

# Jun Zou

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,491  
citations

257101

24  
h-index

344852

36  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Texture surface defect detection of plastic relays with an enhanced feature pyramid network. Journal of Intelligent Manufacturing, 2023, 34, 1409-1425.	4.4	5
2	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. Advanced Intelligent Systems, 2022, 4, 2100140.	3.3	44
3	A biomimetic robot crawling bidirectionally with load inspired by rock-climbing fish. Journal of Zhejiang University: Science A, 2022, 23, 14-26.	1.3	7
4	Deep spontaneous penetration of a water droplet into hot granular materials. Physical Review Fluids, 2022, 7, .	1.0	2
5	Deep multimodal learning for municipal solid waste sorting. Science China Technological Sciences, 2022, 65, 324-335.	2.0	8
6	Model-Based Contact Detection and Accommodation for Soft Bending Actuators: An Integrated Direct/Indirect Adaptive Robust Approach. IEEE Robotics and Automation Letters, 2022, 7, 7263-7270.	3.3	0
7	Arbitrary extension of the antibubble lifetime. Physical Review Fluids, 2022, 7, .	1.0	1
8	Fluid-driven artificial muscles: bio-design, manufacturing, sensing, control, and applications. Bio-Design and Manufacturing, 2021, 4, 123-145.	3.9	40
9	A dynamical overview of droplets in the transmission of respiratory infectious diseases. Physics of Fluids, 2021, 33, 031301.	1.6	34
10	Customizing a self-healing soft pump for robot. Nature Communications, 2021, 12, 2247.	5.8	54
11	Antibubble formation by a single drop impact on a free surface. Physics of Fluids, 2021, 33, .	1.6	8
12	Re-foldable origami-inspired bidirectional twisting of artificial muscles reproduces biological motion. Cell Reports Physical Science, 2021, 2, 100407.	2.8	17
13	Statics and dynamics of a viscous ligament drawn out of a pure-liquid bath. Journal of Fluid Mechanics, 2021, 922, .	1.4	6
14	Self-contained soft electrofluidic actuators. Science Advances, 2021, 7, .	4.7	23
15	Adaptive robust control of soft bending actuators: an empirical nonlinear model-based approach. Journal of Zhejiang University: Science A, 2021, 22, 681-694.	1.3	7
16	A Bioinspired Stress-Response Strategy for High-Speed Soft Grippers. Advanced Science, 2021, 8, e2102539.	5.6	32
17	A multifunctional electronic skin based on patterned metal films for tactile sensing with a broad linear response range. Science Advances, 2021, 7, eabl8313.	4.7	55
18	Digital image correlation for sensing kinematic fields in manufacturing processes: a review. Journal of Intelligent Manufacturing and Special Equipment, 2021, 2, 37-62.	0.6	0

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19	A CNN-Based Visual Sorting System With Cloud-Edge Computing for Flexible Manufacturing Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 4726-4735.	7.2	36
20	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. IScience, 2020, 23, 101682.	1.9	70
21	Fiber-Reinforced Soft Bending Actuator Control Utilizing On/Off Valves. IEEE Robotics and Automation Letters, 2020, 5, 6732-6739.	3.3	26
22	One-dimensional convolutional neural networks for acoustic waste sorting. Journal of Cleaner Production, 2020, 271, 122393.	4.6	23
23	Soft Controllable Carbon Fibre-based Piezoresistive Self-Sensing Actuators. Actuators, 2020, 9, 79.	1.2	14
24	Controllable Stiffness Origami "Skeletons" for Lightweight and Multifunctional Artificial Muscles. Advanced Functional Materials, 2020, 30, 2000349.	7.8	38
25	A CNN-Based Adaptive Surface Monitoring System for Fused Deposition Modeling. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2287-2296.	3.7	51
26	Modular Soft Robotics: Modular Units, Connection Mechanisms, and Applications. Advanced Intelligent Systems, 2020, 2, 1900166.	3.3	47
27	A smart surface inspection system using faster R-CNN in cloud-edge computing environment. Advanced Engineering Informatics, 2020, 43, 101037.	4.0	84
28	Smart additive manufacturing: Current artificial intelligence-enabled methods and future perspectives. Science China Technological Sciences, 2020, 63, 1600-1611.	2.0	45
29	Splashing during impact on heated granular beds. Physical Review Fluids, 2020, 5, .	1.0	0
30	Water drops bouncing off vertically vibrating textured surfaces. Journal of Fluid Mechanics, 2019, 876, 1041-1051.	1.4	11
31	A Vacuum-Powered Soft Linear Actuator Strengthened by Granular Jamming. Lecture Notes in Computer Science, 2019, , 531-543.	1.0	1
32	Advanced Artificial Muscle for Flexible Material-Based Reconfigurable Soft Robots. Advanced Science, 2019, 6, 1901371.	5.6	71
33	An adhesive locomotion model for the rock-climbing fish, <i>Beaufortia kweichowensis</i> . Scientific Reports, 2019, 9, 16571.	1.6	13
34	Delayed bubble entrapment during the drop impact on a bounded liquid bath. AIP Advances, 2019, 9, .	0.6	4
35	Experimental study of drop impact on a thin fiber. Physics of Fluids, 2019, 31, 107102.	1.6	12
36	Formation of water in oil in water particles by drop impact on an oil layer. Physics of Fluids, 2019, 31, .	1.6	16

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37	Vacuum-Powered Soft Pneumatic Twisting Actuators to Empower New Capabilities for Soft Robots. <i>Advanced Materials Technologies</i> , 2019, 4, 1800429.	3.0	72
38	Production planning for cloud-based additive manufacturing—A computer vision-based approach. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 58, 145-157.	6.1	43
39	10.1063/1.5089001.4. , 2019, , .		0
40	10.1063/1.5116845.10. , 2019, , .		0
41	Wear performance of metal parts fabricated by selective laser melting: a literature review. <i>Journal of Zhejiang University: Science A</i> , 2018, 19, 95-110.	1.3	46
42	A Reconfigurable Omnidirectional Soft Robot Based on Caterpillar Locomotion. <i>Soft Robotics</i> , 2018, 5, 164-174.	4.6	94
43	Instability of a poppet valve: interaction of axial vibration and lateral vibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 3065-3074.	1.5	5
44	The comparison genomics analysis with glioblastoma multiforme (GBM) cells under 3D and 2D cell culture conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 665-673.	2.5	27
45	Experimental investigation of vortex-ring cavitation. <i>Journal of Zhejiang University: Science A</i> , 2017, 18, 545-552.	1.3	2
46	Secondary cavitation in a rigid tube. <i>Physics of Fluids</i> , 2017, 29, .	1.6	12
47	Liquid jet leaping from a free surface. <i>Physics of Fluids</i> , 2017, 29, 071702.	1.6	4
48	Droplets passing through a soap film. <i>Physics of Fluids</i> , 2017, 29, .	1.6	16
49	Bouncing antibubbles. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	4
50	The Adhesive System and Anisotropic Shear Force of Guizhou Gastromyzontidae. <i>Scientific Reports</i> , 2016, 6, 37221.	1.6	23
51	Interactions between two oscillating bubbles in a rigid tube. <i>Experimental Thermal and Fluid Science</i> , 2015, 61, 105-112.	1.5	13
52	Particle removal by a single cavitation bubble. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 668-673.	2.0	13
53	Experimental study of cavitation phenomenon in a centrifugal blood pump induced by the failure of inlet cannula. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 165-170.	1.9	13
54	Phenomena of a drop impact on a restricted liquid surface. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 332-341.	1.5	29

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55	Collapse of an antibubble. <i>Physical Review E</i> , 2013, 87, 061002.	0.8	30
56	A Fast Building and Effective Hydraulic Pediatric Mock Circulatory System for the Evaluation of a Left Ventricular Assist Device. <i>ASAIO Journal</i> , 2013, 59, 575-585.	0.9	14
57	Large bubble entrapment during drop impacts on a restricted liquid surface. <i>Physics of Fluids</i> , 2012, 24, .	1.6	38
58	Experimental study of a drop bouncing on a liquid surface. <i>Physics of Fluids</i> , 2011, 23, .	1.6	75
59	Study on hydrodynamic vibration in fluidic flowmeter. <i>Journal of Zhejiang University: Science A</i> , 2007, 8, 1422-1428.	1.3	10