

# Manikandan Natarajan

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

816  
citations

687363

13  
h-index

677142

22  
g-index

66  
all docs

66  
docs citations

66  
times ranked

303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of wire-EDM textured conventional tungsten carbide inserts in machining of aerospace materials (Ti-6Al-4V alloy). <i>Materials and Manufacturing Processes</i> , 2019, 34, 103-111.	4.7	77
2	Experimental investigation and optimization of process parameters in EDM of aluminium metal matrix composites. <i>Materials Today: Proceedings</i> , 2020, 22, 525-530.	1.8	52
3	Machinability Analysis and ANFIS modelling on Advanced Machining of Hybrid Metal Matrix Composites for Aerospace Applications. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1866-1881.	4.7	50
4	Multiple performance optimization of electrochemical drilling of Inconel 625 using Taguchi based Grey Relational Analysis. <i>Engineering Science and Technology, an International Journal</i> , 2017, 20, 662-671.	3.2	40
5	Experimental and Taguchi-Based Grey Approach of Laser Metal Deposition Technique on Nickel-Based Superalloy. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 205-214.	1.5	32
6	Optimization of process parameters in Electrical Discharge Machining of Haste Alloy C276 using Taguchi's method. <i>Materials Today: Proceedings</i> , 2018, 5, 14432-14439.	1.8	31
7	Machinability analysis of high strength materials with Cryo-Treated textured tungsten carbide inserts. <i>Materials and Manufacturing Processes</i> , 2019, 34, 502-510.	4.7	31
8	Multi objective optimization of wire electrical discharge machining on Inconel 718 using Taguchi grey relational analysis. <i>Materials Today: Proceedings</i> , 2021, 39, 230-235.	1.8	31
9	Numerical simulation and experimental investigation on laser beam welding of Inconel 625. <i>Materials Today: Proceedings</i> , 2021, 39, 268-273.	1.8	22
10	Generative modelling of laser beam welded Inconel 718 thin weldments using ANFIS based hybrid algorithm. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	21
11	Multi objective optimization of wire-electrical discharge machining of stellite using Taguchi's Grey approach. <i>Materials Today: Proceedings</i> , 2021, 39, 216-222.	1.8	20
12	Investigations on Wire Electrical Discharge Machining of Titanium Alloys by Taguchi's Grey Approach. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 359-368.	0.4	20
13	Investigation on Ti6Al4V laser metal deposition using Taguchi based grey approach. <i>Materials Today: Proceedings</i> , 2018, 5, 14375-14383.	1.8	18
14	Multi aspects optimization on spark erosion machining of Incoloy 800 by Taguchi Grey approach. <i>Materials Today: Proceedings</i> , 2021, 39, 148-154.	1.8	18
15	Microstructure Analysis and Evaluation of Mechanical Properties of Al 7075 GNP's Composites. <i>Materials Today: Proceedings</i> , 2018, 5, 14281-14291.	1.8	16
16	Optimisation of spark erosion machining process parameters using hybrid grey relational analysis and artificial neural network model. <i>International Journal of Machining and Machinability of Materials</i> , 2020, 22, 1.	0.1	16
17	Development of neural network models for wire electrical discharge machining of Haste alloy. <i>Materials Today: Proceedings</i> , 2021, 39, 438-445.	1.8	16
18	Investigations on machinability characteristics of Cast Aluminum Alloy based (LM 26+Graphite+Fly) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Processes, 2022, 37, 748-763.	4.7	16

#	ARTICLE	IF	CITATIONS
19	Influence of fiber length on mechanical properties and microstructural analysis of jute fiber reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2021, 39, 398-402.	1.8	14
20	Predictive Models for Wire Spark Erosion Machining of AA 7075 Alloy Using Multiple Regression Analysis. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 429-438.	0.4	14
21	Optimisation of electrochemical drilling process using Taguchi method and regression analysis. <i>International Journal of Machining and Machinability of Materials</i> , 2017, 19, 136.	0.1	14
22	Investigations on Wire Electrical Discharge Machining of Nickel-Based Superalloy Using Taguchi's Approach. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 267-274.	0.4	14
23	Application of Taguchi method on Wire Electrical Discharge Machining of Inconel 625. <i>Materials Today: Proceedings</i> , 2021, 39, 121-125.	1.8	13
24	Experimental Analysis on Wire Electrical Discharge Machining of Inconel 718 Using Taguchi's Method. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 497-504.	0.4	13
25	Prediction of Performance Measures Using Multiple Regression Analysis for Wire Electrical Discharge Machining of Titanium Alloy. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 601-612.	0.4	13
26	Optimization and performance evaluation of PLA polymer material in situ carbon particles on structural properties. <i>Materials Today: Proceedings</i> , 2021, 39, 223-229.	1.8	11
27	Effect of Textured Tools on Machining of Ti-6Al-4V Alloy under Lubricant Condition. <i>Materials Today: Proceedings</i> , 2018, 5, 14230-14236.	1.8	10
28	Application of Taguchi based Grey Method for Multi Aspects Optimization on CNC Turning of AlSi7 Mg. <i>Materials Today: Proceedings</i> , 2018, 5, 14292-14301.	1.8	9
29	Machinability studies on wire electrical discharge machining of Nickel alloys using multiple regression analysis. <i>Materials Today: Proceedings</i> , 2021, 39, 155-159.	1.8	9
30	Parameters optimization and development of multiple regression models for wire electrical discharge machining of aluminium composites. <i>Materials Today: Proceedings</i> , 2021, 39, 263-267.	1.8	9
31	Machinability Studies on CNC Turning of PH Stainless Steel with Coated Inserts. <i>Materials Today: Proceedings</i> , 2018, 5, 14520-14525.	1.8	8
32	Investigations on multi-sheets single point incremental forming of commercial pure titanium alloys. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1002-1009.	4.7	8
33	Experimental investigation on surface integrity during machining of AISI 420 steel with tungsten carbide insert. <i>Materials Today: Proceedings</i> , 2020, 22, 992-997.	1.8	7
34	Comparison of corrosion behavior on laser welded austenitic stainless steel. <i>Materials Today: Proceedings</i> , 2021, 39, 649-653.	1.8	7
35	Parametric optimization and multiple regression modelling for fabrication of aluminium alloy thin plate using wire arc additive manufacturing. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	7
36	Fabrication of aluminium hybrid metal matrix composites and development multiple regression models for wire electrical discharge machining. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	7

#	ARTICLE	IF	CITATIONS
37	Performance evaluation of cryo-treated tungsten carbide inserts in machining PH stainless steel. Materials Today: Proceedings, 2020, 22, 487-491.	1.8	6
38	Investigations and regression modeling on mechanical characterization of cast aluminum alloy based (LM 26%+graphite%+fly ash) hybrid metal matrix composites. International Journal on Interactive Design and Manufacturing, 0, , 1.	0.2	6
39	Optimisation of electrochemical drilling process using Taguchi method and regression analysis. International Journal of Machining and Machinability of Materials, 2017, 19, 136.	0.1	5
40	Performance Evaluation of Textured Inserts with MQL in Machining of PH Stainless Steel. Materials Today: Proceedings, 2021, 39, 279-284.	1.8	5
41	Performance of Textured Tool with MQL in Machining of Precipitation Hardened Stainless Steel. Lecture Notes in Mechanical Engineering, 2022, , 39-50.	0.4	5
42	Machinability Analysis and Optimization of Wire-EDM Textured Conventional Tungsten Carbide Inserts in Machining of 17%4 PH Stainless Steel. Materials Today: Proceedings, 2021, 39, 359-367.	1.8	4
43	Statistical optimization of parameters for enhanced properties of diffusion bonded AA6061 and AA 7075 aluminium alloys. Materials Today: Proceedings, 2021, 39, 388-397.	1.8	4
44	Development of Grey-ANFIS Model for Wire Electrical Discharge Machining of Al-GNP Composites. Materials Today: Proceedings, 2021, 39, 301-310.	1.8	4
45	Design of high efficiency energy harvesting circuit using dual switching technique. Materials Today: Proceedings, 2021, 39, 725-730.	1.8	2
46	Prediction of Material Removal Rate in Wire Electrical Discharge Machining of Aluminum Composites for Automotive Components. , 0, , .		2
47	Prediction of Performance Measures in Wire Electrical Discharge Machining of Aluminum Fly Ash Composites Using Regression Analysis. Lecture Notes in Mechanical Engineering, 2021, , 387-396.	0.4	2
48	Performance comparison of artificial neural network and multiple regression models for wire electrical discharge machining of haste alloy. Materials Today: Proceedings, 2021, 39, 524-532.	1.8	1
49	Effect of interfacial thickness on microstructure, mechanical properties, and modelling of diffusion fused dissimilar Al alloys for process optimization using ANN-GA method. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2022, 5, 105-117.	2.1	1
50	Investigations on Wire Electrical Discharge Machining of Magnesium Alloy AZ31B by Taguchi's Approach. Lecture Notes in Mechanical Engineering, 2022, , 923-931.	0.4	1
51	Optimization of Spark Erosion Machining Process Parameters using Hybrid Grey Relational Analysis and Artificial Neural Network Model. International Journal of Machining and Machinability of Materials, 2019, 21, 1.	0.1	0
52	Characterization of Areca and Tamarind Fiber Reinforced Hybrid Polymer Composites for Structural Applications. , 0, , .		0
53	Investigations on Wire Spark Erosion Machining of AA 6061 Alloy Using Taguchi's Approach. Lecture Notes in Mechanical Engineering, 2021, , 577-585.	0.4	0