Jianhua Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7412700/publications.pdf

Version: 2024-02-01

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	A study of surface roughness variation in ultrasonic vibration-assisted milling. International Journal of Advanced Manufacturing Technology, 2012, 58, 553-561.	3.0	80
2	Effect of Electrode Size on the Performances of Micro-EDM. Materials and Manufacturing Processes, 2016, 31, 391-396.	4.7	59
3	Study on vibration alleviating properties of glass fiber reinforced polymer concrete through orthogonal tests. Materials & Design, 2009, 30, 1417-1421.	5.1	53
4	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
5	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
6	Feed-direction ultrasonic vibrationâ˜assisted milling surface texture formation. Materials and Manufacturing Processes, 2017, 32, 193-198.	4.7	42
7	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
8	Review of size effects in micro electrical discharge machining. Precision Engineering, 2016, 44, 29-40.	3.4	36
9	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
10	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
11	Ultrasonic-assisted electrochemical drill-grinding of small holes with high-quality. Journal of Advanced Research, 2020, 23, 151-161.	9.5	27
12	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
13	Electrochemical Dissolution Behavior of Nickel-Based Hastelloy X Superalloy at Low Current Densities. IEEE Access, 2020, 8, 62714-62724.	4.2	24
14	Forming process and mechanical properties of fibers-reinforced polymer concrete. Journal of Reinforced Plastics and Composites, 2013, 32, 907-911.	3.1	22
15	Variation of fracture mode in micro-scale laser shock punching. Optics and Laser Technology, 2015, 72, 25-32.	4.6	22
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	Feasibility Study on Ultrasonic Vibration Assisted Milling for Squamous Surface. Procedia CIRP, 2016, 42, 847-852.	1.9	20
21	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
22	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
23	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
24	Autonomous Air Duct Cleaning Robot System. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	16
25	An investigation of stress condition in vibration-assisted burnishing. International Journal of Advanced Manufacturing Technology, 2019, 105, 1189-1207.	3.0	16
26	Effect of Crystallographic Anisotropy on Micro EDM Process. Materials and Manufacturing Processes, 2015, 30, 961-967.	4.7	14
27	Influence of Tool Size on Machining Characteristics of Micro-EDM. Procedia CIRP, 2018, 68, 604-609.	1.9	14
28	Experimental study on micro electrical discharge machining of porous stainless steel. International Journal of Advanced Manufacturing Technology, 2017, 90, 2589-2595.	3.0	13
29	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
30	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
31	Effects of tool electrode size on surface characteristics in micro-EDM. International Journal of Advanced Manufacturing Technology, 2018, 96, 3909-3916.	3.0	11
32	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
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	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
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	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
40	Large-scale fine structural alumina matrix ceramic guideway materials improved by diopside and Fe2O3. Ceramics International, 2008, 34, 263-268.	4.8	6
41	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
42	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
43	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
44	Mental Fatigue Has Great Impact on the Fractal Dimension of Brain Functional Network. Neural Plasticity, 2020, 2020, 1-11.	2.2	5
45	Mechanical properties of Mo fiber-reinforced resin mineral composites. Journal of Reinforced Plastics and Composites, 2014, 33, 1813-1822.	3.1	4
46	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
47	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
48	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
49	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
50	Adaptive Fuzzy Control System for Electric Discharge Machining Aided Tool Ultrasonic Vibration. , 2010, , .		3
51	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
52	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
53	Study on Model of Material Remove Rate During Ultrasonic Vibration Assisted Electrical Discharge Machining in Gas Medium. , 2010, , .		2
54	Defects of diamond single crystal grown under high temperature and high pressure. Thin Solid Films, 2013, 546, 457-460.	1.8	2

#	Article	IF	Citations
55	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
56	Surface Integrity and Friction Performance of Brass H62 Textured by One-Dimensional Ultrasonic Vibration-Assisted Turning. Micromachines, 2021, 12, 1398.	2.9	2
57	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
58	A simple and efficient method for isomorphism identification of planar kinematic chains. Soft Computing, 2021, 25, 13263.	3.6	1
59	Mechanical Properties of Special-shaped Mo Fiber Reinforced Mineral-filled Polymer Composite. Fibers and Polymers, 2021, 22, 451-459.	2.1	1
60	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