

Yin-Bo Zhu

List of Publications by Citations

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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.

76
papers

2,117
citations

24
h-index

45
g-index

78
ext. papers

2,975
ext. citations

8.3
avg, IF

5.33
L-index

#	Paper	IF	Citations
76	Joule-heated graphene-wrapped sponge enables fast clean-up of viscous crude-oil spill. <i>Nature Nanotechnology</i> , 2017 , 12, 434-440	28.7	431
75	Super-elastic and fatigue resistant carbon material with lamellar multi-arch microstructure. <i>Nature Communications</i> , 2016 , 7, 12920	17.4	245
74	Bioinspired polymeric woods. <i>Science Advances</i> , 2018 , 4, eaat7223	14.3	135
73	Superelastic Hard Carbon Nanofiber Aerogels. <i>Advanced Materials</i> , 2019 , 31, e1900651	24	88
72	Lightweight, tough, and sustainable cellulose nanofiber-derived bulk structural materials with low thermal expansion coefficient. <i>Science Advances</i> , 2020 , 6, eaaz1114	14.3	88
71	Multiscale transport mechanism of shale gas in micro/nano-pores. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 1172-1180	4.9	77
70	Compression Limit of Two-Dimensional Water Constrained in Graphene Nanocapillaries. <i>ACS Nano</i> , 2015 , 9, 12197-204	16.7	68
69	Multiscale simulations of shale gas transport in micro/nano-porous shale matrix considering pore structure influence. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 64, 28-40	4.6	64
68	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electro-oxidation. <i>Advanced Materials</i> , 2019 , 31, e1900528	24	57
67	Pressure-dependent transport characteristic of methane gas in slit nanopores. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 657-667	4.9	52
66	Shape-Controlled Deterministic Assembly of Nanowires. <i>Nano Letters</i> , 2016 , 16, 2644-50	11.5	46
65	Biomimetic twisted plywood structural materials. <i>National Science Review</i> , 2018 , 5, 703-714	10.8	44
64	Superior Biomimetic Nacreous Bulk Nanocomposites by a Multiscale Soft-Rigid Dual-Network Interfacial Design Strategy. <i>Matter</i> , 2019 , 1, 412-427	12.7	38
63	Mechanical properties of copper octet-truss nanolattices. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 101, 133-149	5	34
62	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nano-to-Subnano Confined Water Clusters. <i>Advanced Materials</i> , 2020 , 32, e2001777	24	32
61	Lattice Boltzmann method simulations about shale gas flow in contracting nano-channels. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 1210-1221	4.9	32
60	Bioinspired hierarchical helical nanocomposite macrofibers based on bacterial cellulose nanofibers. <i>National Science Review</i> , 2020 , 7, 73-83	10.8	31

59	Bio-Inspired Lotus-Fiber-like Spiral Hydrogel Bacterial Cellulose Fibers. <i>Nano Letters</i> , 2021 , 21, 952-958	11.5	31
58	Transport of Shale Gas in Microporous/Nanoporous Media: Molecular to Pore-Scale Simulations. <i>Energy & Fuels</i> , 2021 , 35, 911-943	4.1	29
57	Strengthening and Toughening Hierarchical Nanocellulose Humidity-Mediated Interface. <i>ACS Nano</i> , 2021 , 15, 1310-1320	16.7	28
56	Multiscale modeling and theoretical prediction for the thermal conductivity of porous plain-woven carbonized silica/phenolic composites. <i>Composite Structures</i> , 2019 , 215, 278-288	5.3	26
55	Two-Phase Transport Characteristic of Shale Gas and Water through Hydrophilic and Hydrophobic Nanopores. <i>Energy & Fuels</i> , 2020 , 34, 4407-4420	4.1	26
54	Super-elasticity and deformation mechanism of three-dimensional pillared graphene network structures. <i>Carbon</i> , 2017 , 118, 588-596	10.4	25
53	Mechanical Properties of Penta-Graphene Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9642-9647	9.47	24
52	Optimization design on simultaneously strengthening and toughening graphene-based nacre-like materials through noncovalent interaction. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 133, 103706	5	22
51	Dehydration impeding ionic conductance through two-dimensional angstrom-scale slits. <i>Nanoscale</i> , 2019 , 11, 8449-8457	7.7	21
50	Water Confined in Nanocapillaries: Two-Dimensional Bilayer Squarelike Ice and Associated Solid-Liquid-Solid Transition. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6704-6712	3.8	21
49	Formation of Trilayer Ices in Graphene Nanocapillaries under High Lateral Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8109-8115	3.8	19
48	Molecular insights into the initial formation of pyrolytic carbon upon carbon fiber surface. <i>Carbon</i> , 2019 , 148, 307-316	10.4	18
47	Origin of Batch Hydrothermal Fluid Behavior and Its Influence on Nanomaterial Synthesis. <i>Matter</i> , 2020 , 2, 1270-1282	12.7	16
46	AB-stacked square-like bilayer ice in graphene nanocapillaries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22039-46	3.6	16
45	Charge Asymmetry Effect in Ion Transport through Angstrom-Scale Channels. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1462-1469	3.8	15
44	Ultrafast water evaporation through graphene membranes with subnanometer pores for desalination. <i>Journal of Membrane Science</i> , 2021 , 621, 118934	9.6	15
43	Superheating of monolayer ice in graphene nanocapillaries. <i>Journal of Chemical Physics</i> , 2017 , 146, 134703	9.3	12
42	Superstrong Noncovalent Interface between Melamine and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17068-17078	9.5	12

41	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors. <i>Advanced Materials</i> , 2021 , 33, e2102724	24	12
40	Pushing detectability and sensitivity for subtle force to new limits with shrinkable nanochannel structured aerogel. <i>Nature Communications</i> , 2022 , 13, 1119	17.4	12
39	Self-folding mechanics of graphene tearing and peeling from a substrate. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	11
38	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40958-40967	9.5	11
37	Peculiarities in breakup and transport process of shock-induced ejecta with surrounding gas. <i>Journal of Applied Physics</i> , 2019 , 125, 185901	2.5	10
36	Unsupported shock wave induced dynamic fragmentation of matrix in lead with surface grooves. <i>Computational Materials Science</i> , 2019 , 156, 404-410	3.2	10
35	Helium bubbles aggravated defects production in self-irradiated copper. <i>Journal of Nuclear Materials</i> , 2017 , 496, 265-273	3.3	9
34	Molecular dynamics simulations of ejecta production from sinusoidal tin surfaces under supported and unsupported shocks. <i>AIP Advances</i> , 2018 , 8, 045002	1.5	9
33	Structural and dynamic characteristics in monolayer square ice. <i>Journal of Chemical Physics</i> , 2017 , 147, 044706	3.9	9
32	Buckling failure of square ice-nanotube arrays constrained in graphene nanocapillaries. <i>Journal of Chemical Physics</i> , 2016 , 145, 054704	3.9	9
31	Micromechanical properties of pyrolytic carbon with interlayer crosslink. <i>Carbon</i> , 2020 , 159, 549-560	10.4	8
30	Multiscale investigations into the fracture toughness of SiC/graphene composites: Atomistic simulations and crack-bridging model. <i>Ceramics International</i> , 2020 , 46, 29101-29110	5.1	6
29	Fast reaction of aluminum nanoparticles promoted by oxide shell. <i>Journal of Applied Physics</i> , 2019 , 126, 144305	2.5	6
28	Formation and topological structure of three-dimensional disordered graphene networks. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10290-10302	3.6	6
27	Micromechanical Landscape of Three-Dimensional Disordered Graphene Networks. <i>Nano Letters</i> , 2021 , 21, 8401-8408	11.5	5
26	A universal mechanical framework for noncovalent interface in laminated nanocomposites. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 158, 104560	5	4
25	Edge effect on interlayer shear in multilayer two-dimensional material assemblies. <i>International Journal of Solids and Structures</i> , 2020 , 204-205, 128-137	3.1	4
24	Multi-parameter structural optimization to reconcile mechanical conflicts in nacre-like composites. <i>Composite Structures</i> , 2021 , 259, 113225	5.3	4

23	Effect of grain boundaries on mechanical transverse wave propagations in graphene. <i>Journal of Applied Physics</i> , 2017 , 121, 215105	2.5	3
22	Defect production and segregation induced by collision cascades in U-10Zr alloy. <i>Journal of Nuclear Materials</i> , 2019 , 526, 151769	3.3	3
21	Elastic-plastic properties of graphene engineered by oxygen functional groups. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 385305	3	3
20	Artificial Nacre with High Toughness Amplification Factor: Residual Stress-Engineering Sparks Enhanced Extrinsic Toughening Mechanisms.. <i>Advanced Materials</i> , 2021 , e2108267	24	3
19	Double-Layer Nacre-Inspired Polyimide-Mica Nanocomposite Films with Excellent Mechanical Stability for LEO Environmental Conditions. <i>Advanced Materials</i> , 2021 , e2105299	24	3
18	Porous Characteristics of Three-Dimensional Disordered Graphene Networks. <i>Crystals</i> , 2021 , 11, 127	2.3	3
17	Biomimetic discontinuous Bouligand structural design enables high-performance nanocomposites. <i>Matter</i> , 2022 ,	12.7	3
16	Hard Carbon Aerogels: Superelastic Hard Carbon Nanofiber Aerogels (Adv. Mater. 23/2019). <i>Advanced Materials</i> , 2019 , 31, 1970168	24	2
15	Structure and transport of confined liquid in nanochannels. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018 , 48, 094609	1.5	2
14	Anomalously low friction of confined monolayer water with a quadrilateral structure. <i>Journal of Chemical Physics</i> , 2021 , 154, 224508	3.9	2
13	Intrinsic kink deformation in nanocellulose. <i>Carbohydrate Polymers</i> , 2021 , 273, 118578	10.3	2
12	Unravelling the bindings between organic molecule and reduced graphene oxide in aqueous environment. <i>Carbon</i> , 2020 , 167, 345-350	10.4	1
11	Hyperbolic-Like Structure with Negative Poisson's Ratio: Deformation Mechanism and Structural Design. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2100011	1.3	1
10	Theoretical analysis of high strength and anti-buckling of three-dimensional carbon honeycombs under shear loading. <i>Composites Part B: Engineering</i> , 2021 , 219, 108967	10	1
9	Multiscale mechanics of noncovalent interface in graphene oxide layered nanocomposites. <i>Theoretical and Applied Mechanics Letters</i> , 2021 , 100304	1.8	0
8	Biomimetic polydimethylsiloxane (PDMS)/carbon fiber lamellar adhesive composite in thermal vacuum environment. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 105, 102778	3.4	0
7	Stress analysis of double-walled pipes undergone mechanical drawing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 2525	3.2	
6	AB-Stacked and AA-Stacked Bilayer Ices in Graphene Nanocapillaries. <i>Springer Theses</i> , 2020 , 67-87	0.1	

5	Monolayer Square-Like Ice Between Two Graphene Sheets. <i>Springer Theses</i> , 2020 , 35-47	0.1
4	Trilayer Ice in Graphene Nanocapillaries. <i>Springer Theses</i> , 2020 , 89-99	0.1
3	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors (Adv. Mater. 39/2021). <i>Advanced Materials</i> , 2021 , 33, 2170308	24
2	Superheating Behavior of Monolayer Ice in Graphene Nanocapillaries. <i>Springer Theses</i> , 2020 , 49-65	0.1
1	The Device Using a Polydimethylsiloxane Membrane and the Phase Transition of Water. <i>Coatings</i> , 2021 , 11, 1102	2.9