Zhigong Song

List of Publications by Year
in descending order

20 papers	1,994 citations	471509 17 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	3051 citing authors

#	Article	IF	Citations
1	Ultrafast viscous water flow through nanostrand-channelled graphene oxide membranes. Nature Communications, 2013, 4, 2979.	12.8	673
2	Selective Trans-Membrane Transport of Alkali and Alkaline Earth Cations through Graphene Oxide Membranes Based on Cationâ^'Ï€ Interactions. ACS Nano, 2014, 8, 850-859.	14.6	333
3	Ultrafast Molecule Separation through Layered WS₂ Nanosheet Membranes. ACS Nano, 2014, 8, 6304-6311.	14.6	276
4	Pseudo Hallâ€“Petch Strength Reduction in Polycrystalline Graphene. Nano Letters, 2013, 13, 1829-1833.	9.1	172
5	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. Nature, 2021, 594, 57-61.	27.8	105
6	Cracks fail to intensify stress in nacreous composites. Composites Science and Technology, 2013, 81, 24-29.	7.8	66
7	Defect-Detriment to Graphene Strength Is Concealed by Local Probe: The Topological and Geometrical Effects. ACS Nano, 2015, 9, 401-408.	14.6	66
8	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. Chemical Science, 2016, 7, 6988-6994.	7.4	66
9	Characterizing phonon thermal conduction in polycrystalline graphene. Journal of Materials Research, 2014, 29, 362-372.	2.6	42
10	Ultimate Osmosis Engineered by the Pore Geometry and Functionalization of Carbon Nanostructures. Scientific Reports, 2015, 5, 10597.	3.3	32
11	How graphene crumples are stabilized?. RSC Advances, 2013, 3, 2720.	3.6	29
12	Geometrical effect â€˜stiffensâ€™ graphene membrane at finite vacancy concentrations. Extreme Mechanics Letters, 2016, 6, 82-87.	4.1	24
13	Geometrical distortion leads to Griffith strength reduction in graphene membranes. Extreme Mechanics Letters, 2017, 14, 31-37.	4.1	22
14	Topological Defects in Two-Dimensional Crystals: The Stress Buildup and Accumulation. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	19
15	On the Fracture of Supported Graphene Under Pressure. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	17
16	Mechanical responses of the bio-nano interface: A molecular dynamics study of graphene-coated lipid membrane. Theoretical and Applied Mechanics Letters, 2015, 5, 231-235.	2.8	17
17	Thermal transport in oxidized polycrystalline graphene. Carbon, 2016, 108, 318-326.	10.3	17
18	Mechanistic transition of heat conduction in two-dimensional solids: A study of silica bilayers. Physical Review B, 2015, 92, .	3.2	8

#	Article	IF	Citations
19	Unzipping of carbon nanotubes is geometry-dependent. Nanotechnology, 2016, 27, 015601.	2.6	7
20	Hydrogen bonding sewing interface. RSC Advances, 2020, 10, 17438-17443.	3.6	3