Zhong Zhang

List of Publications by Year in Descending Order

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	Evaluation local strain of twisted bilayer graphene via moiré pattern. *Optics and Lasers in Engineering*, **2022**, 152, 106946	4.6	1
43	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials (Adv. Mater. Interfaces 12/2022). *Advanced Materials Interfaces*, **2022**, 9, 2270069	4.6	
42	Mechanical response of shear thickening fluid filled composite subjected to different strain rates. *International Journal of Mechanical Sciences*, **2021**, 196, 106304	5.5	9
41	Interface mechanics in carbon nanomaterials-based nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2021**, 141, 106212	8.4	18
40	Out-of-Plane Deformations Determined Mechanics of Vanadium Disulfide (VS) Sheets. *ACS Applied Materials & Interfaces*, **2021**, 13, 3040-3050	9.5	6
39	Three-dimensional graphene coated shape memory polyurethane foam with fast responsive performance. *Journal of Materials Chemistry C*, **2021**, 9, 7444-7451	7.1	5
38	Elastocapillary cleaning of twisted bilayer graphene interfaces. *Nature Communications*, **2021**, 12, 5069	17.4	4
37	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. *Composites Part A: Applied Science and Manufacturing*, **2020**, 135, 105927	8.4	34
36	A facile approach to fabricate two-way shape memory polyurethane with large reversible strain and high shape stability. *Smart Materials and Structures*, **2020**, 29, 055033	3.4	7
35	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. *ACS Applied Materials & Interfaces*, **2020**, 12, 40958-40967	9.5	11
34	Bending of Multilayer van der Waals Materials. *Physical Review Letters*, **2019**, 123, 116101	7.4	76
33	Carbon fiber reinforced shape memory epoxy composites with superior mechanical performances. *Composites Science and Technology*, **2019**, 177, 49-56	8.6	29
32	Mechanical responses of boron-doped monolayer graphene. *Carbon*, **2019**, 147, 594-601	10.4	17
31	Tuning friction to a superlubric state via in-plane straining. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24452-24456	11.5	32
30	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. *Nanoscale*, **2019**, 11, 22804-22812	7.7	59
29	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. *Advanced Materials*, **2019**, 31, e1805417	24	235
28	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. *ACS Applied Materials & Interfaces*, **2019**, 11, 6541-6549	9.5	22

27	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. *ACS Applied Materials & Interfaces*, **2019**, 11, 1563-1570	9.5	18
26	Optimization of shear thickening fluid encapsulation technique and dynamic response of encapsulated capsules and polymeric composite. *Composites Science and Technology*, **2019**, 170, 165-173	8.6	12
25	Engineering the interface in mechanically responsive graphene-based films.. *RSC Advances*, **2018**, 8, 36257-36263	3.7	63
24	Interface-Governed Deformation of Nanobubbles and Nanotents Formed by Two-Dimensional Materials. *Physical Review Letters*, **2018**, 121, 266101	7.4	50
23	Extended Hencky solution for the blister test of nanomembrane. *Extreme Mechanics Letters*, **2018**, 22, 69-78	3.9	11
22	Degradation and recovery of graphene/polymer interfaces under cyclic mechanical loading. *Composites Science and Technology*, **2017**, 149, 220-227	8.6	25
21	Effective fabrication of flexible negative refractive index metamaterials using a simple screen printing method. *Journal of Materials Chemistry C*, **2017**, 5, 5378-5386	7.1	4
20	Flexible and easy-to-tune broadband electromagnetic wave absorber based on carbon resistive film sandwiched by silicon rubber/multi-walled carbon nanotube composites. *Carbon*, **2017**, 121, 544-551	10.4	29
19	Measuring Interlayer Shear Stress in Bilayer Graphene. *Physical Review Letters*, **2017**, 119, 036101	7.4	111
18	Microstructure Design of Lightweight, Flexible, and High Electromagnetic Shielding Porous Multiwalled Carbon Nanotube/Polymer Composites. *Small*, **2017**, 13, 1701388	11	118
17	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. *Journal of Physical Chemistry C*, **2017**, 121, 26034-26043	3.8	20
16	Encapsulation of shear thickening fluid as an easy-to-apply impact-resistant material. *Journal of Materials Chemistry A*, **2017**, 5, 22472-22479	13	29
15	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. *Advanced Functional Materials*, **2016**, 26, 7003-7010	15.6	44
14	Mechanical behavior and properties of hydrogen bonded graphene/polymer nano-interfaces. *Composites Science and Technology*, **2016**, 136, 1-9	8.6	55
13	Multifunctional Polymer-Based Graphene Foams with Buckled Structure and Negative Poisson's Ratio. *Scientific Reports*, **2016**, 6, 32989	4.9	25
12	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. *Scientific Reports*, **2016**, 6, 18930	4.9	50
11	Continuously Tunable Wettability by Using Surface Patterned Shape Memory Polymers with Giant Deformability. *Small*, **2016**, 12, 3327-33	11	41
10	High Performance Shape Memory Epoxy/Carbon Nanotube Nanocomposites. *ACS Applied Materials & Interfaces*, **2016**, 8, 311-20	9.5	97

9	Thin and flexible multi-walled carbon nanotube/waterborne polyurethane composites with high-performance electromagnetic interference shielding. *Carbon*, **2016**, 96, 768-777	10.4	233
8	Lightweight and Anisotropic Porous MWCNT/WPU Composites for Ultrahigh Performance Electromagnetic Interference Shielding. *Advanced Functional Materials*, **2016**, 26, 303-310	15.6	499
7	High mechanical performance of layered graphene oxide/poly(vinyl alcohol) nanocomposite films. *Small*, **2013**, 9, 2466-72	11	107
6	A hierarchically structured graphene foam and its potential as a large-scale strain-gauge sensor. *Nanoscale*, **2013**, 5, 12171-7	7.7	158
5	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. *Polymer*, **2013**, 54, 3723-3729	3.9	40
4	The effect of interlayer adhesion on the mechanical behaviors of macroscopic graphene oxide papers. *ACS Nano*, **2011**, 5, 2134-41	16.7	287
3	Monitoring a micromechanical process in macroscale carbon nanotube films and fibers. *Advanced Materials*, **2009**, 21, 603-8	24	124
2	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. *Advanced Materials Interfaces*,2101939	4.6	1
1	Holey Reduced Graphene Oxide Scaffolded Heterocyclic Aramid Fibers with Enhanced Mechanical Performance. *Advanced Functional Materials*,2200937	15.6	0