

# Zhong Zhang

## List of Publications by Citations

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44  
papers

2,761  
citations

25  
h-index

45  
g-index

45  
ext. papers

3,363  
ext. citations

9.3  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
44	Lightweight and Anisotropic Porous MWCNT/WPU Composites for Ultrahigh Performance Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 303-310	15.6	499
43	The effect of interlayer adhesion on the mechanical behaviors of macroscopic graphene oxide papers. <i>ACS Nano</i> , <b>2011</b> , 5, 2134-41	16.7	287
42	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805417	24	235
41	Thin and flexible multi-walled carbon nanotube/waterborne polyurethane composites with high-performance electromagnetic interference shielding. <i>Carbon</i> , <b>2016</b> , 96, 768-777	10.4	233
40	A hierarchically structured graphene foam and its potential as a large-scale strain-gauge sensor. <i>Nanoscale</i> , <b>2013</b> , 5, 12171-7	7.7	158
39	Monitoring a micromechanical process in macroscale carbon nanotube films and fibers. <i>Advanced Materials</i> , <b>2009</b> , 21, 603-8	24	124
38	Microstructure Design of Lightweight, Flexible, and High Electromagnetic Shielding Porous Multiwalled Carbon Nanotube/Polymer Composites. <i>Small</i> , <b>2017</b> , 13, 1701388	11	118
37	Measuring Interlayer Shear Stress in Bilayer Graphene. <i>Physical Review Letters</i> , <b>2017</b> , 119, 036101	7.4	111
36	High mechanical performance of layered graphene oxide/poly(vinyl alcohol) nanocomposite films. <i>Small</i> , <b>2013</b> , 9, 2466-72	11	107
35	High Performance Shape Memory Epoxy/Carbon Nanotube Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 311-20	9.5	97
34	Bending of Multilayer van der Waals Materials. <i>Physical Review Letters</i> , <b>2019</b> , 123, 116101	7.4	76
33	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. <i>Nanoscale</i> , <b>2019</b> , 11, 22804-22812	7.7	59
32	Mechanical behavior and properties of hydrogen bonded graphene/polymer nano-interfaces. <i>Composites Science and Technology</i> , <b>2016</b> , 136, 1-9	8.6	55
31	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. <i>Scientific Reports</i> , <b>2016</b> , 6, 18930	4.9	50
30	Interface-Governed Deformation of Nanobubbles and Nanotents Formed by Two-Dimensional Materials. <i>Physical Review Letters</i> , <b>2018</b> , 121, 266101	7.4	50
29	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7003-7010	15.6	44
28	Continuously Tunable Wettability by Using Surface Patterned Shape Memory Polymers with Giant Deformability. <i>Small</i> , <b>2016</b> , 12, 3327-33	11	41

27	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. <i>Polymer</i> , <b>2013</b> , 54, 3723-3729	3.9	40
26	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2020</b> , 135, 105927	8.4	34
25	Tuning friction to a superlubric state via in-plane straining. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24452-24456	11.5	32
24	Flexible and easy-to-tune broadband electromagnetic wave absorber based on carbon resistive film sandwiched by silicon rubber/multi-walled carbon nanotube composites. <i>Carbon</i> , <b>2017</b> , 121, 544-551	10.4	29
23	Carbon fiber reinforced shape memory epoxy composites with superior mechanical performances. <i>Composites Science and Technology</i> , <b>2019</b> , 177, 49-56	8.6	29
22	Encapsulation of shear thickening fluid as an easy-to-apply impact-resistant material. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22472-22479	13	29
21	Degradation and recovery of graphene/polymer interfaces under cyclic mechanical loading. <i>Composites Science and Technology</i> , <b>2017</b> , 149, 220-227	8.6	25
20	Multifunctional Polymer-Based Graphene Foams with Buckled Structure and Negative Poisson's Ratio. <i>Scientific Reports</i> , <b>2016</b> , 6, 32989	4.9	25
19	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 6541-6549	9.5	22
18	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26034-26043	3.8	20
17	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1563-1570	9.5	18
16	Interface mechanics in carbon nanomaterials-based nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 141, 106212	8.4	18
15	Mechanical responses of boron-doped monolayer graphene. <i>Carbon</i> , <b>2019</b> , 147, 594-601	10.4	17
14	Optimization of shear thickening fluid encapsulation technique and dynamic response of encapsulated capsules and polymeric composite. <i>Composites Science and Technology</i> , <b>2019</b> , 170, 165-173	8.6	12
13	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 40958-40967	9.5	11
12	Extended Hencky solution for the blister test of nanomembrane. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 22, 69-78	3.9	11
11	Mechanical response of shear thickening fluid filled composite subjected to different strain rates. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 196, 106304	5.5	9
10	Engineering the interface in mechanically responsive graphene-based films. <i>RSC Advances</i> , <b>2018</b> , 8, 36257-36263	5.7	63

9	A facile approach to fabricate two-way shape memory polyurethane with large reversible strain and high shape stability. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 055033	3.4	7
8	Out-of-Plane Deformations Determined Mechanics of Vanadium Disulfide (VS) Sheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3040-3050	9.5	6
7	Three-dimensional graphene coated shape memory polyurethane foam with fast responsive performance. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7444-7451	7.1	5
6	Effective fabrication of flexible negative refractive index metamaterials using a simple screen printing method. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5378-5386	7.1	4
5	Elastocapillary cleaning of twisted bilayer graphene interfaces. <i>Nature Communications</i> , <b>2021</b> , 12, 5069	17.4	4
4	Evaluation local strain of twisted bilayer graphene via moiré pattern. <i>Optics and Lasers in Engineering</i> , <b>2022</b> , 152, 106946	4.6	1
3	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. <i>Advanced Materials Interfaces</i> , 2101939	4.6	1
2	Holey Reduced Graphene Oxide Scaffolded Heterocyclic Aramid Fibers with Enhanced Mechanical Performance. <i>Advanced Functional Materials</i> , 2200937	15.6	0
1	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials (Adv. Mater. Interfaces 12/2022). <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2270069	4.6	