

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	A Reconfigurable Omnidirectional Soft Robot Based on Caterpillar Locomotion. <i>Soft Robotics</i> , 2018, 5, 164-174.	4.6	94
2	A smart surface inspection system using faster R-CNN in cloud-edge computing environment. <i>Advanced Engineering Informatics</i> , 2020, 43, 101037.	4.0	84
3	Experimental study of a drop bouncing on a liquid surface. <i>Physics of Fluids</i> , 2011, 23, .	1.6	75
4	Vacuum-Powered Soft Pneumatic Twisting Actuators to Empower New Capabilities for Soft Robots. <i>Advanced Materials Technologies</i> , 2019, 4, 1800429.	3.0	72
5	Advanced Artificial Muscle for Flexible Material-Based Reconfigurable Soft Robots. <i>Advanced Science</i> , 2019, 6, 1901371.	5.6	71
6	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. <i>IScience</i> , 2020, 23, 101682.	1.9	70
7	A multifunctional electronic skin based on patterned metal films for tactile sensing with a broad linear response range. <i>Science Advances</i> , 2021, 7, eabl8313.	4.7	55
8	Customizing a self-healing soft pump for robot. <i>Nature Communications</i> , 2021, 12, 2247.	5.8	54
9	A CNN-Based Adaptive Surface Monitoring System for Fused Deposition Modeling. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2287-2296.	3.7	51
10	Modular Soft Robotics: Modular Units, Connection Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900166.	3.3	47
11	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
12	Smart additive manufacturing: Current artificial intelligence-enabled methods and future perspectives. <i>Science China Technological Sciences</i> , 2020, 63, 1600-1611.	2.0	45
13	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100140.	3.3	44
14	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
15	Fluid-driven artificial muscles: bio-design, manufacturing, sensing, control, and applications. <i>Bio-Design and Manufacturing</i> , 2021, 4, 123-145.	3.9	40
16	Large bubble entrapment during drop impacts on a restricted liquid surface. <i>Physics of Fluids</i> , 2012, 24, .	1.6	38
17	Controllable Stiffness Origami “Skeletons” for Lightweight and Multifunctional Artificial Muscles. <i>Advanced Functional Materials</i> , 2020, 30, 2000349.	7.8	38
18	A CNN-Based Visual Sorting System With Cloud-Edge Computing for Flexible Manufacturing Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 4726-4735.	7.2	36

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19	A dynamical overview of droplets in the transmission of respiratory infectious diseases. <i>Physics of Fluids</i> , 2021, 33, 031301.	1.6	34
20	A Bioinspired Stress-Response Strategy for High-Speed Soft Grippers. <i>Advanced Science</i> , 2021, 8, e2102539.	5.6	32
21	Collapse of an antibubble. <i>Physical Review E</i> , 2013, 87, 061002.	0.8	30
22	Phenomena of a drop impact on a restricted liquid surface. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 332-341.	1.5	29
23	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
24	Fiber-Reinforced Soft Bending Actuator Control Utilizing On/Off Valves. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 6732-6739.	3.3	26
25	The Adhesive System and Anisotropic Shear Force of Guizhou Gastromyzontidae. <i>Scientific Reports</i> , 2016, 6, 37221.	1.6	23
26	One-dimensional convolutional neural networks for acoustic waste sorting. <i>Journal of Cleaner Production</i> , 2020, 271, 122393.	4.6	23
27	Self-contained soft electrofluidic actuators. <i>Science Advances</i> , 2021, 7, .	4.7	23
28	Re-foldable origami-inspired bidirectional twisting of artificial muscles reproduces biological motion. <i>Cell Reports Physical Science</i> , 2021, 2, 100407.	2.8	17
29	Droplets passing through a soap film. <i>Physics of Fluids</i> , 2017, 29, .	1.6	16
30	Formation of water in oil in water particles by drop impact on an oil layer. <i>Physics of Fluids</i> , 2019, 31, .	1.6	16
31	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
32	Soft Controllable Carbon Fibre-based Piezoresistive Self-Sensing Actuators. <i>Actuators</i> , 2020, 9, 79.	1.2	14
33	Particle removal by a single cavitation bubble. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 668-673.	2.0	13
34	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
35	Interactions between two oscillating bubbles in a rigid tube. <i>Experimental Thermal and Fluid Science</i> , 2015, 61, 105-112.	1.5	13
36	An adhesive locomotion model for the rock-climbing fish, <i>Beaufortia kweichowensis</i> . <i>Scientific Reports</i> , 2019, 9, 16571.	1.6	13

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37	Secondary cavitation in a rigid tube. <i>Physics of Fluids</i> , 2017, 29, .	1.6	12
38	Experimental study of drop impact on a thin fiber. <i>Physics of Fluids</i> , 2019, 31, 107102.	1.6	12
39	Water drops bouncing off vertically vibrating textured surfaces. <i>Journal of Fluid Mechanics</i> , 2019, 876, 1041-1051.	1.4	11
40	Study on hydrodynamic vibration in fluidic flowmeter. <i>Journal of Zhejiang University: Science A</i> , 2007, 8, 1422-1428.	1.3	10
41	Antibubble formation by a single drop impact on a free surface. <i>Physics of Fluids</i> , 2021, 33, .	1.6	8
42	Deep multimodal learning for municipal solid waste sorting. <i>Science China Technological Sciences</i> , 2022, 65, 324-335.	2.0	8
43	Adaptive robust control of soft bending actuators: an empirical nonlinear model-based approach. <i>Journal of Zhejiang University: Science A</i> , 2021, 22, 681-694.	1.3	7
44	A biomimetic robot crawling bidirectionally with load inspired by rock-climbing fish. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 14-26.	1.3	7
45	Statics and dynamics of a viscous ligament drawn out of a pure-liquid bath. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	1.4	6
46	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
47	Texture surface defect detection of plastic relays with an enhanced feature pyramid network. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 1409-1425.	4.4	5
48	Bouncing antibubbles. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	4
49	Liquid jet leaping from a free surface. <i>Physics of Fluids</i> , 2017, 29, 071702.	1.6	4
50	Delayed bubble entrapment during the drop impact on a bounded liquid bath. <i>AIP Advances</i> , 2019, 9, .	0.6	4
51	Experimental investigation of vortex-ring cavitation. <i>Journal of Zhejiang University: Science A</i> , 2017, 18, 545-552.	1.3	2
52	Deep spontaneous penetration of a water droplet into hot granular materials. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	2
53	A Vacuum-Powered Soft Linear Actuator Strengthened by Granular Jamming. <i>Lecture Notes in Computer Science</i> , 2019, , 531-543.	1.0	1
54	Arbitrary extension of the antibubble lifetime. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	1

#	ARTICLE	IF	CITATIONS
55	10.1063/1.5089001.4., 2019, , .		0
56	10.1063/1.5116845.10., 2019, , .		0
57	Splashing during impact on heated granular beds. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	0
58	Digital image correlation for sensing kinematic fields in manufacturing processes: a review. <i>Journal of Intelligent Manufacturing and Special Equipment</i> , 2021, 2, 37-62.	0.6	0
59	Model-Based Contact Detection and Accommodation for Soft Bending Actuators: An Integrated Direct/Indirect Adaptive Robust Approach. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7263-7270.	3.3	0