

# 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	Antivibration and energy efficiency design for large stroke additive manufacturing based on dynamic trajectory adaption. International Journal of Advanced Manufacturing Technology, 2022, 118, 3015-3034.	3.0	10
2	Electrothermal response optimization of nozzle structure for multi-material rapid prototyping based on fuzzy adaptive control. Rapid Prototyping Journal, 2022, 28, 1168-1181.	3.2	9
3	Assembly-free design for additive manufacturing of articulated components based on layered precision assignment. International Journal of Computer Integrated Manufacturing, 2022, 35, 909-926.	4.6	6
4	Additive manufacturing energy consumption measurement and prediction in fabricating lattice structure based on recallable multimodal fusion network. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111215.	5.0	15
5	Energy efficiency design for eco-friendly additive manufacturing based on multimodal attention fusion. Journal of Manufacturing Processes, 2022, 79, 720-730.	5.9	11
6	Towards support-free design for 3D printing of thin-walled composite based on stratified manufacturability reinforcement. CIRP Journal of Manufacturing Science and Technology, 2022, 38, 457-472.	4.5	6
7	Cylindricity and flatness optimization for mechanical parts in additive manufacturing based on tolerance adaptive slicing. International Journal of Advanced Manufacturing Technology, 2021, 115, 3839-3857.	3.0	10
8	Support Diminution Design for Layered Manufacturing of Manifold Surface Based on Variable Orientation Tracking. 3D Printing and Additive Manufacturing, 2021, 8, 149-167.	2.9	11
9	Non-rigid registration of biomedical image for radiotherapy based on adaptive feature density flow. Biomedical Signal Processing and Control, 2021, 68, 102691.	5.7	4
10	Biomechanical Strengthening Design for Limb Articulation Based on Reconstructed Skeleton Kinesthetics. Journal of Medical and Biological Engineering, 2021, 41, 715.	1.8	2
11	Surface accuracy optimization of mechanical parts with multiple circular holes for additive manufacturing based on triangular fuzzy number. Frontiers of Mechanical Engineering, 2021, 16, 133-150.	4.3	11
12	Build Orientation Optimization Based on Weighted Analysis of Local Surface Region Curvature. Applied Sciences (Switzerland), 2021, 11, 304.	2.5	4
13	A method of determining containment relation and orientation for complex contours. , 2021, , .		0
14	Energy efficiency optimization for ecological 3D printing based on adaptive multi-layer customization. Journal of Cleaner Production, 2020, 245, 118826.	9.3	37
15	Performance design of a cryogenic air separation unit for variable working conditions using the lumped parameter model. Frontiers of Mechanical Engineering, 2020, 15, 24-42.	4.3	7
16	Kinematic Chain Optimization Design Based on Deformation Sensitivity Analysis of a Five-Axis Machine Tool. International Journal of Precision Engineering and Manufacturing, 2020, 21, 2375-2389.	2.2	6
17	Biomechanical performance design of joint prosthesis for medical rehabilitation via generative structure optimization. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 1163-1179.	1.6	13
18	Precision forward design for 3D printing using kinematic sensitivity via Jacobian matrix considering uncertainty. International Journal of Advanced Manufacturing Technology, 2020, 110, 3257-3271.	3.0	11

#	ARTICLE	IF	CITATIONS
19	Thermal Deformation Defect Prediction for Layered Printing Using Convolutional Generative Adversarial Network. Applied Sciences (Switzerland), 2020, 10, 6860.	2.5	3
20	Electrical Performance Design for Circuit Breakers Based on Multi-domain Sequential Coupling. Journal of the Institution of Engineers (India): Series B, 2020, 101, 139-152.	1.9	1
21	A Slight Smoke Perceptual Network. IEEE Access, 2019, 7, 42889-42896.	4.2	5
22	Evolution of Residual Stress Based on Curvature Coupling in Multi-Roll Levelling. Applied Sciences (Switzerland), 2019, 9, 4975.	2.5	9
23	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
24	Energy-Efficient Enhancement for Viscoelastic Injection Rheomolding Using Hierarchy Orthogonal Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-20.	1.1	1
25	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
26	Interruption performance design of variable freedom mechanism triggered by electro-mechanical-magnetic coupling. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3330-3341.	2.1	4
27	Decompose image into meaningful regions based on contour detector and watershed algorithm. Journal of Intelligent and Fuzzy Systems, 2017, 32, 4259-4271.	1.4	5
28	A Research Review on the Key Technologies of Intelligent Design for Customized Products. Engineering, 2017, 3, 631-640.	6.7	27
29	Thermal design of large plate-fin heat exchanger for cryogenic air separation unit based on multiple dynamic equilibriums. Applied Thermal Engineering, 2017, 113, 774-790.	6.0	28
30	Matching images based on consistency graph and region adjacency graphs. Signal, Image and Video Processing, 2017, 11, 501-508.	2.7	3
31	Scratch detection technology for product surface based on improved contourlet transform. IOP Conference Series: Materials Science and Engineering, 2017, 242, 012082.	0.6	2
32	Multi-actuated mechanism design considering structure flexibility using correlated performance reinforcing. Journal of Zhejiang University: Science A, 2015, 16, 864-873.	2.4	6
33	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
34	Collisionless tool orientation smoothing above blade stream surface using NURBS envelope. Journal of Zhejiang University: Science A, 2013, 14, 187-197.	2.4	5
35	Metamorphic manipulating mechanism design for MCCB using index reduced iteration. Chinese Journal of Mechanical Engineering (English Edition), 2013, 26, 232-241.	3.7	6
36	Transmission system accuracy optimum allocation for multiaxis machine tools scheme design. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 2762-2779.	2.1	19

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37	Non-redundant tool trajectory generation for surface finish machining based on geodesic curvature matching. International Journal of Advanced Manufacturing Technology, 2012, 62, 1169-1178.	3.0	9
38	Design Method of Non-standard Structure for MEMS Based on Multi-granularity Macro-modeling. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 97.	0.5	2
39	Modular Configuration Design Method for Numerical Control Machine Tools Based on Multi-domain Mutual-use. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 127.	0.5	1
40	3D Shape and Structure Retrieval Method of Mechanical Parts Based on Recursive Segmentation. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2009, 45, 176.	0.5	4