Xu Hou

List of Publications by Year
in descending order

166 papers	9,340 citations	38742 50 h-index	42399 92 g-index
173 all docs	173 docs citations	173 times ranked	7384 citing authors

#	Article	IF	Citations
1	Antibacterial evaporator based on reduced graphene oxide/polypyrrole aerogel for solar-driven desalination. Nano Research, 2023, 16, 4219-4224.	10.4	24
2	A Rigidity/Flexibility Compatible Strategy to Improve the Stability and Durability of Flexible Electrochemical Sensor Based on a Polydimethylsiloxane Membrane Supported Prussian Blue@Carbon Nanotube Array. Electroanalysis, 2022, 34, 655-658.	2.9	2
3	Hydrophilic carbon nanotube membrane enhanced interfacial evaporation for desalination. Chinese Chemical Letters, 2022, 33, 2155-2158.	9.0	33
4	Ultrahigh Energy Storage Performance of Flexible BMTâ€Based Thin Film Capacitors. Small, 2022, 18, e2106209.	10.0	30
5	Liquid Gating Meniscusâ€Shaped Deformable Magnetoelastic Membranes with Selfâ€Driven Regulation of Gas/Liquid Release. Advanced Materials, 2022, 34, e2107327.	21.0	24
6	Ultrafast Response and Programmable Locomotion of Liquid/Vapor/Light-Driven Soft Multifunctional Actuators. ACS Nano, 2022, 16, 2672-2681.	14.6	31
7	Liquid Gating Meniscusâ€Shaped Deformable Magnetoelastic Membranes with Selfâ€Driven Regulation of Gas/Liquid Release (Adv. Mater. 3/2022). Advanced Materials, 2022, 34, .	21.0	1
8	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	6
9	Roles of ethanol in coke formation and HZSM-5 deactivation during n-heptane catalytic cracking. New Journal of Chemistry, 2022, 46, 3916-3924.	2.8	4
10	Performance prediction of magnetorheological fluidâ€based liquid gating membrane by kriging machine learning method. , 2022, 1, 157-169.		17
11	Efficient oilâ€“water separation coating with robust superhydrophobicity and high transparency. Scientific Reports, 2022, 12, 2187.	3.3	14
12	Catalytic confinement effects in nanochannels: from biological synthesis to chemical engineering. Nanoscale Advances, 2022, 4, 1517-1526.	4.6	10
13	Bioinspired carbon nanotube-based materials. Materials Advances, 2022, 3, 3070-3088.	5.4	8
14	Carbon Dioxide Chemically Responsive Switchable Gas Valves with Protonationâ€Induced Liquid Gating Selfâ€Adaptive Systems. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
15	Carbon Dioxide Chemically Responsive Switchable Gas Valves with Protonationâ€Induced Liquid Gating Selfâ€Adaptive Systems. Angewandte Chemie, 2022, 134, .	2.0	0
16	Enhanced Phaseâ€Change Heat Transfer by Surface Wettability Control. ChemSusChem, 2022, 15, e202102531.	6.8	3
17	Oil-polluted water purification via the carbon-nanotubes-doped organohydrogel platform. Nano Research, 2022, 15, 5653-5662.	10.4	10
18	Host-guest liquid gating mechanism with specific recognition interface behavior for universal quantitative chemical detection. Nature Communications, 2022, 13, 1906.	12.8	22

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19	Self-powered smart patch promotes skin nerve regeneration and sensation restoration by delivering biological-electrical signals in program. Biomaterials, 2022, 283, 121413.	11.4	17
20	Energy saving thermal adaptive liquid gating system. Innovation(China), 2022, 3, 100231.	9.1	4
21	Photochemical effect driven fluid behavior control in microscale pores and channels. Chinese Chemical Letters, 2022, 33, 3650-3656.	9.0	12
22	Bioinspired Photo-Responsive Liquid Gating Membrane. Biomimetics, 2022, 7, 47.	3.3	5
23	Bioinspired interfacial design for gravity-independent fluid transport control. Giant, 2022, 10, 100100.	5.1	5
24	Analysis of n-hexane, 1-hexene, cyclohexane and cyclohexene catalytic cracking over HZSM-5 zeolites: effects of molecular structure. Reaction Chemistry and Engineering, 2022, 7, 1762-1778.	3.7	6
25	Flexible lead-free film capacitor based on BiMg0.5Ti0.5O3-SrTiO3 for high-performance energy storage. Chemical Engineering Journal, 2022, 445, 136728.	12.7	25
26	Self-Oscillating Liquid Gating Membranes with Periodic Gas Transport. Membranes, 2022, 12, 642.	3.0	2
27	Ultrahigh efficient emulsification with drag-reducing liquid gating interfacial behavior. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	11
28	The frequency-response behaviour of flexible piezoelectric devices for detecting the magnitude and loading rate of stimuli. Journal of Materials Chemistry C, 2021, 9, 584-594.	5.5	34
29	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. Journal of Materials Chemistry A, 2021, 9, 9281-9290.	10.3	27
30	Energy storage properties of bismuth ferrite based ternary relaxor ferroelectric ceramics through a viscous polymer process. Chemical Engineering Journal, 2021, 412, 127555.	12.7	111
31	Fabrication and catalytic performance of meso-ZSM-5 zeolite encapsulated ferric oxide nanoparticles for phenol hydroxylation. Frontiers of Chemical Science and Engineering, 2021, 15, 643-653.	4.4	8
32	Surfaceâ€Bound Domain Penetration and Large Wall Current. Advanced Electronic Materials, 2021, 7, 2000720.	5.1	8
33	Continuous water-water hydrogen bonding network across the rim of carbon nanotubes facilitating water transport for desalination. Nano Research, 2021, 14, 2171-2178.	10.4	40
34	Liquidâ€Based Adaptive Structural Materials. Advanced Materials, 2021, 33, e2005664.	21.0	34
35	Electrocaloric effect enhancement in compositionally graded ferroelectric thin films driven by a needle-to-vortex domain structure transition. Journal Physics D: Applied Physics, 2021, 54, 255307.	2.8	9
36	Creating polar antivortex in PbTiO3/SrTiO3 superlattice. Nature Communications, 2021, 12, 2054.	12.8	50

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37	Size-Controlled Polarization Retention and Wall Current in Lithium Niobate Single-Crystal Memories. ACS Applied Materials & Interfaces, 2021, 13, 16641-16649.	8.0	15
38	Effect of Grain Size on the Electrocaloric Properties of Polycrystalline Ferroelectrics. Physical Review Applied, 2021, 15, .	3.8	15
39	Design of Porous Membranes by Liquid Gating Technology. Accounts of Materials Research, 2021, 2, 407-419.	11.7	37
40	Phase field modeling of dielectric breakdown of ferroelectric polymers subjected to mechanical and electrical loadings. International Journal of Solids and Structures, 2021, 217-218, 123-133.	2.7	11
41	Light-responsive and corrosion-resistant gas valve with non-thermal effective liquid-gating positional flow control. Light: Science and Applications, 2021, 10, 127.	16.6	33
42	Liquid gating technology. Pure and Applied Chemistry, 2021, 93, 1353-1370.	1.9	17
43	Structure development of carbon-based solar-driven water evaporation systems. Science Bulletin, 2021, 66, 1472-1483.	9.0	118
44	In-Plane Ferroelectric Domain Wall Memory with Embedded Electrodes on LiNbO₃ Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 33291-33299.	8.0	4
45	Photothermally induced liquid gate with navigation control of the fluid transport. Fundamental Research, 2021, 1, 800-806.	3.3	13
46	Bioinspired nanofluidic iontronics. Science, 2021, 373, 628-629.	12.6	96
47	Surface Defect Engineering on Perovskite Oxides as Efficient Bifunctional Electrocatalysts for Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 42852-42860.	8.0	34
48	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. National Science Review, 2021, 8, nwaa301.	9.5	25
49	Progress in bio-inspired porous membranes. Chinese Science Bulletin, 2021, 66, 1220-1232.	0.7	1
50	A Tough Reversible Biomimetic Transparent Adhesive Tape with Pressure-Sensitive and Wet-Cleaning Properties. ACS Nano, 2021, 15, 19194-19201.	14.6	20
51	Liquidâ€Based Adaptive Structural Materials (Adv. Mater. 50/2021). Advanced Materials, 2021, 33, .	21.0	5
52	Materials Science at Xiamen University: A Special Issue Dedicated to the 100th Anniversary of Xiamen University. Advanced Materials, 2021, 33, e2102756.	21.0	1
53	Polymer hydrogel confined palladium nanoparticles as recyclable catalysts for Suzuki and Heck cross-coupling reactions. Chinese Chemical Letters, 2020, 31, 1630-1634.	9.0	10
54	Different defect morphologies in polyethylene crystal induced by surface physicochemical properties. Chinese Chemical Letters, 2020, 31, 1640-1643.	9.0	3

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55	Porosity-Tunable Structures with â€œFossilizedâ€•Bubbles. ACS Applied Polymer Materials, 2020, 2, 497-504.	4.4	0
56	Liquid gating membrane. National Science Review, 2020, 7, 9-11.	9.5	52
57	Inner Surface Design of Functional Microchannels for Microscale Flow Control. Small, 2020, 16, e1905318.	10.0	30
58	One-Step Exfoliation/Etching Method to Produce Chitosan-Stabilized Holey Graphene Nanosheets for Superior DNA Adsorption. ACS Applied Bio Materials, 2020, 3, 8542-8550.	4.6	3
59	Synthesis and assembly of extended quintulene. Nature Communications, 2020, 11, 3976.	12.8	28
60	Liquid-based porous membranes. Chemical Society Reviews, 2020, 49, 7907-7928.	38.1	89
61	Highly stretchable and reliable graphene oxide-reinforced liquid gating membranes for tunable gas/liquid transport. Microsystems and Nanoengineering, 2020, 6, 43.	7.0	24
62	Bioinspired liquid gating membrane-based catheter with anticoagulation and positionally drug release properties. Science Advances, 2020, 6, .	10.3	36
63	Anomalies of Ionic/Molecular Transport in Nano and Sub-Nano Confinement. Nano Letters, 2020, 20, 6937-6946.	9.1	112
64	Large electrostrain induced by reversible domain switching in ordered ferroelectric nanostructures with optimized geometric configurations. Nanotechnology, 2020, 31, 335714.	2.6	4
65	Dynamic and reversible electrowetting with low voltage on the dimethicone infused carbon nanotube array in air. Chinese Chemical Letters, 2020, 31, 1914-1918.	9.0	13
66	Tannic acid modified single nanopore with multivalent metal ions recognition and ultra-trace level detection. Nano Today, 2020, 33, 100868.	11.9	96
67	A simple and effective strategy to enhance the stability and solidâ€“liquid interfacial interaction of an emulsion by the interfacial dilational rheological properties. Soft Matter, 2020, 16, 5650-5658.	2.7	5
68	Building Magnetoresponsive Composite Elastomers for Bionic Locomotion Applications. Journal of Bionic Engineering, 2020, 17, 405-420.	5.0	20
69	Nonvolatile ferroelectric field-effect transistors. Nature Communications, 2020, 11, 2811.	12.8	87
70	Roles of Alkenes and Coke Formation in the Deactivation of ZSM-5 Zeolites During n-Pentane Catalytic Cracking. Catalysis Letters, 2020, 150, 2716-2725.	2.6	14
71	An efficient strategy for reliability-based multidisciplinary design optimization of twin-web disk with non-probabilistic model. Applied Mathematical Modelling, 2020, 82, 546-572.	4.2	16
72	Negative/Positive Electrocaloric Effect in Single-Layer Pb(Zrâ,“Ti_{1â€“x})Oâ,ƒ Thin Films for Solid-State Cooling Device. IEEE Transactions on Electron Devices, 2020, 67, 1769-1775.	3.0	6

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73	Fatigueâ€Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. Advanced Energy Materials, 2020, 10, 2001536.	19.5	114
74	Application of machine learning to process simulation of n-pentane cracking to produce ethylene and propene. Chinese Journal of Chemical Engineering, 2020, 28, 1832-1839.	3.5	11
75	Soft interface design for electrokinetic energy conversion. Soft Matter, 2020, 16, 2915-2927.	2.7	36
76	Metallic Liquid Gating Membranes. ACS Nano, 2020, 14, 2465-2474.	14.6	30
77	Controllable Liquid-Liquid Printing with Defect-free, Corrosion-Resistance, Unrestricted Wetting Condition. IScience, 2019, 19, 93-100.	4.1	12
78	Dynamic Curvature Nanochannelâ€Based Membrane with Anomalous Ionic Transport Behaviors and Reversible Rectification Switch. Advanced Materials, 2019, 31, e1805130.	21.0	114
79	Ultrasensitive and Selective Mercury(II) Ion Detection with a Glass Nanopore. , 2019, , .		0
80	Fine-grain induced outstanding energy storage performance in novel Bi_{0.5}K_{0.5}TiO₃â€“Ba(Mg_{1/3}Nb_{2/3})O₃ ceramics via a hot-pressing strategy. Journal of Materials Chemistry C, 2019, 7, 12127-12138.	5.5	119
81	Performance analysis of solid-state nanopore chemical sensor. Sensors and Actuators B: Chemical, 2019, 286, 315-320.	7.8	24
82	Phase-field simulations on the electrocaloric properties of ferroelectric nanocylinders with the consideration of surface polarization effect. Journal of Applied Physics, 2019, 125, .	2.5	6
83	Mobile Liquid Gating Membrane System for Smart Piston and Valve Applications. Industrial & Engineering Chemistry Research, 2019, 58, 11976-11984.	3.7	29
84	The Effect of Grain Size on Magnetoelectric Effect in Ferroelectric-Ferromagnetic Composite. , 2019, , .		0
85	Direct and indirect methods based on effective Hamilton for electrocaloric effect of BaTiO3 nanoparticle. Journal of Physics Condensed Matter, 2019, 31, 255402.	1.8	4
86	Structure-design strategy of 0â€“3 type (Bi0.32Sr0.42Na0.20)TiO3/MgO composite to boost energy storage density, efficiency and charge-discharge performance. Journal of the European Ceramic Society, 2019, 39, 2889-2898.	5.7	100
87	Two dimensional nanomaterialâ€based separation membranes. Electrophoresis, 2019, 40, 2029-2040.	2.4	47
88	Roles of the free radical and carbenium ion mechanisms in pentane cracking to produce light olefins. Journal of Analytical and Applied Pyrolysis, 2019, 138, 270-280.	5.5	39
89	Fabrication of the Hierarchical HZSM-5 Membrane with Tunable Mesoporosity for Catalytic Cracking of n-Dodecane. Catalysts, 2019, 9, 155.	3.5	15
90	Catalytic Cracking of Endothermic Fuels over Meso-HZSM-5/MCM-41 Coatings. Energy & Fuels, 2019, 33, 12696-12703.	5.1	8

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91	Synthesis and performance of pillared HZSM-5 nanosheet zeolites for n-decane catalytic cracking to produce light olefins. Applied Catalysis A: General, 2019, 572, 24-33.	4.3	43
92	Significant Enhancement of the Visible Light Photocatalytic Properties in 3D BiFeO3/Graphene Composites. Nanomaterials, 2019, 9, 65.	4.1	27
93	Visual Chemical Detection Mechanism by a Liquid Gating System with Dipoleâ€Induced Interfacial Molecular Reconfiguration. Angewandte Chemie, 2019, 131, 4007-4011.	2.0	8
94	Visual Chemical Detection Mechanism by a Liquid Gating System with Dipoleâ€Induced Interfacial Molecular Reconfiguration. Angewandte Chemie - International Edition, 2019, 58, 3967-3971.	13.8	33
95	Recent progress in bio-inspired electrospun materials. Composites Communications, 2019, 11, 12-20.	6.3	46
96	Superiority of ZrO2 surface enrichment on ZSM-5 zeolites in n-pentane catalytic cracking to produce light olefins. Microporous and Mesoporous Materials, 2019, 276, 41-51.	4.4	19
97	Dynamic air/liquid pockets for guiding microscale flow. Nature Communications, 2018, 9, 733.	12.8	51
98	Flexible Polymer Ultra-Fine Fiber with Extreme Toughness. ACS Applied Materials & Interfaces, 2018, 10, 14276-14280.	8.0	15
99	Liquid gating elastomeric porous system with dynamically controllable gas/liquid transport. Science Advances, 2018, 4, eaao6724.	10.3	96
100	Tunable Microscale Porous Systems with Dynamic Liquid Interfaces. Small, 2018, 14, e1703283.	10.0	36
101	Interface Design of Nanochannels for Energy Utilization. ACS Nano, 2018, 12, 908-911.	14.6	118
102	Development and application of bio-inspired microfluidics. International Journal of Modern Physics B, 2018, 32, 1840013.	2.0	6
103	Single-Droplet Multiplex Bioassay on a Robust and Stretchable Extreme Wetting Substrate through Vacuum-Based Droplet Manipulation. ACS Nano, 2018, 12, 932-941.	14.6	82
104	Bioinspired Universal Flexible Elastomerâ€Based Microchannels. Small, 2018, 14, e1702170.	10.0	31
105	Reaction pathways of n-pentane cracking on the fresh and regenerated Sr, Zr and La-loaded ZSM-5 zeolites. Chemical Engineering Journal, 2018, 349, 297-308.	12.7	49
106	Chemiresistive nanosensors with convex/concave structures. Nano Today, 2018, 20, 84-100.	11.9	63
107	Effect of geometric configuration on the electrocaloric properties of nanoscale ferroelectric materials. Journal of Applied Physics, 2018, 123, .	2.5	14
108	Giant negative electrocaloric effect induced by domain transition in the strained ferroelectric thin film. Journal of Physics Condensed Matter, 2018, 30, 465401.	1.8	16

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109	Microfluidic Bioprinting: Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870322.	21.0	2
110	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie - International Edition, 2018, 57, 11918-11923.	13.8	79
111	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie, 2018, 130, 12094-12099.	2.0	22
112	Advances in Multi-Scale Pores and Channels Systems. Small, 2018, 14, 1800908.	10.0	23
113	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. Advanced Materials, 2018, 30, e1706913.	21.0	199
114	Synchronized electromechanical integration recording of cardiomyocytes. Biosensors and Bioelectronics, 2018, 117, 354-365.	10.1	38
115	Fast recovery of BrÃ¸nsted acid sites lost during high-temperature calcination in HZSM-5. Microporous and Mesoporous Materials, 2017, 243, 176-185.	4.4	20
116	Ultrafast Nanofiltration through Large-Area Single-Layered Graphene Membranes. ACS Applied Materials & Interfaces, 2017, 9, 9239-9244.	8.0	54
117	SO 4 2â˜ /TiO 2 promotion on HZSM-5 for catalytic cracking of paraffin. Applied Catalysis A: General, 2017, 537, 12-23.	4.3	34
118	Synergistic effects of second metals on performance of (Co, Ag, Cu)-doped Pd/Al2O3 catalysts for 2-ethyl-anthraquinone hydrogenation. Journal of Catalysis, 2017, 347, 79-88.	6.2	51
119	Interplay between materials and microfluidics. Nature Reviews Materials, 2017, 2, .	48.7	236
120	Promotion on light olefins production through modulating the reaction pathways for n -pentane catalytic cracking over ZSM-5 based catalysts. Applied Catalysis A: General, 2017, 543, 51-60.	4.3	45
121	Bioinspired approaches for medical devices. Chinese Chemical Letters, 2017, 28, 1131-1134.	9.0	28
122	A highly stretchable and robust non-fluorinated superhydrophobic surface. Journal of Materials Chemistry A, 2017, 5, 16273-16280.	10.3	89
123	Effects of regeneration of ZSM-5 based catalysts on light olefins production in n-pentane catalytic cracking. Chemical Engineering Journal, 2017, 321, 572-583.	12.7	42
124	Catalytic Cracking of JP-10 over HZSM-5 Nanosheets. Energy & Fuels, 2017, 31, 11987-11994.	5.1	30
125	Thermoresponsive Mobile Interfaces with Switchable Wettability, Optical Properties, and Penetrability. ACS Applied Materials & Interfaces, 2017, 9, 35483-35491.	8.0	33
126	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. Nano Letters, 2017, 17, 6235-6240.	9.1	72

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127	Analysis of reaction pathways for n-pentane cracking over zeolites to produce light olefins. Chemical Engineering Journal, 2017, 307, 372-381.	12.7	68
128	Smart Gating Multiâ€Scale Pore/Channelâ€Based Membranes. Advanced Materials, 2016, 28, 7049-7064.	21.0	242
129	Smart Gating Membranes: Smart Gating Multi-Scale Pore/Channel-Based Membranes (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	21.0	3
130	Catalytic cracking of n-pentane over CLD modified HZSM-5 zeolites. RSC Advances, 2016, 6, 54580-54588.	3.6	26
131	Synthetic Asymmetricâ€Shaped Nanodevices with Symmetric pHâ€Gating Characteristics. Advanced Functional Materials, 2015, 25, 1102-1110.	14.9	83
132	Stability of Surface-Immobilized Lubricant Interfaces under Flow. Chemistry of Materials, 2015, 27, 1792-1800.	6.7	181
133	Catalytic cracking of binary hydrocarbons of n-dodecane and iso-dodecane under supercritical conditions. Journal of Analytical and Applied Pyrolysis, 2015, 113, 133-136.	5.5	14
134	Liquid-based gating mechanism with tunable multiphase selectivity and antifouling behaviour. Nature, 2015, 519, 70-73.	27.8	394
135	Copper Phosphate as a Cathode Material for Rechargeable Li Batteries and Its Electrochemical Reaction Mechanism. Chemistry of Materials, 2015, 27, 5736-5744.	6.7	32
136	Bioinspired Smart Gate-Location-Controllable Single Nanochannels: Experiment and Theoretical Simulation. ACS Nano, 2015, 9, 12264-12273.	14.6	82
137	Bio-inspired Smart Single Asymmetric Hourglass Nanochannels for Continuous Shape and Ion Transport Control. Small, 2015, 11, 786-791.	10.0	67
138	Tunable Ionic Transport Control inside a Bioâ€Inspired Constructive Biâ€Channel Nanofluidic Device. Small, 2014, 10, 793-801.	10.0	37
139	Exploiting Na₂MnPO₄F as a high-capacity and well-reversible cathode material for Na-ion batteries. RSC Advances, 2014, 4, 40985-40993.	3.6	57
140	Nanofluidic Diode Based on Branched Alumina Nanochannels with Tunable Ionic Rectification. ACS Applied Materials & Interfaces, 2013, 5, 7931-7936.	8.0	52
141	Bioinspired Artificial Single Ion Pump. Journal of the American Chemical Society, 2013, 135, 16102-16110.	13.7	254
142	Bio-inspired Asymmetric Design and Building of Biomimetic Smart Single Nanochannels. Springer Theses, 2013, , .	0.1	10
143	Asymmetric pH-Gating Symmetric Hour-Glass Shaped Single Nanochannel. Springer Theses, 2013, , 83-94.	0.1	0
144	Asymmetric Conical Shaped Single Composite Nanochannel Materials. Springer Theses, 2013, , 113-127.	0.1	0

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145	Asymmetric Temperature/pH Dual-Responsive Symmetric Hour-Glass Shaped Single Nanochannel. Springer Theses, 2013, , 95-111.	0.1	0
146	Ions Responsive Asymmetric Conical Shaped Single Nanochannel. Springer Theses, 2013, , 61-81.	0.1	0
147	Light-regulated ion transport through artificial ion channels based on TiO2 nanotubular arrays. Chemical Communications, 2012, 48, 5901.	4.1	45
148	Light and pH Cooperative Nanofluidic Diode Using a Spiropyranâ€Functionalized Single Nanochannel. Advanced Materials, 2012, 24, 2424-2428.	21.0	158
149	Building Bioâ€Inspired Artificial Functional Nanochannels: From Symmetric to Asymmetric Modification. Angewandte Chemie - International Edition, 2012, 51, 5296-5307.	13.8	228
150	Bioinspired Ionâ€Transport Properties of Solidâ€State Single Nanochannels and Their Applications in Sensing. ChemPhysChem, 2012, 13, 2455-2470.	2.1	69
151	Layer-by-layer removal of insulating few-layer mica flakes for asymmetric ultra-thin nanopore fabrication. Nano Research, 2012, 5, 99-108.	10.4	49
152	Biomimetic smart nanopores and nanochannels. Chemical Society Reviews, 2011, 40, 2385.	38.1	632
153	Tuning surface wettability through supramolecular interactions. Soft Matter, 2011, 7, 1638.	2.7	30
154	Assembly of F0F1-ATPase into solid state nanoporous membrane. Chemical Communications, 2011, 47, 3102.	4.1	21
155	Enantioselective Recognition in Biomimetic Single Artificial Nanochannels. Journal of the American Chemical Society, 2011, 133, 7644-7647.	13.7	239
156	Biomimetic ionic rectifier systems: Asymmetric modification of single nanochannels by ion sputtering technology. Journal of Electroanalytical Chemistry, 2011, 656, 231-236.	3.8	51
157	Current Rectification in Temperatureâ€Responsive Single Nanopores. ChemPhysChem, 2010, 11, 859-864.	2.1	174
158	Bioâ€inspired Photoelectric Conversion Based on Smartâ€Gating Nanochannels. Advanced Functional Materials, 2010, 20, 2636-2642.	14.9	113
159	Bioinspired Smart Gating of Nanochannels Toward Photoelectricâ€Conversion Systems. Advanced Materials, 2010, 22, 1021-1024.	21.0	104
160	A pHâ€Gating Ionic Transport Nanodevice: Asymmetric Chemical Modification of Single Nanochannels. Advanced Materials, 2010, 22, 2440-2443.	21.0	203
161	Fabrication of Stable Single Nanochannels with Controllable Ionic Rectification. Small, 2010, 6, 361-365.	10.0	97
162	A Biomimetic Asymmetric Responsive Single Nanochannel. Journal of the American Chemical Society, 2010, 132, 11736-11742.	13.7	227

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163	A biomimetic zinc activated ion channel. Chemical Communications, 2010, 46, 1682.	4.1	138
164	Learning from Nature: Building Bio-Inspired Smart Nanochannels. ACS Nano, 2009, 3, 3339-3342.	14.6	215
165	A Biomimetic Potassium Responsive Nanochannel: G-Quadruplex DNA Conformational Switching in a Synthetic Nanopore. Journal of the American Chemical Society, 2009, 131, 7800-7805.	13.7	316
166	Gating of Single Synthetic Nanopores by Proton-Driven DNA Molecular Motors. Journal of the American Chemical Society, 2008, 130, 8345-8350.	13.7	295