

Zhaohe Dai

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,577
citations

147726

31
h-index

161767

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55
all docs

55
docs citations

55
times ranked

5090
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. <i>Advanced Materials</i> , 2019, 31, e1805417.	11.1	415
2	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2016, 26, 2078-2084.	7.8	328
3	Multiscale Hierarchical Design of a Flexible Piezoresistive Pressure Sensor with High Sensitivity and Wide Linearity Range. <i>Small</i> , 2018, 14, e1800819.	5.2	326
4	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, 1703279.	11.1	157
5	Measuring Interlayer Shear Stress in Bilayer Graphene. <i>Physical Review Letters</i> , 2017, 119, 036101.	2.9	155
6	Bending of Multilayer van der Waals Materials. <i>Physical Review Letters</i> , 2019, 123, 116101.	2.9	139
7	Low-cost, 1/4m-thick, tape-free electronic tattoo sensors with minimized motion and sweat artifacts. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	132
8	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.	3.3	130
9	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, 9252-9260.	2.8	126
10	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. <i>Nanoscale</i> , 2019, 11, 22804-22812.	2.8	106
11	Interface-Governed Deformation of Nanobubbles and Nanotents Formed by Two-Dimensional Materials. <i>Physical Review Letters</i> , 2018, 121, 266101.	2.9	86
12	Modular and Reconfigurable Wireless E-Tattoos for Personalized Sensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900117.	3.0	86
13	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105927.	3.8	85
14	Tuning the Interfacial Mechanical Behaviors of Monolayer Graphene/PMMA Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22554-22562.	4.0	84
15	Mechanical behavior and properties of hydrogen bonded graphene/polymer nano-interfaces. <i>Composites Science and Technology</i> , 2016, 136, 1-9.	3.8	80
16	Construction of Small-Diameter Vascular Graft by Shape-Memory and Self-Rolling Bacterial Cellulose Membrane. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601343.	3.9	79
17	Mechanics at the interfaces of 2D materials: Challenges and opportunities. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100837.	5.6	61
18	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.	5.2	56

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19	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. <i>Scientific Reports</i> , 2016, 6, 18930.	1.6	56
20	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. <i>Advanced Functional Materials</i> , 2016, 26, 7003-7010.	7.8	53
21	Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature. <i>Polymer</i> , 2013, 54, 3723-3729.	1.8	45
22	Effect of folded and crumpled morphologies of graphene oxide platelets on the mechanical performances of polymer nanocomposites. <i>Polymer</i> , 2015, 68, 131-139.	1.8	45
23	Tough polypseudorotaxane supramolecular hydrogels with dual-responsive shape memory properties. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1924-1931.	2.9	44
24	Graphene welded carbon nanotube crossbars for biaxial strain sensors. <i>Carbon</i> , 2017, 123, 786-793.	5.4	44
25	Degradation and recovery of graphene/polymer interfaces under cyclic mechanical loading. <i>Composites Science and Technology</i> , 2017, 149, 220-227.	3.8	38
26	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40958-40967.	4.0	35
27	Radial buckle delamination around 2D material tents. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103843.	2.3	34
28	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26034-26043.	1.5	33
29	Nanostructured carbon materials based electrothermal air pump actuators. <i>Nanoscale</i> , 2014, 6, 6932-6938.	2.8	32
30	Piezocatalytic Foam for Highly Efficient Degradation of Aqueous Organics. <i>Small Science</i> , 2021, 1, 2000011.	5.8	32
31	Poking and bulging of suspended thin sheets: Slippage, instabilities, and metrology. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 149, 104320.	2.3	32
32	Multifunctional Polymer-Based Graphene Foams with Buckled Structure and Negative Poisson's Ratio. <i>Scientific Reports</i> , 2016, 6, 32989.	1.6	31
33	2D Material Bubbles: Fabrication, Characterization, and Applications. <i>Trends in Chemistry</i> , 2021, 3, 204-217.	4.4	31
34	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6541-6549.	4.0	30
35	Biaxial compressive behavior of embedded monolayer graphene inside flexible poly (methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5	5.4	29
36	Mechanical responses of boron-doped monolayer graphene. <i>Carbon</i> , 2019, 147, 594-601.	5.4	28

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37	Strengthening in Metal/Graphene Composites: Capturing the Transition from Interface to Precipitate Hardening. ACS Applied Materials & Interfaces, 2021, 13, 26610-26620.	4.0	27
38	Elastic wetting: Substrate-supported droplets confined by soft elastic membranes. Journal of the Mechanics and Physics of Solids, 2021, 151, 104399.	2.3	24
39	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. ACS Applied Materials & Interfaces, 2019, 11, 1563-1570.	4.0	23
40	A temperature-activated nanocomposite metamaterial absorber with a wide tunability. Nano Research, 2018, 11, 3931-3942.	5.8	22
41	Out-of-Plane Deformations Determined Mechanics of Vanadium Disulfide (VS_2) Sheets. ACS Applied Materials & Interfaces, 2021, 13, 3040-3050.	4.0	21
42	Elastocapillary cleaning of twisted bilayer graphene interfaces. Nature Communications, 2021, 12, 5069.	5.8	19
43	NFC-enabled, tattoo-like stretchable biosensor manufactured by "cut-and-paste" method. , 2017, 2017, 4094-4097.		19
44	Crack Control in Biotemplated Gold Films for Wide-Range, Highly Sensitive Strain Sensing. Advanced Materials Interfaces, 2019, 6, 1901223.	1.9	17
45	Stretchability of PMMA-supported CVD graphene and of its electrical contacts. 2D Materials, 2020, 7, 014003.	2.0	17
46	2D Materials: Strain Engineering of 2D Materials: Issues and Opportunities at the Interface (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	11.1	14
47	Engineering the interface in mechanically responsive graphene-based films. RSC Advances, 2018, 8, 36257-36263.	1.7	13
48	Mechanical Behavior of Blisters Spontaneously Formed by Multilayer 2D Materials. Advanced Materials Interfaces, 2022, 9, .	1.9	12
49	Mechanical sensors based on two-dimensional materials: Sensing mechanisms, structural designs and wearable applications. IScience, 2022, 25, 103728.	1.9	11
50	Two-dimensional crystals on adhesive substrates subjected to uniform transverse pressure. International Journal of Solids and Structures, 2022, 257, 111829.	1.3	11
51	Elastic-plastic properties of graphene engineered by oxygen functional groups. Journal Physics D: Applied Physics, 2017, 50, 385305.	1.3	6
52	Droplets on lubricated surfaces: The slow dynamics of skirt formation. Physical Review Fluids, 2022, 7, .	1.0	6
53	"Cut-and-paste" method for the rapid prototyping of soft electronics. Science China Technological Sciences, 2019, 62, 199-208.	2.0	5
54	Cyclic microbridge testing of graphene oxide membrane. Carbon, 2017, 116, 479-489.	5.4	4

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55	Strain Sensing: Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	7.8	3