

Harshit K Dave

List of Publications by Year in descending order

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55
papers

713
citations

687363

13
h-index

580821

25
g-index

60
all docs

60
docs citations

60
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of process parameters on tensile strength of FDM printed PLA part. Rapid Prototyping Journal, 2018, 24, 1317-1324.	3.2	131
2	Analysis of tensile strength of a fused filament fabricated PLA part using an open-source 3D printer. International Journal of Advanced Manufacturing Technology, 2019, 101, 1525-1536.	3.0	91
3	Flexural strength of fused filament fabricated (FFF) PLA parts on an open-source 3D printer. Advances in Manufacturing, 2018, 6, 430-441.	6.1	72
4	Effect of infill pattern and infill density at varying part orientation on tensile properties of fused deposition modeling-printed poly-lactic acid part. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1811-1827.	2.1	66
5	Effect of fiber volume fraction on the impact strength of fiber reinforced polymer composites made by FDM process. Materials Today: Proceedings, 2021, 44, 2102-2106.	1.8	24
6	Effect of multi-infill patterns on tensile behavior of FDM printed parts. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	20
7	Effect of machining conditions on MRR and surface roughness during CNC Turning of different Materials Using TiN Coated Cutting Tools – A Taguchi approach. International Journal of Industrial Engineering Computations, 2012, 3, 925-930.	0.7	19
8	Experimental investigations on EDM of Ti6Al4V with planetary tool actuation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3467-3490.	1.6	19
9	Impact strength of 3D printed PLA using open source FFF-based 3D printer. Progress in Additive Manufacturing, 2021, 6, 119-131.	4.8	19
10	Studies on quality of microholes generated on Al 1100 using micro-electro-discharge machining process. International Journal of Advanced Manufacturing Technology, 2015, 76, 127-140.	3.0	17
11	Open hole tensile testing of 3D printed parts using in-house fabricated PLA filament. Rapid Prototyping Journal, 2020, 26, 21-31.	3.2	17
12	An Experimental Study on Mechanical, Thermal and Flame-Retardant Properties of 3D-Printed Glass-Fiber-Reinforced Polymer Composites. Journal of Materials Engineering and Performance, 2021, 30, 5266-5277.	2.5	17
13	Investigation on tensile strength and failure modes of FDM printed part using in-house fabricated PLA filament. Advances in Materials and Processing Technologies, 2022, 8, 576-597.	1.4	16
14	A Taguchi approach-based study on effect of process parameters in electro discharge machining using orbital tool movement. International Journal of Machining and Machinability of Materials, 2013, 13, 52.	0.1	15
15	An analytical model for bending and springback of bimetallic sheets. Mechanics of Advanced Materials and Structures, 2016, 23, 80-88.	2.6	14
16	Experimental investigation on performance of different tool movement strategies in EDM process for boring operation. International Journal of Advanced Manufacturing Technology, 2016, 87, 1609-1620.	3.0	14
17	Effect of fiber reinforcement on the open hole tensile strength of 3D printed composites. Materials Today: Proceedings, 2021, 46, 8629-8633.	1.8	14
18	Development of semi empirical model for predicting material removal rate during orbital electro discharge machining of Inconel 718. International Journal of Machining and Machinability of Materials, 2013, 13, 215.	0.1	13

#	ARTICLE	IF	CITATIONS
19	End wear compensation during planetary EDM of Ti-6Al-4V by adaptive neuro fuzzy inference system. Production Engineering, 2018, 12, 1-10.	2.3	11
20	Experimental investigation of jatropha curcas bio-oil and biodiesel in electric discharge machining of Ti-6Al-4V. Materials Today: Proceedings, 2021, 38, 2102-2109.	1.8	10
21	Study on effect of process parameters on overcut and tool wear rate during micro-electro-discharge slotting process. International Journal of Advanced Manufacturing Technology, 2016, 85, 2049-2060.	3.0	9
22	Introduction to Fused Deposition Modeling Based 3D Printing Process. Materials Forming, Machining and Tribology, 2021, , 1-21.	1.1	8
23	Optimisation of multiple response characteristics in orbital electro discharge machining of Inconel 718 using Taguchi's loss function. International Journal of Manufacturing Technology and Management, 2012, 25, 78.	0.1	7
24	Effect of Build Orientation on Mechanical Strength of FDM Printed PLA. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 301-307.	0.6	7
25	Experimental investigation on the quality of electric discharge machined Ti-6Al-4V using bio-oil and biodiesel. Materials Today: Proceedings, 2021, 38, 2249-2255.	1.8	6
26	Effect of fiber orientation on tensile strength of thin composites. Materials Today: Proceedings, 2021, 46, 8634-8638.	1.8	6
27	Specific energy absorption during compression testing of ABS and FPU parts fabricated using LCD-SLA based 3D printer. Rapid Prototyping Journal, 2022, 28, 1530-1540.	3.2	6
28	Generation of Square Cavity Using Planetary EDM. Advanced Materials Research, 2014, 1036, 314-319.	0.3	5
29	Prediction of tensile strength of fused deposition modeling (FDM) printed PLA using classic laminate theory. Engineering Solid Mechanics, 2022, 10, 13-24.	1.2	5
30	Modelling of cutting forces as a function of cutting parameters in milling process using regression analysis and artificial neural network. International Journal of Machining and Machinability of Materials, 2010, 8, 198.	0.1	4
31	Study on effect of tool motion strategies on tool wear characteristics during generation of non-circular cavities by electro discharge machining process. International Journal of Machining and Machinability of Materials, 2015, 17, 150.	0.1	4
32	A Parametric study of radial tool actuation in orbital EDM. Advances in Materials and Processing Technologies, 2015, 1, 394-403.	1.4	4
33	Study of Earing Defect during Deep Drawing Process with Finite Element Simulation. Key Engineering Materials, 0, 639, 91-98.	0.4	3
34	Ultrasonic Welding of Molybdenum Using Aluminium Interlayer. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 669-677.	0.6	3
35	Analysis of dimensional inaccuracies in square cavities generated on Ti-6Al-4V using planetary EDM. International Journal of Materials and Product Technology, 2018, 56, 108.	0.2	2
36	Analysis of Compressive Strength of 3D Printed PLA Part. Lecture Notes in Mechanical Engineering, 2021, , 295-304.	0.4	2

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37	Methodology for database development for electro discharge boring of aerospace material. International Journal of Materials and Product Technology, 2018, 56, 295.	0.2	1
38	Characterisation and modelling of tool electrode wear during planetary EDM of titanium grade 5 alloy. International Journal of Manufacturing Technology and Management, 2020, 34, 445.	0.1	1
39	An experimental and simulation-based analysis of resin flow front during fabrication of lightweight composite components using VARTM process. International Journal of Materials Engineering Innovation, 2021, 12, 149.	0.5	1
40	Application of Neural Network to Predict Printability of Polycaprolactone Using FDM. Lecture Notes in Mechanical Engineering, 2021, , 263-276.	0.4	1
41	Study on Effect of Process Parameters on End Wear of Tool Electrode during Planetary EDM of Ti-6Al-4V. International Journal of Materials Mechanics and Manufacturing, 2017, 5, 159-163.	0.2	1
42	Influence of Fiber Orientation and Number of Layer on Tensile and Flexural Strength of Carbon Fiber-Reinforced Composites Fabricated by VARTM Process. Lecture Notes in Mechanical Engineering, 2021, , 421-430.	0.4	1
43	Thinning analysis for hot forming of single-piece hemispherical dish end using finite element simulation and its empirical modeling. International Journal of Material Forming, 2013, 6, 115-124.	2.0	0
44	Micro Slot Generation by $\frac{1}{4}$ -ED Milling. IOP Conference Series: Materials Science and Engineering, 2016, 145, 072009.	0.6	0
45	Development of a model to compensate overcut during electro discharge boring process. International Journal of Manufacturing Research, 2019, 14, 373.	0.2	0
46	Acoustic Emission System for Monitoring Mechanical Behavior During Ultrasonic Metal Welding. Lecture Notes in Mechanical Engineering, 2021, , 319-327.	0.4	0
47	Parametric Study of Electro Discharge Boring of Inconel 718 with Radial Tool Movement Using Taguchi Method. Materials Forming, Machining and Tribology, 2021, , 253-275.	1.1	0
48	ANFIS-Based Prediction Model for Tool Wear Criteria During Orbital Electrical Discharge Machining of Ti6Al4V. Lecture Notes in Mechanical Engineering, 2021, , 277-291.	0.4	0
49	Methodology for database development for electro discharge boring of aerospace material. International Journal of Materials and Product Technology, 2018, 56, 295.	0.2	0
50	Analysis of dimensional inaccuracies in square cavities generated on Ti-6Al-4V using planetary EDM. International Journal of Materials and Product Technology, 2018, 56, 108.	0.2	0
51	Experimental and Simulation Study on Permeability of Hybrid Composite. Lecture Notes in Mechanical Engineering, 2021, , 397-409.	0.4	0
52	Impact and Flexural Testing of Jute and Flax Fiber Reinforced Composites Fabricated by VARTM Process. Lecture Notes in Mechanical Engineering, 2021, , 411-420.	0.4	0
53	A Comparative Study of Electro-discharge Drilling Process Using Solid and Tubular Electrodes. Lecture Notes in Mechanical Engineering, 2021, , 29-35.	0.4	0
54	Tensile Strength of 3D Printed PLA Part. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 103-114.	0.6	0

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55	Characterisation and modelling of tool electrode wear during planetary EDM of titanium grade 5 alloy. International Journal of Manufacturing Technology and Management, 2020, 34, 445.	0.1	0