

Harlal Singh Mali

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

974
citations

471509
17
h-index

501196
28
g-index

60
all docs

60
docs citations

60
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensional accuracy and surface quality of micro-channels with low-frequency vibration assistance in micro-electro-discharge milling. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 863-874.	1.4	3
2	Workpiece Dependency Exploration & Probabilistic Nonparametric Modelling of Vibration-Assisted Hybrid Micro-EDM Process. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 15331-15345.	3.0	2
3	Artificial intelligence techniques for implementation of intelligent machining. <i>Materials Today: Proceedings</i> , 2022, 56, 1947-1955.	1.8	11
4	A critical review of modeling and simulation techniques for loose abrasive based machining processes. <i>Materials Today: Proceedings</i> , 2022, 56, 2016-2024.	1.8	4
5	Material independent effectiveness of workpiece vibration in $\hat{1}/4$ -EDM drilling. <i>Journal of Materials Research and Technology</i> , 2022, 18, 531-546.	5.8	10
6	High entropy alloy synthesis, characterisation, manufacturing & potential applications: a review. <i>Materials and Manufacturing Processes</i> , 2022, 37, 1085-1109.	4.7	19
7	Application of Generalized Regression Neural Network and Gaussian Process Regression for Modelling Hybrid Micro-Electric Discharge Machining: A Comparative Study. <i>Processes</i> , 2022, 10, 755.	2.8	8
8	Surface characteristics improvement methods for metal additively manufactured parts: a review. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 4524-4563.	1.4	11
9	Dynamic mechanical behaviour of kevlar and carbon-kevlar hybrid fibre reinforced polymer composites. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 4181-4193.	2.1	12
10	Materials and design for drogue detection in air-to-air refueling. <i>Materials Today: Proceedings</i> , 2021, 44, 4503-4508.	1.8	4
11	Mechanical behavior and fracture toughness characterization of high strength fiber reinforced polymer textile composites. <i>Iranian Polymer Journal (English Edition)</i> , 2021, 30, 193-233.	2.4	12
12	Development of Centreless Electric Discharge Grinding Machining Process and Optimization of Process Parameters. <i>Recent Patents on Engineering</i> , 2021, 15, .	0.4	0
13	Numerical investigation of heat transfer in structured rough microchannels subjected to pulsed flow. <i>Applied Thermal Engineering</i> , 2021, 197, 117361.	6.0	12
14	Metallic implants and their surface modification using electric discharge machining: a review. <i>International Journal of Materials Engineering Innovation</i> , 2021, 12, 276.	0.5	0
15	CAD/CAE of Jaipur foot for standardized and contemporary manufacturing. <i>Disability and Rehabilitation: Assistive Technology</i> , 2020, 15, 219-224.	2.2	2
16	Experimental Investigation on Centreless Electro Discharge Texturing of Thin Walled Inconel-600 Tubes. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2020, 10, 34-61.	0.4	1
17	Tensile performance of additively manufactured short carbon fibre-PLA composites: neural networking and GA for prediction and optimisation. <i>Plastics, Rubber and Composites</i> , 2020, 49, 271-280.	2.0	10
18	Geometric modeling and finite element analysis of kevlar monolithic and carbon-kevlar hybrid woven fabric unit cell. <i>Materials Today: Proceedings</i> , 2020, 26, 766-774.	1.8	10

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19	Fabrication of Customized Ankle Foot Orthosis (AFO) by Reverse Engineering Using Fused Deposition Modelling. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 3-15.	0.6	1
20	Design, Fabrication and Simulation of Micro-EDM Machined AISI 316 SS Micro-channel Heat Sink. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 385-394.	0.6	0
21	Mesoscale Numerical Characterization of Kevlar and Carbon Kevlar Hybrid Plain-Woven Fabric Compression Behavior. Journal of Materials Engineering and Performance, 2019, 28, 5749-5762.	2.5	10
22	Microfeatures and microfabrication: current role of micro-electric discharge machining. Journal of Micromechanics and Microengineering, 2019, 29, 043002.	2.6	8
23	High strength Kevlar fiber reinforced advanced textile composites. Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBJ /Overl	2.4	24
24	Accuracy and quality of micro-holes in vibration assisted micro-electro-discharge drilling of Inconel 718. Measurement: Journal of the International Measurement Confederation, 2019, 135, 424-437.	5.0	36
25	Recent developments in abrasive flow finishing process: A review of current research and future prospects. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 388-399.	2.4	47
26	Parametric optimization and surface analysis of diamond grinding-assisted EDM of TiN-Al ₂ O ₃ ceramic composite. International Journal of Advanced Manufacturing Technology, 2019, 100, 1183-1192.	3.0	12
27	Effect of Different Electrodes on Micro-feature Fabrication in Biomedical Co-29Cr-6Mo Alloy Machined Using μ -EDM Process. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 249-257.	0.6	1
28	Micro-tool Fabrication and Micro-ED Milling of Titanium Nitride Alumina Ceramic Composite. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 259-267.	0.6	0
29	Assessment of the compressive and tensile mechanical properties of materials used in the Jaipur Foot prosthesis. Prosthetics and Orthotics International, 2018, 42, 511-517.	1.0	2
30	Epidemiological study of failures of the Jaipur Foot. Disability and Rehabilitation: Assistive Technology, 2018, 13, 740-744.	2.2	3
31	Fuzzy logic-based model for predicting material removal rate and average surface roughness of machined Nimonic 80A using abrasive-mixed electro-discharge diamond surface grinding. Neural Computing and Applications, 2018, 29, 647-662.	5.6	22
32	Experimental investigation on unidirectional abrasive flow machining of trim die workpiece. Materials and Manufacturing Processes, 2018, 33, 651-660.	4.7	27
33	A study on effects of discharge energy on geometric characteristics of high aspect ratio micro-holes on TiN-Al ₂ O ₃ ceramics. Materials Today: Proceedings, 2018, 5, 17828-17837.	1.8	4
34	ANN-NSGA-II dual approach for modeling and optimization in abrasive mixed electro discharge diamond grinding of Monel K-500. Engineering Science and Technology, an International Journal, 2018, 21, 322-329.	3.2	16
35	Experimental investigation on low-frequency vibration-assisted μ -ED milling of Inconel 718. Materials and Manufacturing Processes, 2018, 33, 964-976.	4.7	32
36	Comparative investigation of physical, mechanical and thermomechanical characterization of dental composite filled with nanohydroxyapatite and mineral trioxide aggregate. E-Polymers, 2017, 17, 311-319.	3.0	13

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37	Parametric modeling and optimization for abrasive mixed surface electro discharge diamond grinding of Inconel 718 using response surface methodology. International Journal of Advanced Manufacturing Technology, 2017, 93, 3859-3872.	3.0	23
38	High-Strength Hybrid Textile Composites with Carbon, Kevlar, and E-Glass Fibers for Impact-Resistant Structures. A Review.. Mechanics of Composite Materials, 2017, 53, 685-704.	1.4	66
39	Experimental investigation on low-frequency vibration assisted micro-WEDM of Inconel 718. Engineering Science and Technology, an International Journal, 2017, 20, 222-231.	3.2	37
40	Design and Fabrication of a Strain Gauge Type 3-axis Milling Tool Dynamometer. International Journal of Materials Forming and Machining Processes, 2016, 3, 1-15.	0.6	2
41	A study of multiobjective parametric optimisation of electric discharge diamond cut-off grinding of Inconel 718. International Journal of Abrasive Technology, 2016, 7, 187.	0.2	8
42	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. Materials and Manufacturing Processes, 2016, 31, 1718-1723.	4.7	18
43	Artificial neural networkâ€‘based and response surface methodologyâ€‘based predictive models for material removal rate and surface roughness during electro-discharge diamond grinding of Inconel 718. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 2082-2091.	2.4	30
44	Finite element analysis of quasiâ€‘static indentation of woven fabric textile composites using different nose shape indenters. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 1014-1028.	0.9	5
45	Investigation of the Thermomechanical Behavior of a 2 Ã— 2 Twill Weave Fabric Advanced Textile Composite. Mechanics of Composite Materials, 2015, 51, 253-264.	1.4	12
46	Current status and applications of hybrid micro-machining processes: A review. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1681-1693.	2.4	59
47	Finite Element Compression Modelling of 2x2 Twill Woven Fabric Textile Composite. , 2014, 6, 1143-1149.		10
48	Finite Element (FE) Shear Modeling of Woven Fabric Textile Composite. , 2014, 6, 1344-1350.		11
49	Compression modeling of plain weave textile fabric using finite elements. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 600-610.	0.9	13
50	Tensile Test Simulation of CFRP Test Specimen Using Finite Elements. , 2014, 5, 267-273.		23
51	A Micromechanical Unit Cell Model of 2Ã—2 Twill Woven Fabric Textile Composite for Multi Scale Analysis. Journal of the Institution of Engineers (India): Series E, 2014, 95, 1-9.	0.9	16
52	Unit Cell Model of Woven Fabric Textile Composite for Multiscale Analysis. Procedia Engineering, 2013, 68, 352-358.	1.2	41
53	Modeling techniques for predicting the mechanical properties of woven-fabric textile composites: a Review. Mechanics of Composite Materials, 2013, 49, 1-20.	1.4	107
54	Simulation of surface generated during abrasive flow finishing of Al/SiCp-MMC using neural networks. International Journal of Advanced Manufacturing Technology, 2012, 61, 1263-1268.	3.0	23

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55	Optimum selection of abrasive flow machining conditions during fine finishing of Al/15wt% SiC-MMC using Taguchi method. International Journal of Advanced Manufacturing Technology, 2010, 50, 1013-1024.	3.0	41
56	Current status and application of abrasive flow finishing processes: A review. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 809-820.	2.4	36
57	Experimental Investigation during Finishing of Al/SiC-MMC's by Abrasive Flow Machining (AFM) Process. Advanced Materials Research, 0, 264-265, 1130-1136.	0.3	1
58	Pulsed-flow microchannel heat sink: Simulation and experimental validation. Journal of Micromanufacturing, 0, , 251659842110586.	1.1	1