Rui Zhang

List of Publications by Year
in descending order

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