St. Joseph's College of Engineering

Department of Mechanical Engineering

Papers Published in Journals for 2021-2022

S. No	Name of the Staff	Article Title	Journal Name	Quality of Publication
1.	Dr. N. Arunkumar, Mr.N.Sathishkumar	Study on PLA and PA thermoplastic polymers reinforced with carbon additives by 3D printing process	Materials Today: Proceedings	**Scopus**
2.	Dr. N. Arunkumar	Cellular manufacturing layout design using heuristic clustering algorithm and LPP model	South African Journal of Industrial Engineering	**SCI**
3.	Dr. N. Arunkumar, Mr.M.Subramanian, Mr.T.Balasubramanian, Mr.M.Ganesh	Experimental studies on the wear and mechanical properties of Al7075-B4C-Al2O3 composite	IOP Conference Series: Materials Science and Engineering	**Scopus**
4.	Mr. M. Subramanian, Mr.R.Elakkiyadasan, Mr.P.Manoj Kumar	Optimization of Shell and Tube Condenser for Low Temperature Thermal Desalination Plant	E3S Web of Conferences	**Scopus**
5.	Dr. G. M. Lionus Leo, Mr. Gavaskar Thodda	Experimental investigation on effects of gasoline premixed-Al2O3 additive blended fish oil biodiesel fuelled HCCI-DI engine	Journal of Physics: Conference Series	**Scopus**
6.	Dr. Vaddi Seshagiri Rao	Development of a machine-learning system to classify lung CT scan images into normal/COVID-19 class	arXiv preprint arXiv:2004.	**Book series**
7.	Dr. N. Arunkumar	Economic Tradeoff Optimization Model for Machine Cell Layout Design	Journal of Chinese society of mechanical Engineers	**SCI**
8.	Mr. N. Sathish Kumar	Experimental investigation of drilling parameters for polymer matrix composite	AIP Conference Proceedings	**Scopus**
9.	Dr. N. Arunkumar, Mr.M.Arun, Mr.N.Sathishkumar	Process parameters optimization in machining of duplex 2205 stainless steel alloy using AWJM technique	Materials Today: Proceedings	**Scopus**
10.	Mr. N. Sathish Kumar, Mr. R. Elakiyadasan, Mr. P. Manoj Kumar	Study of compressive behaviour on 3D printed PETG polymer lattice structures infilled with epoxy resin	AIP Conference Proceedings	**Scopus**
11.	Dr. G. M. Lionus Leo	Entropy Generation Minimization of Vapour Absorption Heat Transformer	Theoretical, Computational, and Experimental Solutions to Thermo-Fluid …	**Book Series**

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12.	Dr. R. George Sahaya Nixon, Mr.Subramanian Manivel	Parameter study on friction surfacing of AISI316Ti stainless steel over EN8 carbon steel and its effect on coating dimensions and bond strength	Materials	**SCI**
13.	Dr. Vaddi Seshagiri Rao	An Automated Person Authentication System with Photo to Sketch Matching Technique	Intelligent Data Engineering and Analytics	**Book Series**
14.	Dr. Vaddi Seshagiri Rao	Brain MRI Examination with Varied Modality Fusion and Chan-Vese Segmentation	Intelligent Data Engineering and Analytics	**Book Series**
15.	Dr. Vaddi Seshagiri Rao	Carbon nanotubes functionalized with newly synthesized benzimidazole derivative for corrosion inhibition on the nickel alloy surface in a sulfuric acidic medium	Inorganic and Nano-Metal Chemistry	**SCI**
16.	Mr. M. Subramaniam, Mr. J. Mariyappan, Mr. A S M Udayakumar, Mr. T. Balasubramanian	Design and Stress Distribution Analysis of Composite Spur Gear	IOP Conf. Series: Materials Science and Engineering	**Scopus**
17.	Mr. A. Ruskin Bruce, Mr. P. Prem Kumar, Mr. P. Manoj Kumar	Experimental characteristics and optimization of friction stir welded AA5052-AA6061 using RSM technique	Materials Today: Proceedings	**Scopus**
18.	Dr. N. Arunkumar	Experimental Study and Analysis of Defragmented Carbon Nanotubes in Polyacrylonitrile Matrix	Trends in Manufacturing and Engineering Management	**Book Series**
19.	Dr. N. Arunkumar	Investigation on mechanical properties of Basalt-Kevlar-Glass fiber reinforced epoxy composites	AIP Conference Proceedings	**Scopus**
20.	Dr. S. Arivazhagan	Multi objective optimization of FSW process parameters to enhance the tensile strength and hardness of AA7068 welded joints	Surface Topography: Metrology and Properties	**SCI**
21.	Mr. P. Manoj Kumar	Multiple response optimization of machining parameters in turning nimonic C263 using TOPSIS approach	Materials Today: Proceedings	**Scopus**
22.	Dr. N. Arunkumar	Optimization of mechanical properties on FDM made copper electroplated polyethylene terephthalate glycol parts	AIP Conference Proceedings	**Scopus**
23.	Dr. R. Selvam	An experimental investigation on machinability of aluminium metal matrix composite Al6061 reinforced with SiC through wire electrical discharge machining (WEDM)	AIP Conference Proceedings	**Scopus**
24.	Mr. M. Ganesh	Effect of cryogenic cooling in deep hole drilling process – a stride in the direction of green manufacturing	Materials and Manufacturing processes	**SCI**

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25.	Mr. M. Ganesh, Dr. N. Arunkumar, Mr. K. Elavarasan, Dr. R. Sathish	Experimental Investigation of Friction and Wear Behavior of AL7075-TiO2-B4C using RSM, ANN and Desirability Function	Int. J. Vehicle Structures & Systems	**Scopus**
26.	Dr. N. Arunkumar	Influence of MQL on performance evaluation of EN19 steel under centreless grinding	Materials and Manufacturing Processes	**SCI**
27.	Dr. N.E. Arun Kumar, Mr.M.Subramanian	INFLUENCE OF WIRE-EDM PARAMETERS ON SURFACE CHARACTERISTICS OF SUPERALLOY MONEL 400	Surface Review and Letters	**SCI**
28.	Dr. N. Arunkumar, N.Prasanna Iyer	Investigation of Abrasive water jet machining parameters of Bismaleimide composites	Materials and Manufacturing Processes	**SCI**
29.	Mr. M. Subramanian	Optimization of cardanol oil dielectric-activated EDM process parameters in machining of silicon steel	Biomass Conversion and Biorefinery	**SCI**
30.	Mr.N.Sathish Kumar	Composite Material	Technical Publication	**Book Series**
31.	Dr. S. Arivazhagan	Multi-objective optimization of alloying elements to enhance the wear resistance and impact strength of HCCI produced by furan sand mold	Proceedings of the Institution of Mechanical Engineers, Part E Journal of Process Mechanical Engineering.	**SCI**
32.	Mrs. N. Prasanaa Iyer, Dr. N. Arunkumar	Dynamic analysis of hybrid basalt and carbon fiber reinforced Bismaleimide composites suited for high temperature structural applications	Materials Research Express	**SCI**