - 323	Engineering Failure Analysis	Elsevier		SCI
17	S Arulvel, A Elayaperumal, MS Jagatheeshwaran	Electroless nickel–phosphorus coating on crab shell particles and its characterization	Vol.248 87-95	Journal of Solid State Chemistry	Elsevier		SCI
18	A.Anbarasu A. Karthikeyan	Effect of injection pressure on the performance and emission characteristics of CI engine using canola emulsion fuel.	Vol.38, Issue 3 314 - 319	International journal of Ambient Energy	Taylor & Francis		Scopus
19	K.Sathish S.T.Selvamani P.Ramesh D.Sivakumar M.Vigneshwar S.Divagar	Finite Element Analysis on optimized condition of super plastic forming of AZ31B Magnesium alloy sheets	Vol. 4 6678-6687	Materials Today: Proceedings	Elsevier		Scopus
20	G.Rathinasabapathi,	Design Optimization of Aerofoil	SI 2018	IJERT			Google



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	K.Mani, L.Karthikeyan	Radial Fan Impeller	309-312		IJERT		scholar
21	M. Bharathi M. Chandrasekar M. Puviyarasan L. Karthikeyan	Investigation of Vibration on Suspension Systems at Different Load and Operating Conditions	Vol. 7, 1-5 No. 4	International Journal of Computational Engineering Research	IJCER		Google Scholar
22	M.Puviyarasan L.Karthikeyan G.Gnanavel K.Dineshkumar	A critical review on friction stir based process	Vol. 142 258-266	Advances in Engineering Research	Atlantis Press		Google scholar
23	S.Saranraj , N.Balamurugan , S.Rohenth , L.Karthikeyan , V.S.Senthilkumar	Effect of Process Variables on Microstructure of Cast Aluminum Alloy A356 during the Friction Stir Processing	SI 2018 341-346	IJERT	IJERT		Google scholar
24	N.Moham Kumar, R.Mani , R.Krishnarao, L.Karthikeyan , V.S.Senthilkumar	Effect of Process Variables During The Friction Stir Processing of Cast Aluminum Alloy A356	SI 2018 347-349	IJERT	IJERT		Google scholar
25	M. Kishore V.M. Mohamed Sameer M. Puviyarasan S. ChezhianBabu	Multi-Response Optimization of WEDM Process Parameters of Monel 400 using Integrated RSM and GA	Vol. 7, No. 4 12-19	International Journal of Computational Engineering Research	IJCER		Google Scholar
26	R.Sathiyamoorthi, S. ChezhianBabu V.Rajangam , L.S. Tamizhselvan	Evaluation of Neem oil biodiesel with 2-Ethyl Hexyl Nitrate (2-EHN) as Cetane Improver on Performance and Emission	SI 2018	IJERT	IJERT		Google scholar



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		characteristics of a DI Diesel Engine					
27	S. B. AdhithKumaar S. Pushkaran M. Puviyarasan P. Kabilan	Displacement and Stress Analysis of Suspension Systems using Ansys	Vol. 7, 03 283-286	International Journal of Engineering Research & Technology	International Research Publication House		Google scholar
28	M.DineshBabu, M.Ragupathi , K.Sathish M.Saravanan	Experiental Investigation And A Comparative Study On The Thermal Performance Of Solar Flat Plate Collector Using Zro2 Nanofluid	SI 2018 313-316	IJERT	IJERT		Google scholar
29	K. R. Padmavathi R. Ramakrishnan	Tribological properties of micro and nanoSiC reinforced Aluminium metal matrix composites	Vol. 10, No. 6 367 – 372	International Journal of Chemtech Research	Sphinx knowledge house		Google scholar
30	K. R. Padmavathi R. Ramakrishnan	Tribological properties of micro and nano TiO2 reinforced Aluminium metal matrix composites	Vol. 9, No. 4 3368 – 3373	International Journal of Engineering and Technology	Engineering Journals publications		Google scholar
31	K.R.Padmavathi S.Devaraj , I.John Solomon , A.Premkumar	Influence of Process Parameters on Wire EDM Process for AISI 316 43Stainless Steel	SI 2018 286-291	IJERT	IJERT		
32	Jagatheeswaran.M.S, Naveen.K, Manipandi.A.S, Suheal.A	Wear Characteristic of NIP/Bio Material Coating Using Electroless Method	SI 2018 329-333	IJERT	IJERT		
33	Anbarasu.A. Muthuraman.V	Effect of Injection Pressure on the Performance and Emission	SI 2018 296-299	IJERT	IJERT		Google scholar



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	Suthan.R, Poyyamozi.N	Characteristics of CI Engine using Canola Bio-Diesel					
34	K.Thiruselvam S.Senthil B.Balamugundan R.Saravanan	Optimization of thermal barrier coating material for diesel engine cylinder liner	SI 2018 292-295	IJERT	IJERT		Google scholar
35	M.D.Mohan Gift C.Karthikeyan	Analytical composition response probing of an Adhesive joint	SI 2018 300-304	IJERT	IJERT		Google scholar
36	T.S.Senthil J.Murugesan D.Rajesh N.Balaji	Dissimilar Steel Welding of Super Heater Coils for Power Boiler Applications	Vol.142 199-203	Advances in engineering Research	Atlantis press		Google scholar
37	T. Mayavan S. Thamizh selvan J.Srinivas P.Sriram	Modeling The Correlation Between Cutting And Process Parameters In Machining Of Ni Based Udimet Alloy Using Artificial Neural Network	SI 2018 321-325	IJERT	IJERT		Google scholar
38	N.Chandran, J.Gunasekaran D.Nithyanand C.Vinothkumar	Flow Analysis of Molten Metal through various Ingates using water models	SI 2018 338-340	IJERT	IJERT		Google scholar

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FACULTY PUBLICATION - CONFERENCES(NATIONAL/INTERNATIONAL)

S.NO	AUTHOR NAME	PAPER TITLE	CONFERENCE NAME	VENUE NAME	DATE OF CONFERENCE
1	A.Anbarasu K.Naresh C.S.Rajesh R.Osler	An Investigation on Performance Characteristics of CI Engine Using Biogas and Diesel - A Review	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
2	A.Anbarasu S.Ravishankar J.K.Reavanth S.B.MonishKarthik	Experimental Investigations on the Effects of Cerium Oxide Nanoparticle Fuel Additives on Canola Biodiesel	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
3	A.Anbarasu Nagaraja.V NithinSiddharth. B Rajesh.S	Experimental Investigations on mixing of two biodiesels blended with diesel as alternative fuel for CI engines – A Review	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
4	Muthuraman.V M.Dhiyanji Shrishveerasundar	Simultaneous optimization of D7 steel in pursuit of improving machining characteristics	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
5	Muthuraman.V Arunkumar Jonesh Padmanaban.M	Optimization of WEDM of Titanium material using ANOVA	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
6	S. Natarajan, R. Rahul, M. Puviyarasan	Potential of Internet of Things in Automotives	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
7	K.Thiruselvam	Finite element analysis of thermal barrier coating on IC components piston and cylinder liners	International Conference on Innovative and Emerging Trends in Engineering and	Panimalar Institute of Technology	2018



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			Technology		
8	K.Thiruselvam	Review paper on thermal barrier coating in IC engine	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2018
9	T.Sivapadmanaban S.KousikRathan T.Moorthy	Studies on Nano Technology in Agriculture	International Conference for Phoenixes on Emerging Current Trends in Engineering And Management	Panimalar Engineering College	2018
10	S.Thamizhselvan C.Karthikeyan P.Sriram	Multi Tube direct steam generation advancement in solar energy utilization	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2017
11	M.Raghupathy M.Saravanan	Comparison of crashworthiness of two materials used in bus skeletal frame	International Conference on Innovative and Emerging Trends in Engineering and Technology	Panimalar Institute of Technology	2017
12	Muthuraman.V Adenderik.M Abishek.M Allanjebaselvam.P Balaji.D	Optimizing WEDM of Monel material using ANOVA	International Conference on Breakthrough in Engineering, Science & Technology	Institute of Engineering Research, Salem	2018
13	K.Thiruselvam	Heat transfer analysis of thermal barrier coating of cylinder liner in IC engines	International Conference on Recent Advancement in Mechanical Engineering & Technology	Aarupadai Veedu Institute of Technology	2018

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