

Ruike Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

4,512
citations

279487

23
h-index

377514

34
g-index

37
all docs

37
docs citations

37
times ranked

4312
citing authors

#	ARTICLE	IF	CITATIONS
1	Printing ferromagnetic domains for untethered fast-transforming soft materials. <i>Nature</i> , 2018, 558, 274-279.	13.7	1,426
2	Soft wall-climbing robots. <i>Science Robotics</i> , 2018, 3, .	9.9	419
3	Magnetic Shape Memory Polymers with Integrated Multifunctional Shape Manipulation. <i>Advanced Materials</i> , 2020, 32, e1906657.	11.1	367
4	Mechanics of hard-magnetic soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 244-263.	2.3	307
5	Controlled crack propagation for atomic precision handling of wafer-scale two-dimensional materials. <i>Science</i> , 2018, 362, 665-670.	6.0	208
6	Untethered control of functional origami microrobots with distributed actuation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24096-24101.	3.3	166
7	Multifunctional magnetic soft composites: a review. <i>Multifunctional Materials</i> , 2020, 3, 042003.	2.4	159
8	Stretchable origami robotic arm with omnidirectional bending and twisting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	151
9	Symmetry-Breaking Actuation Mechanism for Soft Robotics and Active Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41649-41658.	4.0	130
10	Adaptive and multifunctional hydrogel hybrid probes for long-term sensing and modulation of neural activity. <i>Nature Communications</i> , 2021, 12, 3435.	5.8	130
11	Soft robotic origami crawler. <i>Science Advances</i> , 2022, 8, eabm7834.	4.7	125
12	Magneto-Mechanical Metamaterials with Widely Tunable Mechanical Properties and Acoustic Bandgaps. <i>Advanced Functional Materials</i> , 2021, 31, 2005319.	7.8	115
13	Magnetic Multimaterial Printing for Multimodal Shape Transformation with Tunable Properties and Shiftable Mechanical Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12639-12648.	4.0	101
14	Evolutionary Algorithm-Guided Voxel-Encoding Printing of Functional Hard-Magnetic Soft Active Materials. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000060.	3.3	93
15	Magnetic Dynamic Polymers for Modular Assembling and Reconfigurable Morphing Architectures. <i>Advanced Materials</i> , 2021, 33, e2102113.	11.1	88
16	Kirigami enhances film adhesion. <i>Soft Matter</i> , 2018, 14, 2515-2525.	1.2	74
17	Spinning-enabled wireless amphibious origami millirobot. <i>Nature Communications</i> , 2022, 13, .	5.8	68
18	Folding artificial mucosa with cell-laden hydrogels guided by mechanics models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7503-7508.	3.3	60

#	ARTICLE	IF	CITATIONS
19	<i>Ruga</i> mechanics of creasing: from instantaneous to setback creases. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120753.	1.0	52
20	Machine Learning–Evolutionary Algorithm Enabled Design for 4D–Printed Active Composite Structures. Advanced Functional Materials, 2022, 32, 2109805.	7.8	47
21	Micromechanics Study on Actuation Efficiency of Hard-Magnetic Soft Active Materials. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	40
22	Multimodal Surface Instabilities in Curved Film–Substrate Structures. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	39
23	Deep Learning-Accelerated Designs of Tunable Magneto-Mechanical Metamaterials. ACS Applied Materials & Interfaces, 2022, 14, 33892-33902.	4.0	33
24	Multi-Color 3D Printing via Single-Wavelength Grayscale Digital Light Processing. Advanced Functional Materials, 2022, 32, .	7.8	22
25	Ring Origami: Snap-Folding of Rings with Different Geometries. Advanced Intelligent Systems, 2021, 3, 2100107.	3.3	14
26	Magnetically Actuated Reconfigurable Metamaterials as Conformal Electromagnetic Filters. Advanced Intelligent Systems, 2022, 4, .	3.3	14
27	Self-adaptive flexible valve as passive flow regulator. Extreme Mechanics Letters, 2020, 39, 100824.	2.0	12
28	Hexagonal ring origami–Snap-folding with large packing ratio. Extreme Mechanics Letters, 2022, 53, 101713.	2.0	10
29	Phase diagram and mechanics of snap-folding of ring origami by twisting. International Journal of Solids and Structures, 2022, 248, 111685.	1.3	10
30	Magnetoactuated Reconfigurable Antennas on Hard-Magnetic Soft Substrates and E-Threads. IEEE Transactions on Antennas and Propagation, 2020, 68, 5882-5892.	3.1	7
31	Hexagonal Ring Origami Assemblies: Foldable Functional Structures With Extreme Packing. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	6
32	Deciphering and engineering tissue folding: A mechanical perspective. Acta Biomaterialia, 2021, 134, 32-42.	4.1	5
33	Preface: Forum on Novel Stimuli-Responsive Materials for 3D Printing. ACS Applied Materials & Interfaces, 2021, 13, 12637-12638.	4.0	1
34	Reprogrammable Materials: Magnetic Dynamic Polymers for Modular Assembling and Reconfigurable Morphing Architectures (Adv. Mater. 30/2021). Advanced Materials, 2021, 33, 2170236.	11.1	0