

Rahul Davis

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

329
citations

1163117

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h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

210
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on metallic implant biomaterials and their subtractive manufacturing. International Journal of Advanced Manufacturing Technology, 2022, 120, 1473-1530.	3.0	95
2	State of the art of tool texturing in machining. Journal of Materials Processing Technology, 2021, 293, 117096.	6.3	51
3	Application of Taguchi-Based Design of Experiments for Industrial Chemical Processes. , 0, , .		39
4	A comprehensive review on additive manufacturing of medical devices. Progress in Additive Manufacturing, 2021, 6, 517-553.	4.8	35
5	Enhanced Micro-Electric Discharge Machining-Induced Surface Modification on Biomedical Ti-6Al-4V Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	2.2	16
6	Surface Modification of Medical-Grade Ni55.6Ti44.4 alloy via enhanced machining characteristics of Zn Powder Mixed- μ -EDM. Surface and Coatings Technology, 2021, 425, 127725.	4.8	15
7	Effect of Powder Particle Concentration and Tool Electrode Material amid Zinc Powder-Mixed μ EDM of Biocompatible Mg Alloy AZ91D. Journal of Materials Engineering and Performance, 2021, 30, 5704-5718.	2.5	11
8	Tailoring Surface Integrity of Biomedical Mg Alloy AZ31B Using Distinct End Mill Treatment Conditions and Machining Environments. Journal of Materials Engineering and Performance, 2020, 29, 7617-7635.	2.5	10
9	Effect of Tool Geometry on the Machining Characteristics amid SiC Powder Mixed Electric Discharge Drilling of Hybrid Metal Matrix Composite. Silicon, 2022, 14, 27-45.	3.3	9
10	Performance study of electrical discharge machining process in burr removal of drilled holes in Al 7075. Cogent Engineering, 2016, 3, 1270702.	2.2	8
11	Performance Investigation of Cryo-treated End Mill on the Mechanical and in vitro behavior of Hybrid-lubri-coolant-milled Ti-6Al-4V alloy. Journal of Manufacturing Processes, 2021, 71, 472-488.	5.9	8
12	Performance Study of Cryo-Treated End Mill Via Wet, Cryogenic, and Hybrid Lubri-Coolant-Milling Induced Surface Integrity of Biocompatible Mg Alloy AZ91D. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 7045-7061.	2.1	7
13	Effect of input variables and cryogenic treatment in wire electric discharge machining of Ti-6Al-4V alloy for biomedical applications. Materials Today: Proceedings, 2020, 27, 2503-2507.	1.8	6
14	An Experimental Study of the Effect of Thermal Treatments & Charpy Impact Test Parameters on Impact Toughness of EN31 Steel. IOSR Journal of Mechanical and Civil Engineering, 2014, 11, 17-22.	0.1	5
15	Influence of cryogenic treatment on the performance of micro-EDM tool electrode in machining of magnesium alloy AZ31B. Materials Today: Proceedings, 2021, 39, 1198-1201.	1.8	4
16	Design and fabrication of dental implant prototypes using additive manufacturing. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012041.	0.6	3
17	Experimental Investigation of the Effect of Input Control Variables in Near Dry Electric Discharge Drilling Process. Materials Today: Proceedings, 2019, 18, 3027-3033.	1.8	3
18	A Comparative Study of EDD and PM-EDD in Producing Holes in Inconel 718 Alloy. Key Engineering Materials, 0, 833, 48-53.	0.4	3

#	ARTICLE	IF	CITATIONS
19	Surface Characteristics Enhancement of Biocompatible Mg Alloy AZ31B by Cryogenic Milling. IOP Conference Series: Materials Science and Engineering, 0, 1004, 012011.	0.6	1
20	Application of Taguchi Design of Experiment Method in Optimization of Izod Impact Testing. Applied Mechanics and Materials, 0, 541-542, 663-668.	0.2	0
21	Optimization of Input Control Variables in Electric Discharge Machining of Inconel-718. Lecture Notes in Mechanical Engineering, 2020, , 541-549.	0.4	0