

Jinghua Xu

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

314
citations

1040056

9
h-index

996975

15
g-index

40
all docs

40
docs citations

40
times ranked

187
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy efficiency optimization for ecological 3D printing based on adaptive multi-layer customization. <i>Journal of Cleaner Production</i> , 2020, 245, 118826.	9.3	37
2	Thermal design of large plate-fin heat exchanger for cryogenic air separation unit based on multiple dynamic equilibriums. <i>Applied Thermal Engineering</i> , 2017, 113, 774-790.	6.0	28
3	A Research Review on the Key Technologies of Intelligent Design for Customized Products. <i>Engineering</i> , 2017, 3, 631-640.	6.7	27
4	Transmission system accuracy optimum allocation for multi-axis machine tools™ scheme design. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 2762-2779.	2.1	19
5	Additive manufacturing energy consumption measurement and prediction in fabricating lattice structure based on recallable multimodal fusion network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 196, 111215.	5.0	15
6	Biomechanical performance design of joint prosthesis for medical rehabilitation via generative structure optimization. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1163-1179.	1.6	13
7	Precision forward design for 3D printing using kinematic sensitivity via Jacobian matrix considering uncertainty. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 3257-3271.	3.0	11
8	Support Diminution Design for Layered Manufacturing of Manifold Surface Based on Variable Orientation Tracking. <i>3D Printing and Additive Manufacturing</i> , 2021, 8, 149-167.	2.9	11
9	Surface accuracy optimization of mechanical parts with multiple circular holes for additive manufacturing based on triangular fuzzy number. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 133-150.	4.3	11
10	Energy efficiency design for eco-friendly additive manufacturing based on multimodal attention fusion. <i>Journal of Manufacturing Processes</i> , 2022, 79, 720-730.	5.9	11
11	Cylindricity and flatness optimization for mechanical parts in additive manufacturing based on tolerance adaptive slicing. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 3839-3857.	3.0	10
12	Antivibration and energy efficiency design for large stroke additive manufacturing based on dynamic trajectory adaption. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 3015-3034.	3.0	10
13	Non-redundant tool trajectory generation for surface finish machining based on geodesic curvature matching. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 62, 1169-1178.	3.0	9
14	Evolution of Residual Stress Based on Curvature Coupling in Multi-Roll Levelling. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4975.	2.5	9
15	Electrothermal response optimization of nozzle structure for multi-material rapid prototyping based on fuzzy adaptive control. <i>Rapid Prototyping Journal</i> , 2022, 28, 1168-1181.	3.2	9
16	Performance design of a cryogenic air separation unit for variable working conditions using the lumped parameter model. <i>Frontiers of Mechanical Engineering</i> , 2020, 15, 24-42.	4.3	7
17	Metamorphic manipulating mechanism design for MCCB using index reduced iteration. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2013, 26, 232-241.	3.7	6
18	Multi-actuated mechanism design considering structure flexibility using correlated performance reinforcing. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 864-873.	2.4	6

#	ARTICLE	IF	CITATIONS
19	Kinematic Chain Optimization Design Based on Deformation Sensitivity Analysis of a Five-Axis Machine Tool. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020, 21, 2375-2389.	2.2	6
20	Assembly-free design for additive manufacturing of articulated components based on layered precision assignment. <i>International Journal of Computer Integrated Manufacturing</i> , 2022, 35, 909-926.	4.6	6
21	Towards support-free design for 3D printing of thin-walled composite based on stratified manufacturability reinforcement. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022, 38, 457-472.	4.5	6
22	Collisionless tool orientation smoothing above blade stream surface using NURBS envelope. <i>Journal of Zhejiang University: Science A</i> , 2013, 14, 187-197.	2.4	5
23	Decompose image into meaningful regions based on contour detector and watershed algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 32, 4259-4271.	1.4	5
24	A Slight Smoke Perceptual Network. <i>IEEE Access</i> , 2019, 7, 42889-42896.	4.2	5
25	Interruption performance design of variable freedom mechanism triggered by electro-mechanical-magnetic coupling. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3330-3341.	2.1	4
26	Non-rigid registration of biomedical image for radiotherapy based on adaptive feature density flow. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102691.	5.7	4
27	Build Orientation Optimization Based on Weighted Analysis of Local Surface Region Curvature. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 304.	2.5	4
28	3D Shape and Structure Retrieval Method of Mechanical Parts Based on Recursive Segmentation. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2009, 45, 176.	0.5	4
29	Matching images based on consistency graph and region adjacency graphs. <i>Signal, Image and Video Processing</i> , 2017, 11, 501-508.	2.7	3
30	Thermal Deformation Defect Prediction for Layered Printing Using Convolutional Generative Adversarial Network. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6860.	2.5	3
31	Scratch detection technology for product surface based on improved contourlet transform. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 242, 012082.	0.6	2
32	Biomechanical Strengthening Design for Limb Articulation Based on Reconstructed Skeleton Kinesthetics. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 715.	1.8	2
33	Design Method of Non-standard Structure for MEMS Based on Multi-granularity Macro-modeling. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2011, 47, 97.	0.5	2
34	Energy-Efficient Enhancement for Viscoelastic Injection Rheomolding Using Hierarchy Orthogonal Optimization. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-20.	1.1	1
35	Electrical Performance Design for Circuit Breakers Based on Multi-domain Sequential Coupling. <i>Journal of the Institution of Engineers (India): Series B</i> , 2020, 101, 139-152.	1.9	1
36	Modular Configuration Design Method for Numerical Control Machine Tools Based on Multi-domain Mutual-use. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2011, 47, 127.	0.5	1

#	ARTICLE	IF	CITATIONS
37	A Slicing Optimization Method of Manifold Model for 3D Printing Based on Dual Inclinations Probability. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2019, 55, 129.	0.5	1
38	Segmented Design of Performance Enhancement for Large Plate Fin Heat Exchanger of Cryogenic Air Separation Unit. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 129.	0.5	0
39	A Method of Constructing Layered Multi-connected Domains for Manifold Mesh Model Based on Adjacency Topology. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2018, 30, 180.	0.2	0
40	A method of determining containment relation and orientation for complex contours. , 2021, , .		0