

Zhigong Song

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7283265/publications.pdf>

Version: 2024-02-01

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 | Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021, 594, 57-61. | 27.8 | 105 |
| 2 | Hydrogen bonding sewing interface. <i>RSC Advances</i> , 2020, 10, 17438-17443. | 3.6 | 3 |
| 3 | Geometrical distortion leads to Griffith strength reduction in graphene membranes. <i>Extreme Mechanics Letters</i> , 2017, 14, 31-37. | 4.1 | 22 |
| 4 | Thermal transport in oxidized polycrystalline graphene. <i>Carbon</i> , 2016, 108, 318-326. | 10.3 | 17 |
| 5 | Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. <i>Chemical Science</i> , 2016, 7, 6988-6994. | 7.4 | 66 |
| 6 | Geometrical effect of stiffness of graphene membrane at finite vacancy concentrations. <i>Extreme Mechanics Letters</i> , 2016, 6, 82-87. | 4.1 | 24 |
| 7 | Unzipping of carbon nanotubes is geometry-dependent. <i>Nanotechnology</i> , 2016, 27, 015601. | 2.6 | 7 |
| 8 | Mechanistic transition of heat conduction in two-dimensional solids: A study of silica bilayers. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 8 |
| 9 | Ultimate Osmosis Engineered by the Pore Geometry and Functionalization of Carbon Nanostructures. <i>Scientific Reports</i> , 2015, 5, 10597. | 3.3 | 32 |
| 10 | Mechanical responses of the bio-nano interface: A molecular dynamics study of graphene-coated lipid membrane. <i>Theoretical and Applied Mechanics Letters</i> , 2015, 5, 231-235. | 2.8 | 17 |
| 11 | Defect-Detriment to Graphene Strength Is Concealed by Local Probe: The Topological and Geometrical Effects. <i>ACS Nano</i> , 2015, 9, 401-408. | 14.6 | 66 |
| 12 | Topological Defects in Two-Dimensional Crystals: The Stress Buildup and Accumulation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, . | 2.2 | 19 |
| 13 | Selective Trans-Membrane Transport of Alkali and Alkaline Earth Cations through Graphene Oxide Membranes Based on Cation- π Interactions. <i>ACS Nano</i> , 2014, 8, 850-859. | 14.6 | 333 |
| 14 | Ultrafast Molecule Separation through Layered WS ₂ Nanosheet Membranes. <i>ACS Nano</i> , 2014, 8, 6304-6311. | 14.6 | 276 |
| 15 | Characterizing phonon thermal conduction in polycrystalline graphene. <i>Journal of Materials Research</i> , 2014, 29, 362-372. | 2.6 | 42 |
| 16 | Ultrafast viscous water flow through nanostrand-channelled graphene oxide membranes. <i>Nature Communications</i> , 2013, 4, 2979. | 12.8 | 673 |
| 17 | On the Fracture of Supported Graphene Under Pressure. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 2.2 | 17 |
| 18 | How graphene crumples are stabilized?. <i>RSC Advances</i> , 2013, 3, 2720. | 3.6 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Cracks fail to intensify stress in nacreous composites. <i>Composites Science and Technology</i> , 2013, 81, 24-29. | 7.8 | 66 |
| 20 | Pseudo Hall-Petch Strength Reduction in Polycrystalline Graphene. <i>Nano Letters</i> , 2013, 13, 1829-1833. | 9.1 | 172 |