

Ramanujam Radhakrishnan

List of Publications by Year in descending order

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48
papers

1,342
citations

411340

20
h-index

425179

34
g-index

48
all docs

48
docs citations

48
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal additive manufacturing of commercial aerospace components – A comprehensive review. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 441-454.	1.4	15
2	Numerical modelling and experimental validation of crater formation in WEDM hybrid turning of Ti-6Al-4V alloy. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 392-404.	1.4	10
3	Mathematical modeling and optimization of tribological behaviour of Al 7075 based hybrid nanocomposites. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 1561-1574.	1.0	2
4	Development of Biomedical Implants through Additive Manufacturing: A Review. Journal of Materials Engineering and Performance, 2021, 30, 4735-4744.	1.2	44
5	Statistical modelling and analysis of material removal rate and surface roughness during wire electrical discharge hybrid turning (WEDHT) process. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	3
6	Multi Objective Study on Machining Characteristics of AISI H-11 Tool Steel Prepared by Different Processing Techniques. Journal European Des Systemes Automatises, 2021, 54, 243-251.	0.3	0
7	A review on post processing techniques of additively manufactured metal parts for improving the material properties. Materials Today: Proceedings, 2021, 46, 1429-1436.	0.9	37
8	Application of Grey Theory and Fuzzy Logic to Optimize Machining Parameters of Zircon Sand Reinforced Aluminum Composites. Lecture Notes in Mechanical Engineering, 2021, , 653-662.	0.3	3
9	Machinability studies on aluminium matrix nanocomposite under the influence of MQL. Materials Today: Proceedings, 2020, 22, 1507-1516.	0.9	9
10	Machining of Ti-6Al-4V using diffusion annealed zinc-coated brass wire in WEDHT. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	5
11	Corrosion behaviour of novel molten salt processed aluminium nanocomposites under different treated conditions. Materials Research Express, 2019, 6, 1150f7.	0.8	0
12	Comparative machining studies on custom 450 alloy with TiCN, TiAlN coated and uncoated carbide tools using Taguchi-Fuzzy logic approach. Materials Research Express, 2019, 6, 066411.	0.8	8
13	Effectiveness evaluation of molten salt processing and ultrasonic cavitation techniques during the production of aluminium based hybrid nanocomposites - An experimental investigation. Journal of Alloys and Compounds, 2018, 751, 183-193.	2.8	25
14	Machinability studies on Al 7075/BN/Al ₂ O ₃ squeeze cast hybrid nanocomposite under different machining environments. Materials and Manufacturing Processes, 2018, 33, 587-595.	2.7	45
15	Improvement of Machinability Using Eco-Friendly Cutting Oil in Turning Duplex Stainless Steel. Materials Today: Proceedings, 2018, 5, 12303-12310.	0.9	14
16	Estimation of optimum machining parameters and surface characterization for WEDM of AA7075/10/Al ₂ O ₃ (p) MMC through multi-objective optimization. Materials Today: Proceedings, 2018, 5, 12330-12338.	0.9	5
17	An investigation on the tribological characteristics of Al 7075 based single and hybrid nanocomposites. Materials Today: Proceedings, 2018, 5, 12837-12847.	0.9	13
18	A Comprehensive Review on Wire Electrical Discharge Based Hybrid Turning (WEDHT). Materials Today: Proceedings, 2018, 5, 12273-12284.	0.9	11

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19	A Review of Research Scope on Sustainable and Eco-Friendly Electrical Discharge Machining (E-EDM). <i>Materials Today: Proceedings</i> , 2018, 5, 12525-12533.	0.9	21
20	Response optimisation in wire electrical discharge machining of AISI H11 tool steel using Taguchi - GRA approach. <i>International Journal of Machining and Machinability of Materials</i> , 2018, 20, 474.	0.1	3
21	Mechanical and tribological behaviour of molten salt processed self-lubricated aluminium composite under different treatments. <i>Materials Research Express</i> , 2018, 5, 055040.	0.8	7
22	Comparative evaluation of performances of TiAlN, AlCrN, TiAlN/AlCrN coated carbide cutting tools and uncoated carbide cutting tools on turning Inconel 825 alloy using Grey Relational Analysis. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 331-342.	2.0	38
23	Advanced liquid state processing techniques for ex-situ discontinuous particle reinforced nanocomposites: A review. <i>Science and Technology of Materials</i> , 2018, 30, 109-119.	0.8	8
24	Optimization of Stir Casting Parameters for Manufacturing Aluminium Based Nanocomposites Through Numerical Investigation. <i>Advanced Science Letters</i> , 2018, 24, 5816-5820.	0.2	1
25	Response optimisation in wire electrical discharge machining of AISI H11 tool steel using Taguchi - GRA approach. <i>International Journal of Machining and Machinability of Materials</i> , 2018, 20, 474.	0.1	7
26	Comparative study on the mechanical and microstructural characterisation of AA 7075 nano and hybrid nanocomposites produced by stir and squeeze casting. <i>Journal of Advanced Research</i> , 2017, 8, 309-319.	4.4	146
27	Investigation of machinability characteristics and chip morphology study in laser-assisted machining of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 3807-3821.	1.5	38
28	Statistical approach for optimization of influencing parameters in laser assisted machining (LAM) of Inconel alloy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 89, 97-108.	2.5	40
29	Optimisation of machining parameters in laser aided hybrid machining of Inconel 718. <i>International Journal of Machining and Machinability of Materials</i> , 2016, 18, 252.	0.1	18
30	Improvement of Machinability using Laser-Aided Hybrid Machining for Inconel 718 Alloy. <i>Materials and Manufacturing Processes</i> , 2016, 31, 1825-1835.	2.7	28
31	Parametric modeling and optimization of laser scanning parameters during laser assisted machining of Inconel 718. <i>Optics and Laser Technology</i> , 2016, 78, 10-18.	2.2	80
32	Analysis of Cutting Forces and Temperature in Laser Assisted Machining of Inconel 718 Using Taguchi Method. <i>Procedia Engineering</i> , 2014, 97, 1637-1646.	1.2	56
33	Optimization of the Pulsed Current Gas Tungsten Arc Welding Process Parameters for alloy C-276 using the Taguchi Method. <i>Procedia Engineering</i> , 2014, 97, 767-774.	1.2	13
34	Comparative Study of Composites Reinforced With SiC and TiB2. <i>Procedia Engineering</i> , 2014, 97, 1012-1017.	1.2	49
35	Optimization of Machining Parameters Using Fuzzy Based Principal Component Analysis during dry turning operation of Inconel 625 – A hybrid approach. <i>Procedia Engineering</i> , 2014, 97, 668-676.	1.2	29
36	Study of Cutting force and Surface Roughness in machining of Al alloy Hybrid Composite and Optimized using Response Surface Methodology. <i>Procedia Engineering</i> , 2014, 97, 677-686.	1.2	48

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37	Fabrication, Surface Morphology and Corrosion Investigation of Al 7075-Al ₂ O ₃ Matrix Composite in Sea Water and Industrial Environment. Procedia Engineering, 2014, 97, 607-613.	1.2	25
38	Hybrid Aluminium Metal Matrix Composite Reinforced with SiC and TiB ₂ . Procedia Engineering, 2014, 97, 1018-1026.	1.2	100
39	Preparation, Characterization and Machinability of Al ₇₀₇₅ -Al ₂ O ₃ Matrix Composite Using Multi Layer Coated Carbide Insert. , 2014, 5, 1819-1828.		6
40	Laser Assisted Machining of Difficult to Cut Materials: Research Opportunities and Future Directions - A Comprehensive Review. Procedia Engineering, 2014, 97, 1626-1636.	1.2	69
41	Modeling and Optimization of Cutting Parameters in Dry Turning of Inconel 718 Using Coated Carbide Inserts. , 2014, 5, 2550-2559.		20
42	Optimization of Machining Parameters for end Milling of Inconel 718 Super Alloy Using Taguchi based Grey Relational Analysis. Procedia Engineering, 2013, 64, 1276-1282.	1.2	119
43	Fabrication and turning of Al/SiC/B ₄ C hybrid metal matrix composites optimization using desirability analysis. Journal of the Chinese Institute of Industrial Engineers, 2012, 29, 515-525.	0.5	21
44	Optimization of cutting parameters for turning Al-SiC(10p) MMC using ANOVA and grey relational analysis. International Journal of Precision Engineering and Manufacturing, 2011, 12, 651-656.	1.1	86
45	Controlling NO _x Emission of Crude Rice Bran Oil Blend for Sustainable Environment. Clean - Soil, Air, Water, 2011, 39, 515-521.	0.7	10
46	Application of Taguchi's orthogonal array in reducing the NO _x emission of a stationary diesel engine. International Journal of Oil, Gas and Coal Technology, 2011, 4, 398.	0.1	7
47	Optimization of Process Parameters for Electro Discharge Machining of Al ₇₀₇₅ -Al ₂ O ₃ Nano Composite Using Different Electrode Materials. , 0, , .		0
48	CHARACTERIZATION AND ELECTROCHEMICAL CORROSION ANALYSIS OF HEAT-TREATED REINFORCED HA COATINGS DEPOSITED BY VACUUM PLASMA SPRAY TECHNIQUE. Surface Review and Letters, 0, , 2141003.	0.5	0