

Zhaohe Dai

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

2,282
citations

25
h-index

47
g-index

55
ext. papers

2,952
ext. citations

8.8
avg, IF

5.48
L-index

#	Paper	IF	Citations
53	Mechanical sensors based on two-dimensional materials: Sensing mechanisms, structural designs and wearable applications.. <i>IScience</i> , 2022 , 25, 103728	6.1	1
52	2D Material Bubbles: Fabrication, Characterization, and Applications. <i>Trends in Chemistry</i> , 2021 , 3, 204-217	14.8	5
51	Poking and bulging of suspended thin sheets: Slippage, instabilities, and metrology. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 149, 104320	5	8
50	Strengthening in Metal/Graphene Composites: Capturing the Transition from Interface to Precipitate Hardening. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26610-26620	9.5	3
49	Elastic wetting: Substrate-supported droplets confined by soft elastic membranes. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 151, 104399	5	8
48	Piezocatalytic Foam for Highly Efficient Degradation of Aqueous Organics. <i>Small Science</i> , 2021 , 1, 2000011		9
47	Out-of-Plane Deformations Determined Mechanics of Vanadium Disulfide (VS) Sheets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3040-3050	9.5	6
46	Elastocapillary cleaning of twisted bilayer graphene interfaces. <i>Nature Communications</i> , 2021 , 12, 5069	17.4	4
45	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 135, 105927	8.4	34
44	Radial buckle delamination around 2D material tents. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103843	5	12
43	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40958-40967	9.5	11
42	Mechanics at the interfaces of 2D materials: Challenges and opportunities. <i>Current Opinion in Solid State and Materials Science</i> , 2020 , 24, 100837	12	24
41	Stretchability of PMMA-supported CVD graphene and of its electrical contacts. <i>2D Materials</i> , 2020 , 7, 014003	5.9	7
40	Bending of Multilayer van der Waals Materials. <i>Physical Review Letters</i> , 2019 , 123, 116101	7.4	76
39	Modular and Reconfigurable Wireless E-Tattoos for Personalized Sensing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900117	6.8	57
38	Mechanical responses of boron-doped monolayer graphene. <i>Carbon</i> , 2019 , 147, 594-601	10.4	17
37	"Cut-and-paste" method for the rapid prototyping of soft electronics.. <i>Science China Technological Sciences</i> , 2019 , 62, 199-208	3.5	3

36	Crack Control in Biotemplated Gold Films for Wide-Range, Highly Sensitive Strain Sensing. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901223	4.6	6
35	2D Materials: Strain Engineering of 2D Materials: Issues and Opportunities at the Interface (Adv. Mater. 45/2019). <i>Advanced Materials</i> , 2019 , 31, 1970322	24	7
34	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. <i>Nanoscale</i> , 2019 , 11, 22804-22812	7.7	59
33	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. <i>Advanced Materials</i> , 2019 , 31, e1805417	24	235
32	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6541-6549	9.5	22
31	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1563-1570	9.5	18
30	Low-cost, thin-thick, tape-free electronic tattoo sensors with minimized motion and sweat artifacts. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	87
29	A temperature-activated nanocomposite metamaterial absorber with a wide tunability. <i>Nano Research</i> , 2018 , 11, 3931-3942	10	13
28	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018 , 30, 1703279	24	122
27	Mechanics of spontaneously formed nanoblisters trapped by transferred 2D crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7884-7889	11.5	80
26	Engineering the interface in mechanically responsive graphene-based films.. <i>RSC Advances</i> , 2018 , 8, 36257-36263	5.7	63
25	Interface-Governed Deformation of Nanobubbles and Nanotents Formed by Two-Dimensional Materials. <i>Physical Review Letters</i> , 2018 , 121, 266101	7.4	50
24	Multiscale Hierarchical Design of a Flexible Piezoresistive Pressure Sensor with High Sensitivity and Wide Linearity Range. <i>Small</i> , 2018 , 14, e1800819	11	190
23	Cyclic microbridge testing of graphene oxide membrane. <i>Carbon</i> , 2017 , 116, 479-489	10.4	3
22	Degradation and recovery of graphene/polymer interfaces under cyclic mechanical loading. <i>Composites Science and Technology</i> , 2017 , 149, 220-227	8.6	25
21	Construction of Small-Diameter Vascular Graft by Shape-Memory and Self-Rolling Bacterial Cellulose Membrane. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601343	10.1	58
20	Measuring Interlayer Shear Stress in Bilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 036101	7.4	111
19	Elastic-plastic properties of graphene engineered by oxygen functional groups. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 385305	3	3

18	Graphene welded carbon nanotube crossbars for biaxial strain sensors. <i>Carbon</i> , 2017 , 123, 786-793	10.4	36
17	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26034-26043	3.8	20
16	NFC-enabled, tattoo-like stretchable biosensor manufactured by "cut-and-paste" method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 4094-4097	0.9	14
15	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. <i>Advanced Functional Materials</i> , 2016 , 26, 7003-7010	15.6	44
14	Mechanical behavior and properties of hydrogen bonded graphene/polymer nano-interfaces. <i>Composites Science and Technology</i> , 2016 , 136, 1-9	8.6	55
13	Multifunctional Polymer-Based Graphene Foams with Buckled Structure and Negative Poisson's Ratio. <i>Scientific Reports</i> , 2016 , 6, 32989	4.9	25
12	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. <i>Scientific Reports</i> , 2016 , 6, 18930	4.9	50
11	Strain Sensing: Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors (Adv. Funct. Mater. 13/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2038-2038	15.6	2
10	Tuning the Interfacial Mechanical Behaviors of Monolayer Graphene/PMMA Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22554-62	9.5	68
9	Tough polypseudorotaxane supramolecular hydrogels with dual-responsive shape memory properties. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1924-1931	7.3	41
8	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2016 , 26, 2078-2084	15.6	276
7	Effect of folded and crumpled morphologies of graphene oxide platelets on the mechanical performances of polymer nanocomposites. <i>Polymer</i> , 2015 , 68, 131-139	3.9	40
6	Synergistic effects from graphene and carbon nanotubes endow ordered hierarchical structure foams with a combination of compressibility, super-elasticity and stability and potential application as pressure sensors. <i>Nanoscale</i> , 2015 , 7, 9252-60	7.7	97
5	Synergistic effect of a r-GO/PANI nanocomposite electrode based air working ionic actuator with a large actuation stroke and long-term durability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8380-8388	13	44
4	Biaxial compressive behavior of embedded monolayer graphene inside flexible poly (methyl methacrylate) matrix. <i>Carbon</i> , 2015 , 86, 69-77	10.4	22
3	Nanostructured carbon materials based electrothermal air pump actuators. <i>Nanoscale</i> , 2014 , 6, 6932-8	7.7	24
2	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. <i>Polymer</i> , 2013 , 54, 3723-3729	3.9	40
1	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. <i>Advanced Materials Interfaces</i> , 2101939	4.6	1

