Jun Xia

List of Publications by Year
in descending order

25 papers	1,080 citations	516710 16 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	1218 citing authors

#	Article	IF	Citations
1	Formation mechanism and structural characteristic of pore-networks in shale kerogen during in-situ conversion process. Energy, 2022, 242, 122992.	8.8	16
2	Artificial Nacre with High Toughness Amplification Factor: Residual Stressâ€Engineering Sparks Enhanced Extrinsic Toughening Mechanisms. Advanced Materials, 2022, 34, e2108267.	21.0	34
3	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic frameworkâ€“based nanochannels. Science Advances, 2022, 8, eabl5070.	10.3	48
4	Enhanced Gas Recovery in Kerogen Pyrolytic Pore Network: Molecular Simulations and Theoretical Analysis. Energy & Fuels, 2021, 35, 2253-2267.	5.1	12
5	Solidâ€“liquid phase transition induced electrocatalytic switching from hydrogen evolution to highly selective CO2 reduction. Nature Catalysis, 2021, 4, 202-211.	34.4	89
6	Anomalously low friction of confined monolayer water with a quadrilateral structure. Journal of Chemical Physics, 2021, 154, 224508.	3.0	14
7	Surface microenvironment optimizationâ€induced robust oxygen reduction for neutral zincâ€air batteries. Natural Sciences, 2021, 1, e20210005.	2.1	6
8	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors. Advanced Materials, 2021, 33, e2102724.	21.0	51
9	Micromechanical Landscape of Three-Dimensional Disordered Graphene Networks. Nano Letters, 2021, 21, 8401-8408.	9.1	17
10	Strengthening and Toughening Hierarchical Nanocellulose via Humidity-Mediated Interface. ACS Nano, 2021, 15, 1310-1320.	14.6	85
11	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
12	Multiscale gas transport behavior in heterogeneous shale matrix consisting of organic and inorganic nanopores. Journal of Natural Gas Science and Engineering, 2020, 75, 103139.	4.4	67
13	Nanoconfined Transport Characteristic of Methane in Organic Shale Nanopores: The Applicability of the Continuous Model. Energy & Fuels, 2020, 34, 9552-9562.	5.1	39
14	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nanoâ€toâ€Subnano Confined Water Clusters. Advanced Materials, 2020, 32, e2001777.	21.0	72
15	Unravelling the bindings between organic molecule and reduced graphene oxide in aqueous environment. Carbon, 2020, 167, 345-350.	10.3	3
16	Superior Biomimetic Nacreous Bulk Nanocomposites by a Multiscale Soft-Rigid Dual-Network Interfacial Design Strategy. Matter, 2019, 1, 412-427.	10.0	81
17	Optimization design on simultaneously strengthening and toughening graphene-based nacre-like materials through noncovalent interaction. Journal of the Mechanics and Physics of Solids, 2019, 133, 103706.	4.8	36
18	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electroâ€oxidation. Advanced Materials, 2019, 31, e1900528.	21.0	111

#	Article	IF	Citations
19	Superstrong Noncovalent Interface between Melamine and Graphene Oxide. ACS Applied Materials & Interfaces, 2019, 11, 17068-17078.	8.0	18
20	Dehydration impeding ionic conductance through two-dimensional angstrom-scale slits. Nanoscale, 2019, 11, 8449-8457.	5.6	40
21	Molecular insights into the initial formation of pyrolytic carbon upon carbon fiber surface. Carbon, 2019, 148, 307-316.	10.3	30
22	Biomimetic twisted plywood structural materials. National Science Review, 2018, 5, 703-714.	9.5	79
23	Effect of grain boundaries on mechanical transverse wave propagations in graphene. Journal of Applied Physics, 2017, 121, .	2.5	4
24	Grapheneâ€Piezoelectric Material Heterostructure for Harvesting Energy from Water Flow. Advanced Functional Materials, 2017, 27, 1604226.	14.9	121
25	Transformation between divacancy defects induced by an energy pulse in graphene. Nanotechnology, 2016, 27, 274004.	2.6	6