

Liming Wang

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,292
citations

687363

13
h-index

414414

32
g-index

57
all docs

57
docs citations

57
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L.. <i>Nature Genetics</i> , 2018, 50, 1565-1573.	21.4	463
2	Electrospun nanofiber fabric: an efficient, breathable and wearable moist-electric generator. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7085-7093.	10.3	78
3	Highly stretchable, durable, and breathable thermoelectric fabrics for human body energy harvesting and sensing. , 2022, 4, 621-632.		74
4	Stretchable Thermoelectric-Based Self-Powered Dual-Parameter Sensors with Decoupled Temperature and Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60498-60507.	8.0	59
5	A new closed-form calculation of envelope surface for modeling face gears. <i>Mechanism and Machine Theory</i> , 2019, 137, 211-226.	4.5	51
6	High-Performance Solar Steam Generator Based on Polypyrrole-Coated Fabric via 3D Macro- and Microstructure Design. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40664-40672.	8.0	45
7	Stretchable Thermoelectrics: Strategies, Performances, and Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	40
8	CNC milling of face gears with a novel geometric analysis. <i>Mechanism and Machine Theory</i> , 2019, 139, 46-65.	4.5	38
9	An improved cutting power model of machine tools in milling process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2383-2400.	3.0	34
10	A novel approach to determination of wheel position and orientation for five-axis CNC flute grinding of end mills. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 2499-2514.	3.0	30
11	One-step fabrication of a stretchable and anti-oil-fouling nanofiber membrane for solar steam generation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3673-3680.	5.9	28
12	A New and Accurate Mathematical Model for Computer Numerically Controlled Programming of 4Y1 Wheels in 2 $\frac{1}{2}$ -Axis Flute Grinding of Cylindrical End-Mills. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2013, 135, .	2.2	26
13	Effects of process parameters on thickness thinning and mechanical properties of the formed parts in incremental sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 3071-3080.	3.0	25
14	A new CAD/CAM/CAE integration approach to predicting tool deflection of end mills. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 1677-1686.	3.0	24
15	Structural design of groove and micro-blade of the end mill in aluminum alloys machining based on bionics. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 3343-3356.	3.0	16
16	A life-cycle integrated model for product eco-design in the conceptual design phase. <i>Journal of Cleaner Production</i> , 2022, 363, 132516.	9.3	16
17	Phenomenological vibration models of planetary gearboxes for gear local fault diagnosis. <i>Mechanism and Machine Theory</i> , 2022, 170, 104698.	4.5	14
18	Synthesis and cytotoxicity of oleanolic acid trisaccharide saponins. <i>Carbohydrate Research</i> , 2017, 442, 9-16.	2.3	13

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19	A New Sustainable Scheduling Method for Hybrid Flow-Shop Subject to the Characteristics of Parallel Machines. <i>IEEE Access</i> , 2020, 8, 79998-80009.	4.2	13
20	Ceramic Nanofiber-Based Water-Induced Electric Generator. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56226-56232.	8.0	13
21	Data-Driven Integral Reinforcement Learning for Continuous-Time Non-Zero-Sum Games. <i>IEEE Access</i> , 2019, 7, 82901-82912.	4.2	12
22	Investigation of the Surface Integrity of Q345 Steel After Nd:YAG Laser Cleaning of Oxidized Mining Parts. <i>Coatings</i> , 2020, 10, 716.	2.6	12
23	Multi-layer integration framework for low carbon design based on design features. <i>Journal of Manufacturing Systems</i> , 2021, 61, 223-238.	13.9	12
24	A mathematical model of vibration signal for multistage wind turbine gearboxes with transmission path effect analysis. <i>Mechanism and Machine Theory</i> , 2022, 167, 104428.	4.5	12
25	A parametric and accurate CAD model of flat end mills based on its grinding operations. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1363-1370.	2.2	9
26	A Hybrid Genetic Algorithm for Minimizing Energy Consumption in Flow Shops Considering Ultra-low Idle State. <i>Procedia CIRP</i> , 2019, 80, 192-196.	1.9	9
27	An Accurate and Efficient Approach to Calculating the Wheel Location and Orientation for CNC Flute-Grinding. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4223.	2.5	9
28	A product carbon footprint model for embodiment design based on macro-micro design features. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 3839-3857.	3.0	9
29	Life cycle carbon emission assessments and comparisons of cast iron and resin mineral composite machine tool bed in China. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 1143-1152.	3.0	8
30	A new energy consumption model suitable for processing multiple materials in end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2521-2531.	3.0	7
31	Flexible, self-cleaning, and high-performance ceramic nanofiber-based moist-electric generator enabled by interfacial engineering. <i>Science China Technological Sciences</i> , 2022, 65, 450-457.	4.0	7
32	A novel approach to wheel path generation for 4-axis CNC flank grinding of conical end-mills. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 565-578.	3.0	6
33	Conceptual design scheme automatic generation and decision-making considering green demand. <i>Procedia Manufacturing</i> , 2020, 43, 407-414.	1.9	6
34	A novel de-rusting method with molten salt precleaning and laser cleaning for the recycling of steel parts. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 1403-1414.	4.1	6
35	The Surface Properties of an Aviation Aluminum Alloy after Laser Cleaning. <i>Coatings</i> , 2022, 12, 273.	2.6	6
36	A new empirical standby power and auxiliary power model of CNC machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 3995-4010.	3.0	6

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37	Controllable diameter of electrospun nanofibers based on the velocity of whipping jets for high-efficiency air filtration. <i>Science China Technological Sciences</i> , 2022, 65, 481-489.	4.0	6
38	Fiber-microsphere Binary Structured Composite Fibrous Membranes for Waterproof and Breathable Applications. <i>Fibers and Polymers</i> , 2022, 23, 1500-1509.	2.1	5
39	Energy consumption model of plasma spraying based on unit process life cycle inventory. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15324-15334.	5.8	4
40	Determination of the feasible setup parameters of a workpiece to maximize the utilization of a five-axis milling machine. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 298-314.	4.3	4
41	Evaluation and improvement of the greenness of plasma spraying through life cycle assessment and grey relational analysis. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 1586-1606.	4.7	4
42	Carbon deposition mechanism of molten salt cleaning and optimization of multicomponent molten salt formula for remanufacturing. <i>Science Progress</i> , 2021, 104, 003685042110310.	1.9	3
43	A novel mathematical model of transmission path effect for the research of vibration characteristics of planetary gearboxes. <i>Mechanism and Machine Theory</i> , 2022, 176, 105022.	4.5	3
44	A life cycle impact assessment method based on the multi-environmental spatial dimension. <i>International Journal of Computer Integrated Manufacturing</i> , 2014, 27, 301-312.	4.6	2
45	An efficient approach to calculating the moment of inertia of solid end-mill flutes. , 2014, , .		2
46	Mass production of polyacrylonitrile sub-micron fibrous webs with different aligned degrees via free surface electrospinning for air purification. <i>Textile Reseach Journal</i> , 2022, 92, 2731-2741.	2.2	2
47	The migration behavior of electrospun nanofibers within cotton slivers in roller drafting and their effects on composite yarn quality. <i>Textile Reseach Journal</i> , 2021, 91, 1555-1564.	2.2	2
48	Prediction of thrust force and torque in canal preparation process using Taguchi method and Artificial Neural Network. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110524.	1.6	2
49	Improvement and analysis of mechanistic modeling of root canal preparation by a computer-based method. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 216, 106636.	4.7	2
50	Facile fabrication of polydopamine nanosphere-decorated fabric for solar steam generation. <i>Textile Reseach Journal</i> , 2022, 92, 3451-3461.	2.2	2
51	A study on modeling and grinding for twist drill flank. , 2014, , .		1
52	A Novel Vibration Model for Explanation of the Frequency Features in Multistage Wind Turbine Gearboxes Considering the Effects of Inter-stage Meshing Frequency Modulation. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 0, , 1.	4.9	1
53	A novel methodology of layout design by applying euler path. , 2010, , .		0
54	Root canals shaped by nickel-titanium instrumentation with automated computerized numerical control systems. <i>BMC Oral Health</i> , 2021, 21, 482.	2.3	0

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55	Jet diameter of the first coil in the electrospinning whipping region: the role of fluid viscosity. Textile Reseach Journal, 0, , 004051752210806.	2.2	0