

Jun Xia

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,080
citations

516710

16
h-index

580821

25
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26
docs citations

26
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	Grapheneâ€Piezoelectric Material Heterostructure for Harvesting Energy from Water Flow. <i>Advanced Functional Materials</i> , 2017, 27, 1604226.	14.9	121
2	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electroâ€Oxidation. <i>Advanced Materials</i> , 2019, 31, e1900528.	21.0	111
3	Solidâ€liquid phase transition induced electrocatalytic switching from hydrogen evolution to highly selective CO2 reduction. <i>Nature Catalysis</i> , 2021, 4, 202-211.	34.4	89
4	Strengthening and Toughening Hierarchical Nanocellulose <i>via</i> Humidity-Mediated Interface. <i>ACS Nano</i> , 2021, 15, 1310-1320.	14.6	85
5	Superior Biomimetic Nacreous Bulk Nanocomposites by a Multiscale Soft-Rigid Dual-Network Interfacial Design Strategy. <i>Matter</i> , 2019, 1, 412-427.	10.0	81
6	Biomimetic twisted plywood structural materials. <i>National Science Review</i> , 2018, 5, 703-714.	9.5	79
7	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nanoâ€Subnano Confined Water Clusters. <i>Advanced Materials</i> , 2020, 32, e2001777.	21.0	72
8	Multiscale gas transport behavior in heterogeneous shale matrix consisting of organic and inorganic nanopores. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103139.	4.4	67
9	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors. <i>Advanced Materials</i> , 2021, 33, e2102724.	21.0	51
10	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic frameworkâ€based nanochannels. <i>Science Advances</i> , 2022, 8, eabl5070.	10.3	48
11	Dehydration impeding ionic conductance through two-dimensional angstrom-scale slits. <i>Nanoscale</i> , 2019, 11, 8449-8457.	5.6	40
12	Nanoconfined Transport Characteristic of Methane in Organic Shale Nanopores: The Applicability of the Continuous Model. <i>Energy & Fuels</i> , 2020, 34, 9552-9562.	5.1	39
13	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.	4.8	36
14	Artificial Nacre with High Toughness Amplification Factor: Residual Stressâ€Engineering Sparks Enhanced Extrinsic Toughening Mechanisms. <i>Advanced Materials</i> , 2022, 34, e2108267.	21.0	34
15	Molecular insights into the initial formation of pyrolytic carbon upon carbon fiber surface. <i>Carbon</i> , 2019, 148, 307-316.	10.3	30
16	Superstrong Noncovalent Interface between Melamine and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17068-17078.	8.0	18
17	Micromechanical Landscape of Three-Dimensional Disordered Graphene Networks. <i>Nano Letters</i> , 2021, 21, 8401-8408.	9.1	17
18	Formation mechanism and structural characteristic of pore-networks in shale kerogen during in-situ conversion process. <i>Energy</i> , 2022, 242, 122992.	8.8	16

#	ARTICLE	IF	CITATIONS
19	Anomalous low friction of confined monolayer water with a quadrilateral structure. Journal of Chemical Physics, 2021, 154, 224508.	3.0	14
20	Enhanced Gas Recovery in Kerogen Pyrolytic Pore Network: Molecular Simulations and Theoretical Analysis. Energy & Fuels, 2021, 35, 2253-2267.	5.1	12
21	Transformation between divacancy defects induced by an energy pulse in graphene. Nanotechnology, 2016, 27, 274004.	2.6	6
22	Surface microenvironment optimization-induced robust oxygen reduction for neutral zinc-air batteries. Natural Sciences, 2021, 1, e20210005.	2.1	6
23	Effect of grain boundaries on mechanical transverse wave propagations in graphene. Journal of Applied Physics, 2017, 121, .	2.5	4
24	Unravelling the bindings between organic molecule and reduced graphene oxide in aqueous environment. Carbon, 2020, 167, 345-350.	10.3	3
25	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors (Adv. Mater. 39/2021). Advanced Materials, 2021, 33, 2170308.	21.0	0