Jianhua Zhang

List of Publications by Year
in descending order

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60	993	394421	501196
papers	citations	19	28
		h-index	g-index

62	62	62	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computer-aided detection of isomorphism among planar kinematic chains using regression loop-based method. Mechanics Based Design of Structures and Machines, 2022, 50, 4348-4362.	4.7	3
2	A new fatigue life prediction method based on nonlinear fatigue cumulative damage generalized expression. Journal of Mechanical Science and Technology, 2022, 36, 205-212.	1.5	4
3	Theoretical and Simulation Analysis on Fabrication of Micro-Textured Surface under Intermittent Cutting Condition by One-Dimensional Ultrasonic Vibration-Assisted Turning. Machines, 2022, 10, 166.	2.2	2
4	Electrochemical behaviour of passivation film formed on SLM-fabricated Hastelloy X superalloy surface in 10Âwt% NaNO3 solution. Corrosion Science, 2022, 206, 110494.	6.6	34
5	Research on a theoretical model of magnetic nondestructive testing for ferromagnetic materials based on the magnetoâ€“mechanical coupling effect. Journal Physics D: Applied Physics, 2021, 54, 415002.	2.8	9
6	Effect of microstructure on the electrochemical dissolution behaviour of HastelloyÂ® X superalloy processed by selective laser melting and heat treatments. Materials and Design, 2021, 206, 109828.	7.0	18
7	A simple and efficient method for isomorphism identification of planar kinematic chains. Soft Computing, 2021, 25, 13263.	3.6	1
8	Laser powder bed fusion of Ni-based Hastelloy X superalloy: Microstructure, anisotropic mechanical properties and strengthening mechanisms. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142076.	5.6	25
9	Mechanical Properties of Special-shaped Mo Fiber Reinforced Mineral-filled Polymer Composite. Fibers and Polymers, 2021, 22, 451-459.	2.1	1
10	Surface Integrity and Friction Performance of Brass H62 Textured by One-Dimensional Ultrasonic Vibration-Assisted Turning. Micromachines, 2021, 12, 1398.	2.9	2
11	Effect of particle type and its surface characteristics on the mechanical properties of particleâ€filled polymer composite for precision machine tools. Polymer Composites, 2020, 41, 972-981.	4.6	6
12	Experimental research on the MRR of ultrasonic vibration aided electric discharge milling of ceramic materials using deionized water as processing medium. Machining Science and Technology, 2020, 24, 136-150.	2.5	6
13	Trajectory planning of a redundant planar manipulator based on joint classification and particle swarm optimization algorithm. Multibody System Dynamics, 2020, 50, 25-43.	2.7	17
14	Mental Fatigue Has Great Impact on the Fractal Dimension of Brain Functional Network. Neural Plasticity, 2020, 2020, 1-11.	2.2	5
15	Design of Full-Ocean-Depth Self-Floating Sampler and Analysis of Factors Affecting Core Penetration Depth. Journal of Ocean University of China, 2020, 19, 1094-1102.	1.2	4
16	Influences of Mo Fibers on Mechanical Properties of Resin Mineral Composites. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 733-742.	1.0	0
17	The impact of mental fatigue on brain activity: a comparative study both in resting state and task state using EEG. BMC Neuroscience, 2020, 21, 20.	1.9	50
18	The Maximum Eigenvalue of the Brain Functional Network Adjacency Matrix: Meaning and Application in Mental Fatigue Evaluation. Brain Sciences, 2020, 10, 92.	2.3	13

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19	Ultrasonic-assisted electrochemical drill-grinding of small holes with high-quality. Journal of Advanced Research, 2020, 23, 151-161.	9.5	27
20	Electrochemical Dissolution Behavior of Nickel-Based Hastelloy X Superalloy at Low Current Densities. IEEE Access, 2020, 8, 62714-62724.	4.2	24
21	Effect of microstructure on the passive behavior of selective laser melting-fabricated Hastelloy X in NaNO3 solution. Materials Characterization, 2020, 165, 110370.	4.4	21
22	Simulation-based multi-machine coordination for high-speed press line. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	7
23	Effective resin content and its effect on the overall performance of polymer concrete for precision machine tools. Construction and Building Materials, 2019, 222, 203-212.	7.2	11
24	An investigation of stress condition in vibration-assisted burnishing. International Journal of Advanced Manufacturing Technology, 2019, 105, 1189-1207.	3.0	16
25	Mechanical Properties of Mo Fiber-reinforced Resin Mineral Composites with Different Mass Ratio of Resin and Hardener. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 383-390.	1.0	2
26	Influence of tool material and geometry on micro-textured surface in radial ultrasonic vibration-assisted turning. International Journal of Mechanical Sciences, 2019, 152, 545-557.	6.7	39
27	Study on the fabrication of micro-textured end face in one-dimensional ultrasonic vibrationâ€“assisted turning. International Journal of Advanced Manufacturing Technology, 2019, 105, 2599-2613.	3.0	9
28	Effects of tool electrode size on surface characteristics in micro-EDM. International Journal of Advanced Manufacturing Technology, 2018, 96, 3909-3916.	3.0	11
29	Experimental investigation on air void and compressive strength optimization of resin mineral composite for precision machine tool. Polymer Composites, 2018, 39, 457-466.	4.6	6
30	Influence of Tool Size on Machining Characteristics of Micro-EDM. Procedia CIRP, 2018, 68, 604-609.	1.9	14
31	Fabrication of micro-textured surface using feed-direction ultrasonic vibration-assisted turning. International Journal of Advanced Manufacturing Technology, 2018, 97, 3849-3857.	3.0	22
32	Effects of grain size of AISI 304 on the machining performances in micro electrical discharge machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 359-366.	2.4	10
33	Feed-direction ultrasonic vibrationâ”assisted milling surface texture formation. Materials and Manufacturing Processes, 2017, 32, 193-198.	4.7	42
34	Effect of glass fiber surface treatment on the mechanical strength of glass fiber reinforced resin mineral composite for machine tool bed. Polymer Composites, 2017, 38, 1559-1570.	4.6	4
35	Experimental study on micro electrical discharge machining of porous stainless steel. International Journal of Advanced Manufacturing Technology, 2017, 90, 2589-2595.	3.0	13
36	A New Method for Human Mental Fatigue Detection with Several EEG Channels. Journal of Medical and Biological Engineering, 2017, 37, 240-247.	1.8	27

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37	Research on the energy distribution of micro EDM by utilization of electro-thermal model. International Journal of Advanced Manufacturing Technology, 2017, 93, 4179-4186.	3.0	20
38	Porosity, mechanical properties, and damping ratio of particulateâ€filled polymer composite for precision machine tools. Journal of Applied Polymer Science, 2017, 134, .	2.6	7
39	Experimental and modeling study on cutting forces of feed direction ultrasonic vibration-assisted milling. International Journal of Advanced Manufacturing Technology, 2017, 90, 709-715.	3.0	22
40	Feasibility Study on Ultrasonic Vibration Assisted Milling for Squamous Surface. Procedia CIRP, 2016, 42, 847-852.	1.9	20
41	Review of size effects in micro electrical discharge machining. Precision Engineering, 2016, 44, 29-40.	3.4	36
42	Experimental research of mechanical behavior of porcine brain tissue under rotational shear stress. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 224-234.	3.1	10
43	Effect of Electrode Size on the Performances of Micro-EDM. Materials and Manufacturing Processes, 2016, 31, 391-396.	4.7	59
44	Effect of Crystallographic Anisotropy on Micro EDM Process. Materials and Manufacturing Processes, 2015, 30, 961-967.	4.7	14
45	Variation of fracture mode in micro-scale laser shock punching. Optics and Laser Technology, 2015, 72, 25-32.	4.6	22
46	Mechanical properties of Mo fiber-reinforced resin mineral composites. Journal of Reinforced Plastics and Composites, 2014, 33, 1813-1822.	3.1	4
47	Studies on friction and wear properties of surface produced by ultrasonic vibration-assisted milling. International Journal of Advanced Manufacturing Technology, 2013, 67, 349-356.	3.0	9
48	Defects of diamond single crystal grown under high temperature and high pressure. Thin Solid Films, 2013, 546, 457-460.	1.8	2
49	Machining efficiency of powder mixed near dry electrical discharge machining based on different material combinations of tool electrode and workpiece electrode. Journal of Manufacturing Processes, 2013, 15, 474-482.	5.9	44
50	Forming process and mechanical properties of fibers-reinforced polymer concrete. Journal of Reinforced Plastics and Composites, 2013, 32, 907-911.	3.1	22
51	A study of surface roughness variation in ultrasonic vibration-assisted milling. International Journal of Advanced Manufacturing Technology, 2012, 58, 553-561.	3.0	80
52	Study on Model of Material Remove Rate During Ultrasonic Vibration Assisted Electrical Discharge Machining in Gas Medium. , 2010, , .		2
53	Adaptive Fuzzy Control System for Electric Discharge Machining Aided Tool Ultrasonic Vibration. , 2010, , .		3
54	Study on vibration alleviating properties of glass fiber reinforced polymer concrete through orthogonal tests. Materials & Design, 2009, 30, 1417-1421.	5.1	53

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55	Tribological properties of pressureless sintered alumina matrix ceramic materials improved by diopside. Journal of the European Ceramic Society, 2008, 28, 199-204.	5.7	12
56	Large-scale fine structural alumina matrix ceramic guideway materials improved by diopside and Fe2O3. Ceramics International, 2008, 34, 263-268.	4.8	6
57	Tribological properties of pressureless sintered advanced alumina matrix ceramic materials improved by Alâ€“Tiâ€“B and diopside. Wear, 2008, 265, 286-291.	3.1	2
58	Addition of Alâ€“Tiâ€“B master alloys to improve the performances of alumina matrix ceramic materials. Ceramics International, 2007, 33, 1319-1324.	4.8	20
59	Addition of Alâ€“Tiâ€“C master alloys and ZrO2 to improve the performance of alumina matrix ceramic materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 426, 31-35.	5.6	3
60	Autonomous Air Duct Cleaning Robot System. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	16