

# Liping Wen

## List of Publications by Year in descending order

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151  
papers

10,097  
citations

23567

58  
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39675

94  
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160  
all docs

160  
docs citations

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times ranked

5679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Superhydrophobicity from Fundamental Research to Practical Applications. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3387-3399.	13.8	611
2	Bioinspired smart asymmetric nanochannel membranes. <i>Chemical Society Reviews</i> , 2018, 47, 322-356.	38.1	372
3	A Biomimetic Potassium Responsive Nanochannel: G-Quadruplex DNA Conformational Switching in a Synthetic Nanopore. <i>Journal of the American Chemical Society</i> , 2009, 131, 7800-7805.	13.7	316
4	Ultrathin and Ion-Selective Janus Membranes for High-Performance Osmotic Energy Conversion. <i>Journal of the American Chemical Society</i> , 2017, 139, 8905-8914.	13.7	304
5	Engineered Asymmetric Heterogeneous Membrane: A Concentration-Gradient-Driven Energy Harvesting Device. <i>Journal of the American Chemical Society</i> , 2015, 137, 14765-14772.	13.7	299
6	Nanofluidics for osmotic energy conversion. <i>Nature Reviews Materials</i> , 2021, 6, 622-639.	48.7	288
7	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS <sub>2</sub> Chalcogel for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1659-1665.	13.8	268
8	High-performance silk-based hybrid membranes employed for osmotic energy conversion. <i>Nature Communications</i> , 2019, 10, 3876.	12.8	252
9	Nanofluidic Ion Transport and Energy Conversion through Ultrathin Free-Standing Polymeric Carbon Nitride Membranes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10123-10126.	13.8	197
10	Engineered Ionic Gates for Ion Conduction Based on Sodium and Potassium Activated Nanochannels. <i>Journal of the American Chemical Society</i> , 2015, 137, 11976-11983.	13.7	184
11	A Bioinspired Multifunctional Heterogeneous Membrane with Ultrahigh Ionic Rectification and Highly Efficient Selective Ionic Gating. <i>Advanced Materials</i> , 2016, 28, 144-150.	21.0	179
12	Improved osmotic energy conversion in heterogeneous membrane boosted by three-dimensional hydrogel interface. <i>Nature Communications</i> , 2020, 11, 875.	12.8	179
13	Microcontact-Printed-Assisted Access of Graphitic Carbon Nitride Films with Favorable Textures toward Photoelectrochemical Application. <i>Advanced Materials</i> , 2015, 27, 712-718.	21.0	177
14	Artificial light-driven ion pump for photoelectric energy conversion. <i>Nature Communications</i> , 2019, 10, 74.	12.8	167
15	Biomimetic Solid-State Nanochannels: From Fundamental Research to Practical Applications. <i>Small</i> , 2016, 12, 2810-2831.	10.0	150
16	A biomimetic zinc activated ion channel. <i>Chemical Communications</i> , 2010, 46, 1682.	4.1	138
17	Metallic Two-Dimensional MoS <sub>2</sub> Composites as High-Performance Osmotic Energy Conversion Membranes. <i>Journal of the American Chemical Society</i> , 2021, 143, 1932-1940.	13.7	133
18	Biomimetic Nacre-Like Silk-Crosslinked Membranes for Osmotic Energy Harvesting. <i>ACS Nano</i> , 2020, 14, 9701-9710.	14.6	124

#	ARTICLE	IF	CITATIONS
19	Enhanced ion transport by graphene oxide/cellulose nanofibers assembled membranes for high-performance osmotic energy harvesting. <i>Materials Horizons</i> , 2020, 7, 2702-2709.	12.2	118
20	Bioinspired Photoelectric Conversion Based on Smart Gating Nanochannels. <i>Advanced Functional Materials</i> , 2010, 20, 2636-2642.	14.9	113
21	Bioinspired hierarchical porous membrane for efficient uranium extraction from seawater. <i>Nature Sustainability</i> , 2022, 5, 71-80.	23.7	112
22	Enhanced Stability and Controllability of an Ionic Diode Based on Funnel-Shaped Nanochannels with an Extended Critical Region. <i>Advanced Materials</i> , 2016, 28, 3345-3350.	21.0	109
23	Chiral recognition of L-tryptophan with beta-cyclodextrin-modified biomimetic single nanochannel. <i>Chemical Communications</i> , 2015, 51, 3135-3138.	4.1	108
24	Bioinspired Smart Gating of Nanochannels Toward Photoelectric Conversion Systems. <i>Advanced Materials</i> , 2010, 22, 1021-1024.	21.0	104
25	Light-Controlled Ion Transport through Biomimetic DNA-Based Channels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15637-15641.	13.8	104
26	Light- and Electric-Field-Controlled Wetting Behavior in Nanochannels for Regulating Nanoconfined Mass Transport. <i>Journal of the American Chemical Society</i> , 2018, 140, 4552-4559.	13.7	99
27	Ultrathin and Robust Silk Fibroin Membrane for High-Performance Osmotic Energy Conversion. <i>ACS Energy Letters</i> , 2020, 5, 742-748.	17.4	98
28	A Fluoride-Driven Ionic Gate Based on a 4-Aminophenylboronic Acid-Functionalized Asymmetric Single Nanochannel. <i>ACS Nano</i> , 2014, 8, 12292-12299.	14.6	95
29	Engineering Smart Nanofluidic Systems for Artificial Ion Channels and Ion Pumps: From Single-Pore to Multichannel Membranes. <i>Advanced Materials</i> , 2020, 32, e1904351.	21.0	95
30	Free-Standing Covalent Organic Framework Membrane for High-Efficiency Salinity Gradient Energy Conversion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9925-9930.	13.8	94
31	Anion Concentration Gradient-Assisted Construction of a Solid Electrolyte Interphase for a Stable Zinc Metal Anode at High Rates. <i>Journal of the American Chemical Society</i> , 2022, 144, 11168-11177.	13.7	94
32	Bioinspired Heterogeneous Ion Pump Membranes: Unidirectional Selective Pumping and Controllable Gating Properties Stemming from Asymmetric Ionic Group Distribution. <i>Journal of the American Chemical Society</i> , 2018, 140, 1083-1090.	13.7	87
33	A biomimetic mercury(ii)-gated single nanochannel. <i>Chemical Communications</i> , 2013, 49, 10679.	4.1	86
34	A Bioinspired Switchable and Tunable Carbonate-Activated Nanofluidic Diode Based on a Single Nanochannel. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13664-13668.	13.8	85
35	Asymmetric Multifunctional Heterogeneous Membranes for pH- and Temperature-Cooperative Smart Ion Transport Modulation. <i>Advanced Materials</i> , 2016, 28, 9613-9619.	21.0	83
36	Bioinspired Ionic Diodes: From Unipolar to Bipolar. <i>Advanced Functional Materials</i> , 2018, 28, 1801079.	14.9	82

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37	Large-scale, robust mushroom-shaped nanochannel array membrane for ultrahigh osmotic energy conversion. <i>Science Advances</i> , 2021, 7, .	10.3	81
38	Engineered Nanochannel Membranes with Diode-like Behavior for Energy Conversion over a Wide pH Range. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23815-23821.	8.0	79
39	A Biomimetic Voltage-Gated Chloride Nanochannel. <i>Advanced Materials</i> , 2016, 28, 3181-3186.	21.0	77
40	A Biomimetic Multi-Stimuli-Response Ionic Gate Using a Hydroxypyrene Derivative-Functionalized Asymmetric Single Nanochannel. <i>Advanced Materials</i> , 2014, 26, 6560-6565.	21.0	76
41	Light-Driven ATP Transmembrane Transport Controlled by DNA Nanomachines. <i>Journal of the American Chemical Society</i> , 2018, 140, 16048-16052.	13.7	76
42	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
43	Malachite Green Derivative-Functionalized Single Nanochannel: Light-and-pH Dual-Driven Ionic Gating. <i>Advanced Materials</i> , 2012, 24, 6193-6198.	21.0	75
44	Photo-Driven Ion Transport for a Photodetector Based on an Asymmetric Carbon Nitride Nanotube Membrane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12574-12579.	13.8	75
45	Quantum-confined superfluid: From nature to artificial. <i>Science China Materials</i> , 2018, 61, 1027-1032.	6.3	73
46	Controllable Growth of 0D to Multidimensional Nanostructures of a Novel Porphyrin Molecule. <i>Advanced Materials</i> , 2009, 21, 1721-1725.	21.0	72
47	A Tunable Ionic Diode Based on a Biomimetic Structure-Tailorable Nanochannel. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8168-8172.	13.8	72
48	Uphill-cation transport: A bioinspired photo-driven ion pump. <i>Science Advances</i> , 2016, 2, e1600689.	10.3	71
49	Engineered PES/SPES nanochannel membrane for salinity gradient power generation. <i>Nano Energy</i> , 2019, 59, 354-362.	16.0	71
50	Improved Ion Transport and High Energy Conversion through Hydrogel Membrane with 3D Interconnected Nanopores. <i>Nano Letters</i> , 2020, 20, 5705-5713.	9.1	71
51	Bioinspired Ion Transport Properties of Solid-State Single Nanochannels and Their Applications in Sensing. <i>ChemPhysChem</i> , 2012, 13, 2455-2470.	2.1	69
52	Nacre-like Mechanically Robust Heterojunction for Lithium-Ion Extraction. <i>Matter</i> , 2021, 4, 737-754.	10.0	69
53	Asymmetric and Symmetric Dipole-Dipole Interactions Drive Distinct Aggregation and Emission Behavior of Intramolecular Charge-Transfer Molecules. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5924-5932.	3.1	68
54	High-Sensitivity Detection of Iron(III) by Dopamine-Modified Funnel-Shaped Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22632-22639.	8.0	67

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55	Two-Dimensional Nanofluidic Membranes toward Harvesting Salinity Gradient Power. <i>Accounts of Chemical Research</i> , 2021, 54, 4154-4165.	15.6	66
56	Robust sulfonated poly (ether ether ketone) nanochannels for high-performance osmotic energy conversion. <i>National Science Review</i> , 2020, 7, 1349-1359.	9.5	65
57	Electrostatic-Charge- and Electric-Field-Induced Smart Gating for Water Transportation. <i>ACS Nano</i> , 2016, 10, 9703-9709.	14.6	63
58	Heterogeneous MXene/PS- <i>b</i> -P2VP Nanofluidic Membranes with Controllable Ion Transport for Osmotic Energy Conversion. <i>Advanced Functional Materials</i> , 2021, 31, 2105013.	14.9	62
59	An Artificial CO <sub>2</sub> -Driven Ionic Gate Inspired by Olfactory Sensory Neurons in Mosquitoes. <i>Advanced Materials</i> , 2017, 29, 1603884.	21.0	61
60	Construction of biomimetic smart nanochannels for confined water. <i>National Science Review</i> , 2014, 1, 144-156.	9.5	58
61	A Bio-Inspired, Sensitive, and Selective Ionic Gate Driven by Silver (I) Ions. <i>Small</i> , 2015, 11, 543-547.	10.0	58
62	Interfacial Superassembly of Ordered Mesoporous Carbon-Silica/AO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26167-26176.	13.8	58
63	Construction of biomimetic smart nanochannels with polymer membranes and application in energy conversion systems. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4027.	2.8	53
64	Engineered Smart Gating Nanochannels for High Performance in Formaldehyde Detection and Removal. <i>Advanced Functional Materials</i> , 2019, 29, 1807953.	14.9	53
65	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
66	Ultratrace detection of glucose with enzyme-functionalized single nanochannels. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19131-19135.	10.3	52
67	Construction and application of photoresponsive smart nanochannels. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 26, 31-47.	11.6	52
68	DNAzyme tunable lead(II) gating based on ion-track etched conical nanochannels. <i>Chemical Communications</i> , 2015, 51, 5979-5981.	4.1	50
69	Biomimetic Nanofluidic Diode Composed of Dual Amphoteric Channels Maintains Rectification Direction over a Wide pH Range. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13056-13060.	13.8	50
70	Improved Ion Transport in Hydrogel-Based Nanofluidics for Osmotic Energy Conversion. <i>ACS Central Science</i> , 2020, 6, 2097-2104.	11.3	49
71	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
72	Biomimetic Nanocomposite Membranes with Ultrahigh Ion Selectivity for Osmotic Power Conversion. <i>ACS Central Science</i> , 2021, 7, 1486-1492.	11.3	48

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73	A Photoinduced, and Chemical-Driven, Smart-Gating Nanochannel. <i>Small</i> , 2012, 8, 838-842.	10.0	47
74	Skin-Inspired Low-Grade Heat Energy Harvesting Using Directed Ionic Flow through Conical Nanochannels. <i>Advanced Energy Materials</i> , 2018, 8, 1800459.	19.5	47
75	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
76	Metal organic framework enhanced SPEEK/SPSF heterogeneous membrane for ion transport and energy conversion. <i>Nano Energy</i> , 2021, 81, 105657.	16.0	47
77	Biomimetic smart nanochannels for power harvesting. <i>Nano Research</i> , 2016, 9, 59-71.	10.4	46
78	Biomimetic KcsA channels with ultra-selective K <sup>+</sup> transport for monovalent ion sieving. <i>Nature Communications</i> , 2022, 13, 1701.	12.8	46
79	Interfacial Super-Assembly of Ordered Mesoporous Silica-Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8782-8793.	8.0	44
80	Highly sensitive, selective and reusable mercury(ii) ion sensor based on a ssDNA-functionalized photonic crystal film. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11943.	2.8	43
81	Charged porous asymmetric membrane for enhancing salinity gradient energy conversion. <i>Nano Energy</i> , 2021, 79, 105509.	16.0	42
82	Biomimetic Peptide-Gated Nanoporous Membrane for On-Demand Molecule Transport. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 151-155.	13.8	41
83	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16708-16712.	13.8	40
84	Redox switch of ionic transport in conductive polypyrrole-engineered unipolar nanofluidic diodes. <i>Nano Research</i> , 2017, 10, 3715-3725.	10.4	39
85	Conversion of Light to Electricity by Photoinduced Reversible pH Changes and Biomimetic Nanofluidic Channels. <i>Advanced Functional Materials</i> , 2013, 23, 2887-2893.	14.9	37
86	Biomimetic heterogeneous multiple ion channels: a honeycomb structure composite film generated by breath figures. <i>Nanoscale</i> , 2016, 8, 12318-12323.	5.6	35
87	Nanofluidic Ion Transport and Energy Conversion through Ultrathin Free-Standing Polymeric Carbon Nitride Membranes. <i>Angewandte Chemie</i> , 2018, 130, 10280-10283.	2.0	34
88	Colloidal Synthesis of Lettuce-like Copper Sulfide for Light-Gating Heterogeneous Nanochannels. <i>ACS Nano</i> , 2016, 10, 3606-3613.	14.6	33
89	Engineered Asymmetric Composite Membranes with Rectifying Properties. <i>Advanced Materials</i> , 2016, 28, 757-763.	21.0	31
90	Sulfur covalently bonded to porous graphitic carbon as an anode material for lithium-ion capacitors with high energy storage performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 62-68.	10.3	31

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91	Surface Charge Regulated Asymmetric Ion Transport in Nanoconfined Space. <i>Small</i> , 2021, 17, e2101099.	10.0	31
92	Engineered Cellulose Nanofiber Membranes with Ultrathin Low-Dimensional Carbon Material Layers for Photothermal-Enhanced Osmotic Energy Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13223-13230.	8.0	31
93	A universal tunable nanofluidic diode via photoresponsive host-guest interactions. <i>NPG Asia Materials</i> , 2018, 10, 849-857.	7.9	30
94	Interfacial Superassembly of T <sub>1</sub> -Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. <i>Small</i> , 2021, 17, e2100141.	10.0	30
95	Ion transport regulation through triblock copolymer/PET asymmetric nanochannel membrane: Model system establishment and rectification mapping. <i>Chinese Chemical Letters</i> , 2021, 32, 822-825.	9.0	29
96	Bio-inspired multi-scale structures in dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2009, 10, 149-158.	11.6	28
97	Free-standing Covalent Organic Framework Membrane for High-efficiency Salinity Gradient Energy Conversion. <i>Angewandte Chemie</i> , 2021, 133, 10013-10018.	2.0	28
98	Adenosine-Activated Nanochannels Inspired by G-Protein-Coupled Receptors. <i>Small</i> , 2016, 12, 1854-1858.	10.0	26
99	Biomimetic Voltage-Gated Ultrasensitive Potassium-Activated Nanofluidic Based on a Solid-State Nanochannel. <i>Langmuir</i> , 2017, 33, 8463-8467.	3.5	25
100	A bio-inspired dumbbell-shaped nanochannel with a controllable structure and ionic rectification. <i>Nanoscale</i> , 2018, 10, 6850-6854.	5.6	25
101	Ionic Crosslinking-Induced Nanochannels: Nanophase Separation for Ion Transport Promotion. <i>Advanced Materials</i> , 2022, 34, e2108410.	21.0	25
102	Fabrication of Nanochannels. <i>Materials</i> , 2015, 8, 6277-6308.	2.9	24
103	Specific Recognition of Uranyl Ion Employing a Functionalized Nanochannel Platform for Dealing with Radioactive Contamination. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3854-3861.	8.0	24
104	A Pb <sup>2+</sup> ionic gate with enhanced stability and improved sensitivity based on a 4-aminobenzo-18-crown-6 modified funnel-shaped nanochannel. <i>Faraday Discussions</i> , 2018, 210, 101-111.	3.2	23
105	Programmed Death of Injured <i>Pseudomonas aeruginosa</i> on Mechano-Bactericidal Surfaces. <i>Nano Letters</i> , 2022, 22, 1129-1137.	9.1	23
106	Inversely designed micro-textures for robust Cassie-Baxter mode of super-hydrophobicity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 341, 113-132.	6.6	22
107	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
108	Polymer-based membranes for promoting osmotic energy conversion. <i>Giant</i> , 2022, 10, 100094.	5.1	21



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109	Light-Controlled Ion Transport through Biomimetic DNA-Based Channels. <i>Angewandte Chemie</i> , 2016, 128, 15866-15870.	2.0	20
110	Tunable molecular transport and sieving enabled by covalent organic framework with programmable surface charge. <i>Materials Today</i> , 2021, 51, 56-64.	14.2	19
111	Biomimetic Nanochannels: From Fabrication Principles to Theoretical Insights. <i>Small Methods</i> , 2022, 6, e2101255.	8.6	18
112	Bioinspired poly (ionic liquid) membrane for efficient salinity gradient energy harvesting: Electrostatic crosslinking induced hierarchical nanoporous network. <i>Nano Energy</i> , 2022, 97, 107170.	16.0	18
113	Fabrication and ionic transportation characterization of funnel-shaped nanochannels. <i>RSC Advances</i> , 2016, 6, 55064-55070.	3.6	17
114	Engineered Artificial Nanochannels for Nitrite Ion Harmless Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30852-30859.	8.0	17
115	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
116	Towards Practical Osmotic Energy Capture by a Layer-by-Layer Membrane. <i>Trends in Chemistry</i> , 2020, 2, 180-182.	8.5	16
117	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
118	Thermo-enhanced osmotic power generator via lithium bromide and asymmetric sulfonated poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 T	7.95	16
119	Fabrication of hydrogel-coated single conical nanochannels exhibiting controllable ion rectification characteristics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6367-6373.	2.8	15
120	Sequential Recognition of Zinc and Pyrophosphate Ions in a Terpyridine-Functionalized Single Nanochannel. <i>ChemPhysChem</i> , 2017, 18, 253-259.	2.1	15
121	Engineered Sulfonated Polyether Sulfone Nanochannel Membranes for Salinity Gradient Power Generation. <i>ACS Applied Polymer Materials</i> , 2021, 3, 485-493.	4.4	14
122	Large-Scale, Ultrastrong Cu <sup>2+</sup> Cross-Linked Sodium Alginate Membrane for Effective Salinity Gradient Power Conversion. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3902-3910.	4.4	14
123	The synergistic effect of space and surface charge on nanoconfined ion transport and nanofluidic energy harvesting. <i>Nano Energy</i> , 2022, 92, 106709.	16.0	14
124	Bio-inspired smart gating nanochannels based on polymer films. <i>Science China Chemistry</i> , 2011, 54, 1537-1546.	8.2	13
125	Biomimetic Peptide-Gated Nanoporous Membrane for On-Demand Molecule Transport. <i>Angewandte Chemie</i> , 2018, 130, 157-161.	2.0	12
126	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS <sub>x</sub> Chalcogel for Overall Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 1676-1682.	2.0	12



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127	Interfacial Superassembly of Ordered Mesoporous Carbon/Silica/AO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. <i>Angewandte Chemie</i> , 2021, 133, 26371-26380.	2.0	12
128	Electrochemical ion-pumping-assisted transfer system featuring a heterogeneous membrane for lithium recovery. <i>Chemical Engineering Journal</i> , 2022, 435, 134955.	12.7	12
129	Covalent organic frameworks embedded in polystyrene membranes for ion sieving. <i>Chemical Communications</i> , 2022, 58, 5403-5406.	4.1	12
130	Photoelectric conversion behavior based on direct interfacial charge-transfer from porphyrin derivative to silicon nanowires. <i>Applied Physics Letters</i> , 2010, 97, 253111.	3.3	11
131	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
132	Tailoring Sulfonated Poly(phenyl-alkane)s of Intrinsic Microporosity Membrane for Advanced Osmotic Energy Conversion. , 2022, 4, 1422-1429.		11
133	Photo-Driven Ion Transport for a Photodetector Based on an Asymmetric Carbon Nitride Nanotube Membrane. <i>Angewandte Chemie</i> , 2019, 131, 12704-12709.	2.0	8
134	A Tunable Ionic Diode Based on a Biomimetic Structure-Tailorable Nanochannel. <i>Angewandte Chemie</i> , 2017, 129, 8280-8284.	2.0	7
135	Wetting-Induced Water Promoted Flow on Tunable Liquid-Liquid Interface-Based Nanopore Membrane System. <i>ACS Nano</i> , 2022, 16, 11092-11101.	14.6	7
136	Aligned silicon nanowires with fine-tunable tilting angles by metal-assisted chemical etching on off-cut wafers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 655-658.	2.4	6
137	Biomimetic Nanofluidic Diode Composed of Dual Amphoteric Channels Maintains Rectification Direction over a Wide pH Range. <i>Angewandte Chemie</i> , 2016, 128, 13250-13254.	2.0	6
138	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. <i>Angewandte Chemie</i> , 2018, 130, 16950-16954.	2.0	6
139	pH-regulated thermo-driven nanofluidics for nanoconfined mass transport and energy conversion. <i>Nanoscale Advances</i> , 2020, 2, 4070-4076.	4.6	6
140	Electrokinetic Translocation of a Deformable Nanoparticle through a Nanopore. <i>ACS Applied Bio Materials</i> , 2020, 3, 5160-5168.	4.6	4
141	Ultra-Sensitive and Selective Electrochemical Biofluid Biopsy for Oral Cancer Screening. <i>Small Methods</i> , 2021, 5, e2001205.	8.6	4
142	Brush Layer Charge Characteristics of a Biomimetic Polyelectrolyte-Modified Nanoparticle Surface. <i>Langmuir</i> , 2020, 36, 15220-15229.	3.5	4
143	Electrokinetic transport of nanoparticles in functional group modified nanopores. <i>Chinese Chemical Letters</i> , 2023, 34, 107667.	9.0	4
144	Electrokinetic translocation of a deformable nanoparticle controlled by field effect in nanopores. <i>Electrophoresis</i> , 2021, 42, 2197-2205.	2.4	3

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145	The polarization reverse of diode-like conical nanopore under pH gradient. SN Applied Sciences, 2020, 2, 1.	2.9	2
146	The interaction between silica flat substrate and functional group-modified nanoparticles. Electrophoresis, 2022, 43, 1984-1992.	2.4	2
147	Cement-and-pebble nanofluidic membranes with stable acid resistance as osmotic energy generators. Science China Materials, 2022, 65, 2729-2736.	6.3	2
148	A new porphyrin sensitizer with phenolic binding group for high efficiency dye-sensitized solar cells. Materials Science-Poland, 2014, 32, 610-616.	1.0	1
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