Harlal Singh Mali

List of Publications by Year
in descending order

58	974	471509 17	501196 28
papers	citations	h-index	g-index

60	60	60	686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Optimum selection of abrasive flow machining conditions during fine finishing of Al/15Âwt% SiC-MMC using Taguchi method. International Journal of Advanced Manufacturing Technology, 2010, 50, 1013-1024.	3.0	41
6	Unit Cell Model of Woven Fabric Textile Composite for Multiscale Analysis. Procedia Engineering, 2013, 68, 352-358.	1.2	41
7	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
8	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
9	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
10	Experimental investigation on low-frequency vibration-assisted Âµ-ED milling of Inconel 718. Materials and Manufacturing Processes, 2018, 33, 964-976.	4.7	32
11	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
12	Experimental investigation on unidirectional abrasive flow machining of trim die workpiece. Materials and Manufacturing Processes, 2018, 33, 651-660.	4.7	27
13	High strength Kevlar fiber reinforced advanced textile composites. Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	24
14	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
15	Tensile Test Simulation of CFRP Test Specimen Using Finite Elements. , 2014, 5, 267-273.		23
16	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
17	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
18	High entropy alloy synthesis, characterisation, manufacturing & potential applications: a review. Materials and Manufacturing Processes, 2022, 37, 1085-1109.	4.7	19

#	Article	IF	Citations
19	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. Materials and Manufacturing Processes, 2016, 31, 1718-1723.	4.7	18
20	A Micromechanical Unit Cell Model of 2ÂÃ—Â2 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
21	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
22	Compression modeling of plain weave textile fabric using finite elements. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 600-610.	0.9	13
23	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
24	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
25	Parametric optimization and surface analysis of diamond grinding-assisted EDM of TiN-Al2O3 ceramic composite. International Journal of Advanced Manufacturing Technology, 2019, 100, 1183-1192.	3.0	12
26	Dynamic mechanical behaviour of kevlar and carbon-kevlar hybrid fibre reinforced polymer composites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4181-4193.	2.1	12
27	Mechanical behavior and fracture toughness characterization of high strength fiber reinforced polymer textile composites. Iranian Polymer Journal (English Edition), 2021, 30, 193-233.	2.4	12
28	Numerical investigation of heat transfer in structured rough microchannels subjected to pulsed flow. Applied Thermal Engineering, 2021, 197, 117361.	6.0	12
29	Finite Element (FE) Shear Modeling of Woven Fabric Textile Composite. , 2014, 6, 1344-1350.		11
30	Artificial intelligence techniques for implementation of intelligent machining. Materials Today: Proceedings, 2022, 56, 1947-1955.	1.8	11
31	Surface characteristics improvement methods for metal additively manufactured parts: a review. Advances in Materials and Processing Technologies, 2022, 8, 4524-4563.	1.4	11
32	Finite Element Compression Modelling of 2x2 Twill Woven Fabric Textile Composite. , 2014, 6, 1143-1149.		10
33	Mesoscale Numerical Characterization of Kevlar and Carbonâ€“Kevlar Hybrid Plain-Woven Fabric Compression Behavior. Journal of Materials Engineering and Performance, 2019, 28, 5749-5762.	2.5	10
34	Tensile performance of additively manufactured short carbon fibre-PLA composites: neural networking and GA for prediction and optimisation. Plastics, Rubber and Composites, 2020, 49, 271-280.	2.0	10
35	Geometric modeling and finite element analysis of kevlar monolithic and carbon-kevlar hybrid woven fabric unit cell. Materials Today: Proceedings, 2020, 26, 766-774.	1.8	10
36	Material independent effectiveness of workpiece vibration in Î¼-EDM drilling. Journal of Materials Research and Technology, 2022, 18, 531-546.	5.8	10

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37	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
38	Microfeatures and microfabrication: current role of micro-electric discharge machining. Journal of Micromechanics and Microengineering, 2019, 29, 043002.	2.6	8
39	Application of Generalized Regression Neural Network and Gaussian Process Regression for Modelling Hybrid Micro-Electric Discharge Machining: A Comparative Study. Processes, 2022, 10, 755.	2.8	8
40	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
41	A study on effects of discharge energy on geometric characteristics of high aspect ratio micro-holes on TiN-Al2O3 ceramics. Materials Today: Proceedings, 2018, 5, 17828-17837.	1.8	4
42	Materials and design for drogue detection in air-to-air refueling. Materials Today: Proceedings, 2021, 44, 4503-4508.	1.8	4
43	A critical review of modeling and simulation techniques for loose abrasive based machining processes. Materials Today: Proceedings, 2022, 56, 2016-2024.	1.8	4
44	Epidemiological study of failures of the Jaipur Foot. Disability and Rehabilitation: Assistive Technology, 2018, 13, 740-744.	2.2	3
45	Dimensional accuracy and surface quality of micro-channels with low-frequency vibration assistance in micro-electro-discharge milling. Advances in Materials and Processing Technologies, 2022, 8, 863-874.	1.4	3
46	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
47	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
48	CAD/CAE of Jaipur foot for standardized and contemporary manufacturing. Disability and Rehabilitation: Assistive Technology, 2020, 15, 219-224.	2.2	2
49	Workpiece Dependency Exploration & Probabilistic Nonparametric Modelling of Vibration-Assisted Hybrid Micro-EDM Process. Arabian Journal for Science and Engineering, 2022, 47, 15331-15345.	3.0	2
50	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
51	Experimental Investigation on Centreless Electro Discharge Texturing of Thin Walled Inconel-600 Tubes. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2020, 10, 34-61.	0.4	1
52	Effect of Different Electrodes on Micro-feature Fabrication in Biomedical Co-29Cr-6Mo Alloy Machined Using Âµ-EDM Process. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 249-257.	0.6	1
53	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
54	Pulsed-flow microchannel heat sink: Simulation and experimental validation. Journal of Micromanufacturing, 0, , 251659842110586.	1.1	1

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55	Development of Centreless Electric Discharge Grinding Machining Process and Optimization of Process Parameters. Recent Patents on Engineering, 2021, 15, .	0.4	0
56	Micro-tool Fabrication and Micro-ED Milling of Titanium Nitride Alumina Ceramicâ€“Composite. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 259-267.	0.6	0
57	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
58	Metallic implants and their surface modification using electric discharge machining: a review. International Journal of Materials Engineering Innovation, 2021, 12, 276.	0.5	0