

Pei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

876
citations

567281

15
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

642
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired hierarchical porous membrane for efficient uranium extraction from seawater. <i>Nature Sustainability</i> , 2022, 5, 71-80.	23.7	112
2	Engineered Cellulose Nanofiber Membranes with Ultrathin Low-Dimensional Carbon Material Layers for Photothermal-Enhanced Osmotic Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13223-13230.	8.0	31
3	Epitaxial growth of structure-tunable ZnO/ZnS core/shell nanowire arrays using HfO ₂ as the buffer layer. <i>Nanoscale</i> , 2022, 14, 7579-7588.	5.6	5
4	Edge-Assisted Epitaxy of 2D TaSe ₂ /MoSe ₂ Metal-Semiconductor Heterostructures and Application to Schottky Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
5	A universal functionalization strategy for biomimetic nanochannel via external electric field assisted non-covalent interaction. <i>Nano Research</i> , 2021, 14, 1421-1428.	10.4	16
6	Metallic Two-Dimensional MoS ₂ Composites as High-Performance Osmotic Energy Conversion Membranes. <i>Journal of the American Chemical Society</i> , 2021, 143, 1932-1940.	13.7	133
7	Light-Induced Heat Driving Active Ion Transport Based on 2D MXene Nanofluids for Enhancing Osmotic Energy Conversion. <i>CCS Chemistry</i> , 2021, 3, 1325-1335.	7.8	48
8	Heterogeneous MXene/PS- β -P2VP Nanofluidic Membranes with Controllable Ion Transport for Osmotic Energy Conversion. <i>Advanced Functional Materials</i> , 2021, 31, 2105013.	14.9	62
9	Synergy of light and acid-base reaction in energy conversion based on cellulose nanofiber intercalated titanium carbide composite nanofluidics. <i>Energy and Environmental Science</i> , 2021, 14, 4400-4409.	30.8	53
10	Visible-light-driven Hydroamination of Alkynes over a New Type of Activated Carbon Immobilized Cu ²⁺ Photocatalyst. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1039-1044.	2.6	2
11	Tailoring A Poly(ether sulfone) Bipolar Membrane: Osmotic Energy Generator with High Power Density. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17423-17428.	13.8	47
12	Bioinspired hydrogel-based nanofluidic ionic diodes: nano-confined network tuning and ion transport regulation. <i>Chemical Communications</i> , 2020, 56, 8123-8126.	4.1	16
13	Neutralization Reaction Assisted Chemical-Potential-Driven Ion Transport through Layered Titanium Carbides Membrane for Energy Harvesting. <i>Nano Letters</i> , 2020, 20, 3593-3601.	9.1	76
14	Tailoring A Poly(ether sulfone) Bipolar Membrane: Osmotic Energy Generator with High Power Density. <i>Angewandte Chemie</i> , 2020, 132, 17576-17581.	2.0	11
15	Bioinspired nervous signal transmission system based on two-dimensional laminar nanofluidics: From electronics to ionics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16743-16748.	7.1	22
16	Epitaxial Growth of Large-Scale Orthorhombic CsPbBr ₃ Perovskite Thin Films with Anisotropic Photoresponse Property. <i>Advanced Functional Materials</i> , 2019, 29, 1904913.	14.9	55
17	Engineered PES/SPES nanochannel membrane for salinity gradient power generation. <i>Nano Energy</i> , 2019, 59, 354-362.	16.0	71
18	Light-Driven ATP Transmembrane Transport Controlled by DNA Nanomachines. <i>Journal of the American Chemical Society</i> , 2018, 140, 16048-16052.	13.7	76

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19	A universal tunable nanofluidic diode via photoresponsive host-guest interactions. NPC Asia Materials, 2018, 10, 849-857.	7.9	30