

# Zhen Zhang

## List of Publications by Year in descending order

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144  
papers

8,079  
citations

38742

50  
h-index

54911

84  
g-index

146  
all docs

146  
docs citations

146  
times ranked

7167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Co <sub>4</sub> S <sub>3</sub> /Co <sub>9</sub> S <sub>8</sub> nanosheets and comparison study toward the OER properties induced by different metal ion doping. Chinese Chemical Letters, 2022, 33, 1395-1402.	9.0	25
2	Enhanced porphyrin-based fluorescence imaging-guided photodynamic/photothermal synergistic cancer therapy by mitochondrial targeting. Science China Materials, 2022, 65, 527-535.	6.3	12
3	Ultrasensitive detection of vitamin E by signal conversion combined with core-satellite structure-based plasmon coupling effect. Analyst, The, 2022, 147, 398-403.	3.5	3
4	Au-Decorated N-Rich Carbon Dots as Peroxidase Mimics for the Detection of Acetylcholinesterase Activity. ACS Applied Nano Materials, 2022, 5, 1958-1965.	5.0	15
5	Surface-Engineered Gold Nanoclusters for Stimulated Emission Depletion and Correlated Light and Electron Microscopy Imaging. Analytical Chemistry, 2022, 94, 3056-3064.	6.5	22
6	In situ nonlinear optical spectroscopic study of the structural chirality in DPPC Langmuir monolayers at the air/water interface. Journal of Chemical Physics, 2022, 156, 094704.	3.0	1
7	Iron regulates the interfacial charge distribution of transition metal phosphides for enhanced oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 615, 725-731.	9.4	16
8	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction. , 2022, 1, 69-76.		34
9	In Situ Probe Supramolecular Self-Assembly Dynamics and Chirality Transfer Mechanism at Air-Water Interface. Journal of Physical Chemistry Letters, 2022, 13, 3523-3528.	4.6	6
10	Confining Metal-Organic Framework in the Pore of Covalent Organic Framework: A Microscale Z-scheme System for Boosting Photocatalytic Performance. Small Methods, 2022, 6, e2200265.	8.6	18
11	Mechanism by Which Cholesterol Induces Sphingomyelin Conformational Changes at an Air/Water Interface. Journal of Physical Chemistry B, 2022, 126, 5481-5489.	2.6	3
12	Cation-selective two-dimensional polyimine membranes for high-performance osmotic energy conversion. Nature Communications, 2022, 13, .	12.8	49
13	Synergistic Effect Improves the Response of Active Sites to Target Variations for Picomolar Detection of Silver Ions. Analytical Chemistry, 2022, 94, 10462-10469.	6.5	18
14	One-Fold Anisotropy of Silver Chiral Nanoparticles Studied by Second-Harmonic Generation. ACS Sensors, 2021, 6, 454-460.	7.8	3
15	Metallic Two-Dimensional MoS <sub>2</sub> Composites as High-Performance Osmotic Energy Conversion Membranes. Journal of the American Chemical Society, 2021, 143, 1932-1940.	13.7	133
16	Synergistic effect enhances the peroxidase-like activity in platinum nanoparticle-supported metal-organic framework hybrid nanozymes for ultrasensitive detection of glucose. Nano Research, 2021, 14, 4689-4695.	10.4	57
17	Nanofluidics for osmotic energy conversion. Nature Reviews Materials, 2021, 6, 622-639.	48.7	288
18	Portable smartphone platform integrated with fluorescent test strip based on Eu <sup>3+</sup> -functionalized copper nanoclusters for on-site visual recognition of a pathogenic biomarker. Sensors and Actuators B: Chemical, 2021, 332, 129495.	7.8	26

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19	Insight into interface charge regulation through the change of the electrolyte temperature toward enhancing photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 31-39.	9.4	13
20	Tailoring the Electronic Metal-Support Interactions in Supported Atomically Dispersed Gold Catalysts for Efficient Fenton-Like Reaction. <i>Angewandte Chemie</i> , 2021, 133, 14491-14496.	2.0	15
21	Tailoring the Electronic Metal-Support Interactions in Supported Atomically Dispersed Gold Catalysts for Efficient Fenton-Like Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14370-14375.	13.8	46
22	Pt Nanoparticles Anchored on NH <sub>2</sub> -MIL-101 with Efficient Peroxidase-Like Activity for Colorimetric Detection of Dopamine. <i>Chemosensors</i> , 2021, 9, 140.	3.6	11
23	In Situ Generated Mixed Ion/Electron-Conducting Scaffold with Uniform Li Deposition for Flexible Li Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6106-6115.	5.1	11
24	A Bubble-Assisted Approach for Patterning Nanoscale Molecular Aggregates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16547-16553.	13.8	14
25	A Bubble-Assisted Approach for Patterning Nanoscale Molecular Aggregates. <i>Angewandte Chemie</i> , 2021, 133, 16683-16689.	2.0	0
26	Strategies for Improving the Catalytic Performance of 2D Covalent Organic Frameworks for Hydrogen Evolution and Oxygen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1851-1863.	3.3	12
27	Near-Infrared Small Molecule as a Specific Fluorescent Probe for Ultrasensitive Recognition of Antiparallel Human Telomere G-Quadruplexes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32743-32752.	8.0	10
28	MnO <sub>2</sub> Nanospheres Assisted by Cysteine Combined with MnO <sub>2</sub> Nanosheets as a Fluorescence Resonance Energy Transfer System for "Switch-on" Detection of Glutathione. <i>Analytical Chemistry</i> , 2021, 93, 9621-9627.	6.5	51
29	Circularly Polarized Luminescence and SHG Chiral Signals of Helical TPE Macrocycles. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3353-3359.	4.9	7
30	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. <i>Journal of the American Chemical Society</i> , 2021, 143, 16206-16216.	13.7	70
31	Thermally Activated Delayed Fluorescence Enabled by Reversed Conformational Distortion for Blue Emitters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9501-9507.	4.6	32
32	Plasmonic nanoplatform for point-of-care testing trace HCV core protein. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111488.	10.1	21
33	Simultaneous Detection of Exosomal Membrane Protein and RNA by Highly Sensitive Aptamer Assisted Multiplexed PCR. <i>ACS Applied Bio Materials</i> , 2020, 3, 2560-2567.	4.6	22
34	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 465-470.	13.8	94
35	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. <i>Angewandte Chemie</i> , 2020, 132, 473-478.	2.0	8
36	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

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37	Photorelease of Pyridines Using a Metal-Free Photoremovable Protecting Group. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18386-18389.	13.8	22
38	Photorelease of Pyridines Using a Metal-Free Photoremovable Protecting Group. <i>Angewandte Chemie</i> , 2020, 132, 18544-18547.	2.0	5
39	Encapsulation of Porphyrin-Fe/Cu Complexes into Coordination Space for Enhanced Selective Oxidative Dehydrogenation of Aromatic Hydrazides. <i>Small</i> , 2020, 16, e2004679.	10.0	9
40	Metal Ion Mediation of Interfacial Chiral Supramolecular Formation of Amphiphilic Schiff Bases Studied by In Situ Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8179-8187.	2.6	6
41	Highly Stretchable Fiber-Based Potentiometric Ion Sensors for Multichannel Real-Time Analysis of Human Sweat. <i>ACS Sensors</i> , 2020, 5, 2834-2842.	7.8	50
42	Enhancing Charge Separation through Oxygen Vacancy-Mediated Reverse Regulation Strategy Using Porphyrins as Model Molecules. <i>Small</i> , 2020, 16, e2001752.	10.0	10
43	Adsorption and Oxidation Dynamics of Disperse Orange 3 on a Polycrystalline Pt Electrode Studied by In Situ Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21625-21634.	3.1	2
44	Guanosine Assembly Enabled Gold Nanorods with Dual Thermo- and Photoswitchable Plasmonic Chiroptical Activity. <i>ACS Nano</i> , 2020, 14, 6087-6096.	14.6	35
45	Oxidation promoted osmotic energy conversion in black phosphorus membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13959-13966.	7.1	102
46	Accurate synergy effect of Ni-Sn dual active sites enhances electrocatalytic oxidation of urea for hydrogen evolution in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14680-14689.	10.3	66
47	Improved osmotic energy conversion in heterogeneous membrane boosted by three-dimensional hydrogel interface. <i>Nature Communications</i> , 2020, 11, 875.	12.8	179
48	Embedding Ultrasmall Au Clusters into the Pores of a Covalent Organic Framework for Enhanced Photostability and Photocatalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6082-6089.	13.8	181
49	Embedding Ultrasmall Au Clusters into the Pores of a Covalent Organic Framework for Enhanced Photostability and Photocatalytic Performance. <i>Angewandte Chemie</i> , 2020, 132, 6138-6145.	2.0	16
50	N-H Chirality in Folded Peptide LK <sub>7</sub> Is Governed by the C <sub>±</sub> -H Chirality. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1282-1290.	4.6	8
51	Smart Nanofluidic Systems: Engineering Smart Nanofluidic Systems for Artificial Ion Channels and Ion Pumps: From Single-Pore to Multichannel Membranes ( <i>Adv. Mater.</i> 4/2020). <i>Advanced Materials</i> , 2020, 32, 2070026.	21.0	0
52	Ultrafast Electrochemical Synthesis of Defect-Free In <sub>2</sub> Se <sub>3</sub> Flakes for Large-Area Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1907244.	21.0	75
53	Cross-Linked Surface Engineering to Improve Iron Porphyrin Catalytic Activity. <i>Small</i> , 2020, 16, e1905889.	10.0	14
54	Novel Fe-Mn-O nanosheets/wood carbon hybrid with tunable surface properties as a superior catalyst for Fenton-like oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118058.	20.2	83

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55	A Novel Charge Transfer Channel to Simultaneously Enhance Photocatalytic Water Splitting Activity and Stability of CdS. <i>Advanced Functional Materials</i> , 2019, 29, 1902992.	14.9	86
56	Mechanically strong MXene/Kevlar nanofiber composite membranes as high-performance nanofluidic osmotic power generators. <i>Nature Communications</i> , 2019, 10, 2920.	12.8	373
57	An Efficient Strategy for Boosting Photogenerated Charge Separation by Using Porphyrins as Interfacial Charge Mediators. <i>Angewandte Chemie</i> , 2019, 131, 16956-16961.	2.0	8
58	Proteasome-Independent Protein Knockdown by Small-Molecule Inhibitor for the Undruggable Lung Adenocarcinoma. <i>Journal of the American Chemical Society</i> , 2019, 141, 18492-18499.	13.7	24
59	An Efficient Strategy for Boosting Photogenerated Charge Separation by Using Porphyrins as Interfacial Charge Mediators. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16800-16805.	13.8	80
60	Carbon-Intercalated OD/2D Hybrid of Hematite Quantum Dots/Graphitic Carbon Nitride Nanosheets as Superior Catalyst for Advanced Oxidation. <i>Small</i> , 2019, 15, e1902744.	10.0	79
61	High-performance silk-based hybrid membranes employed for osmotic energy conversion. <i>Nature Communications</i> , 2019, 10, 3876.	12.8	252
62	Utilization and prospects of electrochemiluminescence for characterization, sensing, imaging and devices. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2246-2257.	5.9	41
63	Self-Assembly of Biocompatible FeSe Hollow Nanostructures and 2D CuFeSe Nanosheets with One- and Two-Photon Luminescence Properties. <i>Small</i> , 2019, 15, e1900627.	10.0	9
64	Aptamer-based fluorescence polarization assay for separation-free exosome quantification. <i>Nanoscale</i> , 2019, 11, 10106-10113.	5.6	66
65	Cooperative Action of Laser-Induced Thermal Effects and Ionic Coordination on the Order of TPPAO Porphyrin Derivatives Self-Assembled Interface Probed via Real-Time Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11798-11806.	3.1	4
66	Hydroxyl Groups on the Graphene Surfaces Facilitate Ice Nucleation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2458-2462.	4.6	24
67	J-Aggregates of zinc tetraphenylporphyrin: a new pathway to excellent electrochemiluminescence emitters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10614-10620.	2.8	18
68	Developing superior catalysts engineered by multichannel healing strategy for advanced oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 189-199.	20.2	26
69	Electrochemiluminescence Platforms Based on Small Water-Insoluble Organic Molecules for Ultrasensitive Aqueous-Phase Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5915-5919.	13.8	108
70	Electrochemiluminescence Platforms Based on Small Water-Insoluble Organic Molecules for Ultrasensitive Aqueous-Phase Detection. <i>Angewandte Chemie</i> , 2019, 131, 5976-5980.	2.0	30
71	Engineered PES/SPES nanochannel membrane for salinity gradient power generation. <i>Nano Energy</i> , 2019, 59, 354-362.	16.0	71
72	Ultrasensitive Naked-Eye Colorimetric Ratio Assay of Chromium(III) Ion in Aqueous Solution via Stimuli-Responsive Morphological Transformation of Silver Nanoflakes. <i>Analytical Chemistry</i> , 2019, 91, 4031-4038.	6.5	39

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73	Fabricated nanoplatform of Cu(II)-functionalized mimetic-peroxidase with catalytic property toward sensitive monitoring of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 684-694.	7.8	8
74	Investigation into the Oxygen-Involved Electrochemiluminescence of Porphyrins and Its Regulation by Peripheral Substituents/Central Metals. <i>Analytical Chemistry</i> , 2019, 91, 2319-2328.	6.5	45
75	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
76	Quantitative Characterization of the Membrane Dynamics of Newly Delivered TGF- $\beta^2$ Receptors by Single-Molecule Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4282-4287.	6.5	14
77	Characterization of Hepatitis C Virus Core Protein Dimerization by Atomic Force Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 4596-4602.	6.5	10
78	Biomimetic Interfacial Electron-Induced Electrochemiluminescence. <i>Analytical Chemistry</i> , 2018, 90, 5272-5279.	6.5	25
79	Bacterial capture efficiency in fluid bloodstream improved by bendable nanowires. <i>Nature Communications</i> , 2018, 9, 444.	12.8	53
80	Ultrasensitive and robust visual sensor of Cd <sup>2+</sup> ions based on the size-dependent optical properties of Au@g-CNQDs nanoparticles in mice models. <i>Biosensors and Bioelectronics</i> , 2018, 103, 87-93.	10.1	37
81	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
82	Encapsulation of Dual-Emitting Fluorescent Magnetic Nanoprobe in Metal-Organic Frameworks for Ultrasensitive Ratiometric Detection of Cu <sup>2+</sup> . <i>Chemistry - A European Journal</i> , 2018, 24, 3499-3505.	3.3	54
83	Bioinspired smart asymmetric nanochannel membranes. <i>Chemical Society Reviews</i> , 2018, 47, 322-356.	38.1	372
84	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
85	Fabrication of Supramolecular Chirality from Achiral Molecules at the Liquid/Liquid Interface Studied by Second Harmonic Generation. <i>Langmuir</i> , 2018, 34, 139-146.	3.5	8
86	Silver nanoparticles as matrix for MALDI FTICR MS profiling and imaging of diverse lipids in brain. <i>Talanta</i> , 2018, 179, 624-631.	5.5	51
87	A Microwell-Assisted Multiaptamer Immunomagnetic Platform for Capture and Genetic Analysis of Circulating Tumor Cells. <i>Advanced Healthcare Materials</i> , 2018, 7, e1801231.	7.6	28
88	Ultrasensitive Selective Colorimetric Quantification of Chromium(VI) Ions Based on Gold Amalgam Catalyst Oxidoreductase-like Activity in Water. <i>Analytical Chemistry</i> , 2018, 90, 14309-14315.	6.5	77
89	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. <i>Angewandte Chemie</i> , 2018, 130, 16950-16954.	2.0	6
90	Bacteriorhodopsin-Inspired Light-Driven Artificial Molecule Motors for Transmembrane Mass Transportation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16708-16712.	13.8	40

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91	A universal tunable nanofluidic diode via photoresponsive host-guest interactions. <i>NPG Asia Materials</i> , 2018, 10, 849-857.	7.9	30
92	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
93	Engineered Artificial Nanochannels for Nitrite Ion Harmless Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30852-30859.	8.0	17
94	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
95	Ultrasensitive Surface-Enhanced Raman Scattering Sensor of Gaseous Aldehydes as Biomarkers of Lung Cancer on Dendritic Ag Nanocrystals. <i>Analytical Chemistry</i> , 2017, 89, 1416-1420.	6.5	95
96	Sequential Recognition of Zinc and Pyrophosphate Ions in a Terpyridine-Functionalized Single Nanochannel. <i>ChemPhysChem</i> , 2017, 18, 253-259.	2.1	15
97	A Tunable Ionic Diode Based on a Biomimetic Structure-Tailorable Nanochannel. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8168-8172.	13.8	72
98	Effect of Ca <sup>2+</sup> to Sphingomyelin Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Biophysical Journal</i> , 2017, 112, 2173-2183.	0.5	32
99	A Tunable Ionic Diode Based on a Biomimetic Structure-Tailorable Nanochannel. <i>Angewandte Chemie</i> , 2017, 129, 8280-8284.	2.0	7
100	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
101	Ordered Superparticles with an Enhanced Photoelectric Effect by Sub-Nanometer Interparticle Distance. <i>Advanced Functional Materials</i> , 2017, 27, 1701982.	14.9	32
102	Understanding the Selective Detection of Fe <sup>3+</sup> Based on Graphene Quantum Dots as Fluorescent Probes: The <i>K<sub>sp</sub></i> of a Metal Hydroxide-Assisted Mechanism. <i>Analytical Chemistry</i> , 2017, 89, 12054-12058.	6.5	143
103	Redox switch of ionic transport in conductive polypyrrole-engineered unipolar nanofluidic diodes. <i>Nano Research</i> , 2017, 10, 3715-3725.	10.4	39
104	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
105	Behaviors of the Interfacial Consecutive Multistep Electron Transfer Controlled by Varied Transition Metal Ions in Porphyrin Cores. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9045-9051.	2.6	1
106	Engineered Asymmetric Composite Membranes with Rectifying Properties. <i>Advanced Materials</i> , 2016, 28, 757-763.	21.0	31
107	Adenosine-Activated Nanochannels Inspired by G-Protein-Coupled Receptors. <i>Small</i> , 2016, 12, 1854-1858.	10.0	26
108	A Biomimetic Voltage-Gated Chloride Nanochannel. <i>Advanced Materials</i> , 2016, 28, 3181-3186.	21.0	77

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109	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
110	Light-Controlled Ion Transport through Biomimetic DNA-Based Channels. <i>Angewandte Chemie</i> , 2016, 128, 15866-15870.	2.0	20
111	Spectral assignment and orientational analysis in a vibrational sum frequency generation study of DPPC monolayers at the air/water interface. <i>Journal of Chemical Physics</i> , 2016, 145, 244707.	3.0	29
112	Fabrication and ionic transportation characterization of funnel-shaped nanochannels. <i>RSC Advances</i> , 2016, 6, 55064-55070.	3.6	17
113	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
114	Direct observation of nanoparticle multiple-ring pattern formation during droplet evaporation with dark-field microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13018-13025.	2.8	18
115	Two-Photon-Induced Isomerization of Spiropyran/Merocyanine at the Air/Water Interface Probed by Second Harmonic Generation. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7859-7864.	2.5	10
116	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
117	Electrostatic-Charge- and Electric-Field-Induced Smart Gating for Water Transportation. <i>ACS Nano</i> , 2016, 10, 9703-9709.	14.6	63
118	Upconversion nano-photosensitizer targeting into mitochondria for cancer apoptosis induction and cyt c fluorescence monitoring. <i>Nano Research</i> , 2016, 9, 3257-3266.	10.4	45
119	Asymmetric Multifunctional Heterogeneous Membranes for pH- and Temperature-Cooperative Smart Ion Transport Modulation. <i>Advanced Materials</i> , 2016, 28, 9613-9619.	21.0	83
120	Dynamically Regulated Ag Nanowire Arrays for Detecting Molecular Information of Substrate-Induced Stretched Cell Growth. <i>Advanced Materials</i> , 2016, 28, 9589-9595.	21.0	38
121	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
122	Light-Controlled Ion Transport through Biomimetic DNA-Based Channels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15637-15641.	13.8	104
123	“Uphill” cation transport: A bioinspired photo-driven ion pump. <i>Science Advances</i> , 2016, 2, e1600689.	10.3	71
124	Successive Adsorption of Cations and Anions of Water-1-Butyl-3-methylimidazolium Methylsulfate Binary Mixtures at the Air-Liquid Interface Studied by Sum Frequency Generation Vibrational Spectroscopy and Surface Tension Measurements. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12032-12041.	3.1	23
125	Construction and application of photoresponsive smart nanochannels. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 26, 31-47.	11.6	52
126	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



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127	Chiral recognition of L-tryptophan with beta-cyclodextrin-modified biomimetic single nanochannel. <i>Chemical Communications</i> , 2015, 51, 3135-3138.	4.1	108
128	Positioning and joining of organic single-crystalline wires. <i>Nature Communications</i> , 2015, 6, 6737.	12.8	87
129	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
130	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
131	Surface of room temperature ionic liquid [bmim][PF6] studied by polarization- and experimental configuration-dependent sum frequency generation vibrational spectroscopy. <i>Science China Chemistry</i> , 2015, 58, 439-447.	8.2	10
132	A Bio-inspired, Sensitive, and Selective Ionic Gate Driven by Silver (I) Ions. <i>Small</i> , 2015, 11, 543-547.	10.0	58
133	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
134	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
135	Highly sensitive visual detection of copper (II) using water-soluble azide-functionalized gold nanoparticles and silver enhancement. <i>Biosensors and Bioelectronics</i> , 2014, 59, 40-44.	10.1	35
136	Specific Capture and Release of Circulating Tumor Cells Using Aptamer-Modified Nanosubstrates. <i>Advanced Materials</i> , 2013, 25, 2368-2373.	21.0	274
137	A biomimetic mercury(ii)-gated single nanochannel. <i>Chemical Communications</i> , 2013, 49, 10679.	4.1	86
138	Preparation and Characterization of Micro-Nanostructural Beads and the Super Hydrophobic Micro-Nanostructural Coating. <i>Materials Science Forum</i> , 2013, 743-744, 504-508.	0.3	0
139	Interfacial Water Structure in Langmuir Monolayer and Gibbs Layer Probed by Sum Frequency Generation Vibrational Spectroscopy. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1663-1666.	4.9	0
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