

# Ruike Zhao

## List of Publications by Year in descending order

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34  
papers

4,512  
citations

279487

23  
h-index

377514

34  
g-index

37  
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37  
docs citations

37  
times ranked

4312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learningâ€Evolutionary Algorithm Enabled Design for 4Dâ€Printed Active Composite Structures. <i>Advanced Functional Materials</i> , 2022, 32, 2109805.	7.8	47
2	Hexagonal ring origamiâ€Snap-folding with large packing ratio. <i>Extreme Mechanics Letters</i> , 2022, 53, 101713.	2.0	10
3	Soft robotic origami crawler. <i>Science Advances</i> , 2022, 8, eabm7834.	4.7	125
4	Multiâ€Color 3D Printing via Singleâ€Vat Grayscale Digital Light Processing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
5	Phase diagram and mechanics of snap-folding of ring origami by twisting. <i>International Journal of Solids and Structures</i> , 2022, 248, 111685.	1.3	10
6	Hexagonal Ring Origami Assemblies: Foldable Functional Structures With Extreme Packing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	1.1	6
7	Spinning-enabled wireless amphibious origami millirobot. <i>Nature Communications</i> , 2022, 13, .	5.8	68
8	Deep Learning-Accelerated Designs of Tunable Magneto-Mechanical Metamaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 33892-33902.	4.0	33
9	Magnetically Actuated Reconfigurable Metamaterials as Conformal Electromagnetic Filters. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	14
10	Magnetoâ€Mechanical Metamaterials with Widely Tunable Mechanical Properties and Acoustic Bandgaps. <i>Advanced Functional Materials</i> , 2021, 31, 2005319.	7.8	115
11	Magnetic Multimaterial Printing for Multimodal Shape Transformation with Tunable Properties and Shiftable Mechanical Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12639-12648.	4.0	101
12	Preface: Forum on Novel Stimuli-Responsive Materials for 3D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12637-12638.	4.0	1
13	Magnetic Dynamic Polymers for Modular Assembling and Reconfigurable Morphing Architectures. <i>Advanced Materials</i> , 2021, 33, e2102113.	11.1	88
14	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
15	Deciphering and engineering tissue folding: A mechanical perspective. <i>Acta Biomaterialia</i> , 2021, 134, 32-42.	4.1	5
16	Reprogrammable Materials: Magnetic Dynamic Polymers for Modular Assembling and Reconfigurable Morphing Architectures ( <i>Adv. Mater.</i> 30/2021). <i>Advanced Materials</i> , 2021, 33, 2170236.	11.1	0
17	Ring Origami: Snapâ€Folding of Rings with Different Geometries. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100107.	3.3	14
18	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

#	ARTICLE	IF	CITATIONS
19	Magnetic Shape Memory Polymers with Integrated Multifunctional Shape Manipulation. <i>Advanced Materials</i> , 2020, 32, e1906657.	11.1	367
20	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
21	Magnetoactuated Reconfigurable Antennas on Hard-Magnetic Soft Substrates and E-Threads. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 5882-5892.	3.1	7
22	Evolutionary Algorithm-Guided Voxel-Encoding Printing of Functional Hard-Magnetic Soft Active Materials. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000060.	3.3	93
23	Self-adaptive flexible valve as passive flow regulator. <i>Extreme Mechanics Letters</i> , 2020, 39, 100824.	2.0	12
24	Multifunctional magnetic soft composites: a review. <i>Multifunctional Materials</i> , 2020, 3, 042003.	2.4	159
25	Micromechanics Study on Actuation Efficiency of Hard-Magnetic Soft Active Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	40
26	Symmetry-Breaking Actuation Mechanism for Soft Robotics and Active Metamaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41649-41658.	4.0	130
27	Mechanics of hard-magnetic soft materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 244-263.	2.3	307
28	Kirigami enhances film adhesion. <i>Soft Matter</i> , 2018, 14, 2515-2525.	1.2	74
29	Soft wall-climbing robots. <i>Science Robotics</i> , 2018, 3, .	9.9	419
30	Controlled crack propagation for atomic precision handling of wafer-scale two-dimensional materials. <i>Science</i> , 2018, 362, 665-670.	6.0	208
31	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
32	Printing ferromagnetic domains for untethered fast-transforming soft materials. <i>Nature</i> , 2018, 558, 274-279.	13.7	1,426
33	Multimodal Surface Instabilities in Curved Film-Substrate Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	1.1	39
34	<i>Ruga</i> mechanics of creasing: from instantaneous to setback creases. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20120753.	1.0	52