

Pei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

876
citations

567281

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794594

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20
docs citations

20
times ranked

642
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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 |
| 2 | Bioinspired hierarchical porous membrane for efficient uranium extraction from seawater. <i>Nature Sustainability</i> , 2022, 5, 71-80. | 23.7 | 112 |
| 3 | Light-Driven ATP Transmembrane Transport Controlled by DNA Nanomachines. <i>Journal of the American Chemical Society</i> , 2018, 140, 16048-16052. | 13.7 | 76 |
| 4 | 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 |
| 5 | Engineered PES/SPES nanochannel membrane for salinity gradient power generation. <i>Nano Energy</i> , 2019, 59, 354-362. | 16.0 | 71 |
| 6 | Heterogeneous MXene/PS- β -PVP Nanofluidic Membranes with Controllable Ion Transport for Osmotic Energy Conversion. <i>Advanced Functional Materials</i> , 2021, 31, 2105013. | 14.9 | 62 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | A universal tunable nanofluidic diode via photoresponsive host-guest interactions. <i>NPG Asia Materials</i> , 2018, 10, 849-857. | 7.9 | 30 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |