

# Rui Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

953  
citations

933447

10  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

1681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic manipulation by spiral hollow-fibre actuators. <i>Nature Communications</i> , 2022, 13, 1331.	12.8	34
2	Metamaterial-like aerogels for broadband vibration mitigation. <i>Soft Matter</i> , 2021, 17, 4496-4503.	2.7	6
3	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: $WS_2$ , $WSe_2$ , and $WTe_2$ . <i>ACS Nano</i> , 2021, 15, 2600-2610.	14.6	65
4	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. <i>Nano Letters</i> , 2021, 21, 3379-3385.	9.1	31
5	Somatosensitive film soft crawling robots driven by artificial muscle for load carrying and multi-terrain locomotion. <i>Materials Horizons</i> , 2021, 8, 1783-1794.	12.2	49
6	Intrinsic elastic conductors with internal buckled electron pathway for flexible electromagnetic interference shielding and tumor ablation. <i>Science China Materials</i> , 2020, 63, 1318-1329.	6.3	13
7	An efficient solution algorithm for space-time finite element method. <i>Computational Mechanics</i> , 2019, 63, 455-470.	4.0	6
8	Modeling the Compressive Buckling Strain as a Function of the Nanocomposite Interphase Thickness in a Carbon Nanotube Sheet Wrapped Carbon Fiber Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	2
9	A high-performance multiscale space-time approach to high cycle fatigue simulation based on hybrid CPU/GPU computing. <i>Finite Elements in Analysis and Design</i> , 2019, 166, 103320.	3.2	3
10	Photothermal Bimorph Actuators with In-built Cooler for Light Mills, Frequency Switches, and Soft Robots. <i>Advanced Functional Materials</i> , 2019, 29, 1808995.	14.9	88
11	Multi-responsive and multi-motion bimorph actuator based on super-aligned carbon nanotube sheets. <i>Carbon</i> , 2019, 148, 487-495.	10.3	48
12	Controllable Preparation of Ordered and Hierarchically Buckled Structures for Inflatable Tumor Ablation, Volumetric Strain Sensor, and Communication via Inflatable Antenna. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10862-10873.	8.0	15
13	Simulation-based prediction of cyclic failure in rubbery materials using nonlinear space-time finite element method coupled with continuum damage mechanics. <i>Finite Elements in Analysis and Design</i> , 2018, 138, 21-30.	3.2	6
14	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017, 8, 15815.	12.8	576
15	Accelerated multiscale space-time finite element simulation and application to high cycle fatigue life prediction. <i>Computational Mechanics</i> , 2016, 58, 329-349.	4.0	11