Lei Jiang

List of Publications by Year in Descending Order

1,262 papers	93,463 citations	146 h-index	258 g-index
1,368 ext. papers	107,848 ext. citations	12.8 avg, IF	8.78 L-index

#	Paper	IF	Citations
1262	Electrochemical ion-pumping-assisted transfer system featuring a heterogeneous membrane for lithium recovery. *Chemical Engineering Journal*, **2022**, 435, 134955	14.7	3
1261	Kinetics-Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures.. *Angewandte Chemie - International Edition*, **2022**,	16.4	4
1260	Super-assembly of freestanding graphene oxide-aramid fiber membrane with T-mode subnanochannels for sensitive ion transport.. *Analyst, The*, **2022**,	5	2
1259	Ultrasensitive Photodetectors Based on Strongly Interacted Layered-Perovskite Nanowires.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
1258	Self-assembly of Colloidal Crystals: Strategies **2022**, 109-137		
1257	Magnetic Domain Confined Printing of Programmable Organic Microcrystal Assemblies for Information Encryption.. *Advanced Materials*, **2022**, e2108279	24	3
1256	Multiscale engineered artificial tooth enamel.. *Science*, **2022**, 375, 551-556	33.3	19
1255	Electrochemical reduction of nitrate in a catalytic carbon membrane nano-reactor. *Water Research*, **2022**, 208, 117862	12.5	1
1254	The synergistic effect of space and surface charge on nanoconfined ion transport and nanofluidic energy harvesting. *Nano Energy*, **2022**, 92, 106709	17.1	1
1253	Chiral 1D perovskite microwire arrays for circularly polarized light detection. *Giant*, **2022**, 9, 100086	5.6	3
1252	Dynamically modulated gating process of nanoporous membrane at sub-2-nm speed. *Matter*, **2022**, 5, 281-290	12.7	1
1251	Enhanced photo-driven ion pump through silver nanoparticles decorated graphene oxide membranes. *Nano Research*, **2022**, 15, 612	10	1
1250	Angstrom-scale ion channels towards single-ion selectivity.. *Chemical Society Reviews*, **2022**,	58.5	11
1249	Biomimetic Nanochannels: From Fabrication Principles to Theoretical Insights.. *Small Methods*, **2022** , e2101255	12.8	3
1248	Interfacial Superassembly of Mesoporous Titania Nanopillar-Arrays/Alumina Oxide Heterochannels for Light- and pH-Responsive Smart Ion Transport.. *ACS Central Science*, **2022**, 8, 361-369	16.8	2
1247	Robust Underwater Air Layer Retention and Restoration on -Inspired Self-Grown Heterogeneous Architectures.. *ACS Nano*, **2022**,	16.7	3
1246	WET-Induced Layered Organohydrogel as Bioinspired "Sticky-Slippy Skin" for Robust Underwater Oil-Repellency.. *Advanced Materials*, **2022**, e2110408	24	2

1245	Construction of Graphene-Based "In-Paper" 3D Interdigital Microelectrodes for High Performance Metal-Free Flexible Supercapacitors.. *Small Methods*, **2022**, e2101454	12.8	0
1244	Construction of Free-Standing MOF Sheets through Electrochemical Printing on Superhydrophobic Substrates **2022**, 4, 609-617		0
1243	Biomimetic KcsA channels with ultra-selective K transport for monovalent ion sieving.. *Nature Communications*, **2022**, 13, 1701	17.4	4
1242	Reliable and Low Temperature Actuation of Water and Oil Slugs in Janus Photothermal Slippery Tube.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
1241	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic framework-based nanochannels.. *Science Advances*, **2022**, 8, eabl5070	14.3	9
1240	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation.. *Chemistry - A European Journal*, **2022**, e202200307	4.8	0
1239	Miscible organic liquid separation of superwetting membrane driven by synergistic polar/nonpolar interactions. *Matter*, **2022**, 5, 1251-1262	12.7	2
1238	Superassembly of Surface-Enriched Ru Nanoclusters from Trapping-Bonding Strategy for Efficient Hydrogen Evolution.. *ACS Nano*, **2022**,	16.7	4
1237	Bioinspired poly (ionic liquid) membrane for efficient salinity gradient energy harvesting: Electrostatic crosslinking induced hierarchical nanoporous network. *Nano Energy*, **2022**, 97, 107170	17.1	1
1236	Lead-Free Chiral 2D Double Perovskite Microwire Arrays for Circularly Polarized Light Detection. *Advanced Optical Materials*, **2022**, 10, 2102227	8.1	1
1235	Controlling Directional Liquid Transport on Dual Cylindrical Fibers with Oriented Open-Wedges. *Advanced Materials Interfaces*, **2022**, 9, 2101749	4.6	2
1234	Electrochemical On-site Switching the Directional Liquid Transport on the Conical Fiber.. *Advanced Materials*, **2022**, e2200759	24	2
1233	Deterministic Assembly of Colloidal Quantum Dots for Multifunctional Integrated Photonics.. *Advanced Materials*, **2022**, e2110695	24	
1232	Confined Assembly of Colloidal Nanorod Superstructures by Locally Controlling Free-volume Entropy in Non-equilibrium Fluids.. *Advanced Materials*, **2022**, e2202119	24	1
1231	Electric field modulated water permeation through laminar Ti3C2Tx MXene membrane. *Water Research*, **2022**, 118598	12.5	1
1230	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation.. *Chemistry - A European Journal*, **2022**, 28, e202201278	4.8	
1229	Long-Range-Ordered Assembly of Micro-/Nanostructrues at Superwetting Interfaces.. *Advanced Materials*, **2021**, e2106857	24	8
1228	Single-, Dual-, Triple, and Quad-wavelength Surface-emitting Lasing in Blue Phase Liquid Crystal.. *Advanced Materials*, **2021**, e2108330	24	5

1227	Unconventional Dual Ion Selectivity Determined by the Forward Side of a Bipolar Channel toward Ion Flux.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
1226	Ionic Crosslinking-Induced Nanochannels: Nanophase Separation for Ion Transport Promotion. *Advanced Materials*, **2021**, e2108410	24	7
1225	Photothermal slippery surface showing rapid self-repairing and exceptional anti-icing/deicing property. *Chemical Engineering Journal*, **2021**, 431, 133411	14.7	5
1224	Eco-friendly perforated kelp membrane with high strength for efficient oil/water separation in a complex environment. *Separation and Purification Technology*, **2021**, 120114	8.3	3
1223	Recent progress in PNIPAM-based multi-responsive actuators: A mini-review. *Chemical Engineering Journal*, **2021**, 433, 133496	14.7	5
1222	Tunning Intermolecular Interaction of Peptide-Conjugated AIEgen in Nano-Confined Space for Quantitative Detection of Tumor Marker Secreted from Cells. *Analytical Chemistry*, **2021**, 93, 16257-16263	7.8	3
1221	Liquid-Assisted Single-Layer Janus Membrane for Efficient Unidirectional Liquid Penetration. *Advanced Science*, **2021**, e2103765	13.6	3
1220	Stretch-Enhanced Anisotropic Wetting on Transparent Elastomer Film for Controlled Liquid Transport. *ACS Nano*, **2021**,	16.7	3
1219	Controlled Assembly of Conjugated Ladder Molecules with Different Bridging Structures toward Optoelectronic Application. *ACS Applied Materials & Interfaces*, **2021**, 13, 50197-50205	9.5	0
1218	Interfacial Super-Assembly of Ordered Mesoporous Carbon-Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. *Angewandte Chemie - International Edition*, **2021**, 60, 26167-26176	16.4	15
1217	Rational ion transport management mediated through membrane structures. *Exploration*, **2021**, 1, 20210101		9
1216	Two-Dimensional Nanofluidic Membranes toward Harvesting Salinity Gradient Power. *Accounts of Chemical Research*, **2021**, 54, 4154-4165	24.3	8
1215	Titanium Dioxide Derived Materials with Superwettability. *Catalysts*, **2021**, 11, 425	4	2
1214	Free-Standing Covalent Organic Framework Membrane for High-Efficiency Salinity Gradient Energy Conversion. *Angewandte Chemie*, **2021**, 133, 10013-10018	3.6	10
1213	Harnessing Ionic Power from Equilibrium Electrolyte Solution via Photoinduced Active Ion Transport through van-der-Waals-Like Heterostructures. *Advanced Materials*, **2021**, 33, e2007529	24	5
1212	Inkless Rewritable Photonic Crystals Paper Enabled by a Light-Driven Azobenzene Mesogen Switch. *ACS Applied Materials & Interfaces*, **2021**, 13, 12383-12392	9.5	10
1211	Aggregation-Induced Emission Molecule Microwire-Based Specific Organic Vapor Detector through Structural Modification. *ACS Applied Materials & Interfaces*, **2021**, 13, 12501-12508	9.5	3
1210	Over 14% Efficiency Single-Junction Organic Solar Cells Enabled by Reasonable Conformation Modulating in Naphtho[2,3-b:6,7-b?]difuran Based Polymer. *Advanced Energy Materials*, **2021**, 11, 2003954	21.8	13

1209	A Spider-Silk-Inspired Wet Adhesive with Supercold Tolerance. *Advanced Materials*, **2021**, 33, e2007301	24	24
1208	Ionic Transport and Robust Switching Properties of the Confined Self-Assembled Block Copolymer/Homopolymer in Asymmetric Nanochannels. *ACS Applied Materials & Interfaces*, **2021**, 13, 14507-14517	9.5	4
1207	A shape memory porous sponge with tunability in both surface wettability and pore size for smart molecule release. *Science China Materials*, **2021**, 64, 2337-2347	7.1	3
1206	Interfacial Super-Assembly of T-Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. *Small*, **2021**, 17, e2100141	11	8
1205	Free-Standing Covalent Organic Framework Membrane for High-Efficiency Salinity Gradient Energy Conversion. *Angewandte Chemie - International Edition*, **2021**, 60, 9925-9930	16.4	28
1204	Manipulating Dispersions of Magnetic Nanoparticles. *Nano Letters*, **2021**, 21, 2699-2708	11.5	6
1203	Microchannel and Nanofiber Array Morphology Enhanced Rapid Superspreading on Animals' Corneas. *Advanced Materials*, **2021**, 33, e2007152	24	8
1202	Super-spreading on superamphiphilic micro-organized nanochannel anodic aluminum oxide surfaces for heat dissipation. *IScience*, **2021**, 24, 102334	6.1	8
1201	Enhanced Organic Photocatalysis in Confined Flow through a Carbon Nitride Nanotube Membrane with Conversions in the Millisecond Regime. *ACS Nano*, **2021**, 15, 6551-6561	16.7	13
1200	Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. *Journal of the American Chemical Society*, **2021**, 143, 6922-6932	16.4	15
1199	Nanofluidics for osmotic energy conversion. *Nature Reviews Materials*, **2021**, 6, 622-639	73.3	57
1198	Nano/submicrometer-emulsion oily wastewater treatment inspired by plant transpiration. *Matter*, **2021**, 4, 1274-1286	12.7	19
1197	Spontaneous Directional Self-Cleaning on the Feathers of the Aquatic Bird Anser cygnoides domesticus Induced by a Transient Superhydrophilicity. *Advanced Functional Materials*, **2021**, 31, 2010634	15.6	5
1196	Scalable Single-Crystalline Organic 1D Arrays for Image Sensor. *Small*, **2021**, 17, e2100332	11	6
1195	Light-Induced Heat Driving Active Ion Transport Based on 2D MXene Nanofluids for Enhancing Osmotic Energy Conversion. *CCS Chemistry*, **2021**, 3, 1325-1335	7.2	11
1194	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. *Angewandte Chemie - International Edition*, **2021**, 60, 14307-14312	16.4	22
1193	Superamphiphilic TiO Composite Surface for Protein Antifouling. *Advanced Materials*, **2021**, 33, e2003559	24	11
1192	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. *Angewandte Chemie*, **2021**, 133, 14428-14433	3.6	1

1191	Large-scale, robust mushroom-shaped nanochannel array membrane for ultrahigh osmotic energy conversion. *Science Advances*, **2021**, 7,	14.3	12
1190	Chiral 2D-Perovskite Nanowires for Stokes Photodetectors. *Journal of the American Chemical Society*, **2021**, 143, 8437-8445	16.4	29
1189	The macroscopic quantum state of ion channels: A carrier of neural information. *Science China Materials*, **2021**, 64, 2572-2579	7.1	4
1188	Titelbild: Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami (Angew. Chem. 26/2021). *Angewandte Chemie*, **2021**, 133, 14317-14317	3.6	
1187	Fluorinated Metal-Organic Coatings with Selective Wettability. *Journal of the American Chemical Society*, **2021**, 143, 9972-9981	16.4	7
1186	Integrated Bundle Electrode with Wettability-Gradient Copper Cones Inducing Continuous Generation, Directional Transport, and Efficient Collection of H Bubbles. *ACS Applied Materials & Interfaces*, **2021**, 13, 32435-32441	9.5	9
1185	Abnormal Properties of Low-Dimensional Confined Water. *Small*, **2021**, 17, e2100788	11	9
1184	Diffusionless transformation of soft cubic superstructure from amorphous to simple cubic and body-centered cubic phases. *Nature Communications*, **2021**, 12, 3477	17.4	9
1183	Long-Term Super-Amphiphilic Shaped-Fiber with Multi-Scale Grooved Structures: Toward Spontaneous Self-Cleaning. *Advanced Functional Materials*, **2021**, 31, 2102877	15.6	3
1182	Surface Charge Regulated Asymmetric Ion Transport in Nanoconfined Space. *Small*, **2021**, 17, e2101099	11	6
1181	Biocompatible Materials: Microchannel and Nanofiber Array Morphology Enhanced Rapid Superspreading on Animals□Corneas (Adv. Mater. 23/2021). *Advanced Materials*, **2021**, 33, 2170180	24	
1180	Unidirectional ion transport in nanoporous carbon membranes with a hierarchical pore architecture. *Nature Communications*, **2021**, 12, 4650	17.4	5
1179	Superhydrophobic-Substrate-Assisted Construction of Free-Standing Microcavity-Patterned Conducting Polymer Films. *Advanced Science*, **2021**, 8, e2100949	13.6	6
1178	Thermoenhanced osmotic power generator via lithium bromide and asymmetric sulfonated poly(ether ether ketone)/poly(ether sulfone) nanofluidic membrane. *NPG Asia Materials*, **2021**, 13,	10.3	7
1177	Hydrophobic ionic liquid tuning hydrophobic carbon to superamphiphilicity for reducing diffusion resistance in liquid-liquid catalysis systems. *CheM*, **2021**, 7, 1852-1869	16.2	5
1176	Ion transport regulation through triblock copolymer/PET asymmetric nanochannel membrane: Model system establishment and rectification mapping. *Chinese Chemical Letters*, **2021**, 32, 822-825	8.1	16
1175	Demonstration of biophoton-driven DNA replication via gold nanoparticle-distance modulated yield oscillation. *Nano Research*, **2021**, 14, 40-45	10	13
1174	Bio-based hydroxymethylated eugenol modified bismaleimide resin and its high-temperature composites. *Journal of Applied Polymer Science*, **2021**, 138, 49631	2.9	7

1173	Decoupling hydrogen production from water oxidation by integrating a triphase interfacial bioelectrochemical cascade reaction. *Science Bulletin*, **2021**, 66, 164-169	10.6	4
1172	Crystal face dependent intrinsic wettability of metal oxide surfaces. *National Science Review*, **2021**, 8, nwaa166	10.8	14
1171	Euryhaline Hydrogel with Constant Swelling and Salinity-Enhanced Mechanical Strength in a Wide Salinity Range. *Advanced Functional Materials*, **2021**, 31, 2007664	15.6	14
1170	Superwetting Shape Memory Microstructure: Smart Wetting Control and Practical Application. *Advanced Materials*, **2021**, 33, e2001718	24	38
1169	Anti-vapor-penetration and condensate microdrop self-transport of superhydrophobic oblique nanowire surface under high subcooling. *Nano Research*, **2021**, 14, 1429-1434	10	12
1168	A universal functionalization strategy for biomimetic nanochannel via external electric field assisted non-covalent interaction. *Nano Research*, **2021**, 14, 1421-1428	10	9
1167	Control the Entire Journey of Pesticide Application on Superhydrophobic Plant Surface by Dynamic Covalent Trimeric Surfactant Coacervation. *Advanced Functional Materials*, **2021**, 31, 2006606	15.6	25
1166	Metal organic framework enhanced SPEEK/SPSF heterogeneous membrane for ion transport and energy conversion. *Nano Energy*, **2021**, 81, 105657	17.1	7
1165	Engineered Sulfonated Polyether Sulfone Nanochannel Membranes for Salinity Gradient Power Generation. *ACS Applied Polymer Materials*, **2021**, 3, 485-493	4.3	6
1164	Ultraselective Monovalent Metal Ion Conduction in a Three-Dimensional Sub-1 nm Nanofluidic Device Constructed by Metal-Organic Frameworks. *ACS Nano*, **2021**, 15, 1240-1249	16.7	13
1163	Enhancement of interfacial catalysis in a triphase reactor using oxygen nanocarriers. *Nano Research* , **2021**, 14, 172-176	10	6
1162	Light-driven directional ion transport for enhanced osmotic energy harvesting. *National Science Review*, **2021**, 8, nwaa231	10.8	6
1161	Bioinspired Surface with Superwettability for Controllable Liquid Dynamics. *Advanced Materials Interfaces*, **2021**, 8, 2000824	4.6	12
1160	Asymmetric and hierarchical porous carbon membranes prepared by a single-step soft-templated method. *Chemical Engineering Communications*, **2021**, 208, 166-170	2.2	
1159	Interfacial-Potential-Gradient Induced a Significant Enhancement of Photoelectric Conversion: Thiophene Polyelectrolyte (PTE-BS) and Bipyridine Ruthenium (N3) Cooperative Regulated Biomimetic Nanochannels. *Advanced Energy Materials*, **2021**, 11, 2003340	21.8	3
1158	Biomimetic caged platinum catalyst for hydrosilylation reaction with high site selectivity. *Nature Communications*, **2021**, 12, 64	17.4	7
1157	Solution processed 1D polymer/SWCNT composite arrays for high-performance field effect transistors. *Journal of Materials Chemistry C*, **2021**, 9, 6597-6604	7.1	
1156	Metallic Two-Dimensional MoS Composites as High-Performance Osmotic Energy Conversion Membranes. *Journal of the American Chemical Society*, **2021**, 143, 1932-1940	16.4	39

1155	Modulation of solid surface with desirable under-liquid wettability based on molecular hydrophilic-lipophilic balance. *Chemical Science*, **2021**, 12, 6136-6142	9.4	4
1154	Photothermal slippery surfaces towards spatial droplet manipulation. *Journal of Materials Chemistry A*, **2021**, 9, 16974-16981	13	5
1153	Bioinspired Cavity Regulation on Superhydrophobic Spheres for Drag Reduction in an Aqueous Medium. *ACS Applied Materials & Interfaces*, **2021**, 13, 4796-4803	9.5	10
1152	Multi-solvent large stopband monitoring based on the insolubility/superoleophilicity of PEDOT inverse opals. *Nanoscale Advances*, **2021**, 3, 4519-4527	5.1	1
1151	Underwater Gas Manipulation: Designing Flexible but Tough Slippery Track for Underwater Gas Manipulation (Small 8/2021). *Small*, **2021**, 17, 2170035	11	
1150	High-strength scalable graphene sheets by freezing stretch-induced alignment. *Nature Materials*, **2021**, 20, 624-631	27	42
1149	Dual-responsive shape memory polymer arrays with smart and precise multiple-wetting controllability. *Science China Materials*, **2021**, 64, 1801-1812	7.1	6
1148	Interfacial Super-Assembly of Ordered Mesoporous Silica-Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. *ACS Applied Materials & Interfaces* , **2021**, 13, 8782-8793	9.5	16
1147	Bioinspired Two-Dimensional Structure with Asymmetric Wettability Barriers for Unidirectional and Long-Distance Gas Bubble Delivery Underwater. *Nano Letters*, **2021**, 21, 2117-2123	11.5	20
1146	Nacre-like Mechanically Robust Heterojunction for Lithium-Ion Extraction. *Matter*, **2021**, 4, 737-754	12.7	24
1145	The quantized chemical reaction resonantly driven by multiple MIR-photons: From nature to the artificial. *Nano Research*, **2021**, 14, 4367	10	4
1144	Large-Scale, Ultrastrong Cu2+ Cross-Linked Sodium Alginate Membrane for Effective Salinity Gradient Power Conversion. *ACS Applied Polymer Materials*, **2021**, 3, 3902-3910	4.3	6
1143	Stiff and tough PDMS-MMT layered nanocomposites visualized by AIE luminogens. *Nature Communications*, **2021**, 12, 4539	17.4	17
1142	Driving Force of Molecular/Ionic Superfluid Formation. *CCS Chemistry*, **2021**, 3, 1258-1266	7.2	4
1141	Direct-Writing Large-Area Cross-Aligned Ag Nanowires Network: Toward High-Performance Transparent Quantum Dot Light-Emitting Diodes. *CCS Chemistry*, **2021**, 3, 2194-2202	7.2	4
1140	Solar-driven high-efficiency remediation of wastewater containing small dye molecules. *Science China Technological Sciences*, **2021**, 64, 2237	3.5	2
1139	Abnormal Properties of Low-Dimensional Confined Water (Small 31/2021). *Small*, **2021**, 17, 2170163	11	1
1138	Anti-Swelling Gradient Polyelectrolyte Hydrogel Membranes as High-Performance Osmotic Energy Generators. *Angewandte Chemie*, **2021**, 133, 20456-20462	3.6	1

1137	Bioinspired Universal Approaches for Cavity Regulation during Cylinder Impact Processes for Drag Reduction in Aqueous Media: Macrogeometry Vanquishing Wettability. *ACS Applied Materials & Interfaces*, **2021**, 13, 38808-38815	9.5	1
1136	Optical and electrical modulation in ultraviolet photodetectors based on organic one-dimensional photochromic arrays. *SmartMat*, **2021**, 2, 388-397	22.8	7
1135	Biomimetic Nanocomposite Membranes with Ultrahigh Ion Selectivity for Osmotic Power Conversion. *ACS Central Science*, **2021**, 7, 1486-1492	16.8	13
1134	Layered Metal-Halide Perovskite Single-Crystalline Microwire Arrays for Anisotropic Nonlinear Optics. *Advanced Functional Materials*, **2021**, 31, 2105855	15.6	3
1133	Rewritable PEDOT Film Based on Water-Writing and Electroerasing. *ACS Applied Materials & Interfaces*, **2021**, 13, 41220-41230	9.5	5
1132	Anti-Swelling Gradient Polyelectrolyte Hydrogel Membranes as High-Performance Osmotic Energy Generators. *Angewandte Chemie - International Edition*, **2021**, 60, 20294-20300	16.4	15
1131	Flexible Hard Coatings with Self-Evolution Behavior in a Low Earth Orbit Environment. *ACS Applied Materials & Interfaces*, **2021**, 13, 46003-46014	9.5	1
1130	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. *Journal of the American Chemical Society*, **2021**, 143, 16206-16216	16.4	14
1129	Superhydrophobic coating modified nozzles for energy-saving rapid micro-mixing. *Chemical Engineering Journal*, **2021**, 419, 129766	14.7	1
1128	Marine antifouling coatings with surface topographies triggered by phase segregation. *Journal of Colloid and Interface Science*, **2021**, 598, 104-112	9.3	7
1127	Highly Efficient Multiscale Fog Collector Inspired by Sarracenia Trichome Hierarchical Structure.. *Global Challenges*, **2021**, 5, 2100087	4.3	3
1126	High-strength scalable MXene films through bridging-induced densification. *Science*, **2021**, 374, 96-99	33.3	64
1125	Preparation of intrinsic flexible conductive PEDOT:PSS@ionogel composite film and its application for touch panel. *Chemical Engineering Journal*, **2021**, 425, 131542	14.7	4
1124	Designing Flexible but Tough Slippery Track for Underwater Gas Manipulation. *Small*, **2021**, 17, e2007803	11	13
1123	Hierarchical Interface Engineering for Advanced Nanocellulosic Hybrid Aerogels with High Compressibility and Multifunctionality. *Advanced Functional Materials*, **2021**, 31, 2009349	15.6	28
1122	Research Progress of Bioinspired Photonic Crystal Fibers. *Acta Chimica Sinica*, **2021**, 79, 414	3.3	
1121	The Meniscus-assisted-coating with Optimized Active Layer Morphology towards Highly Efficient All-polymer Solar Cells.. *Advanced Materials*, **2021**, e2108508	24	4
1120	Wafer-scale integration of stretchable semiconducting polymer microstructures via capillary gradient. *Nature Communications*, **2021**, 12, 7038	17.4	4

1119	Photoresponsive Styrylpyrene-Modified MOFs for Gated Loading and Release of Cargo Molecules. *Chemistry of Materials*, **2020**, 32, 10621-10627	9.6	7
1118	A fast adaptive gating system based on the reconfigurable morphology of liquid metal via an electric field on porous surfaces. *Journal of Materials Chemistry A*, **2020**, 8, 24184-24191	13	3
1117	Metal□Organic Framework Membrane Nanopores as Biomimetic Photoresponsive Ion Channels and Photodriven Ion Pumps. *Angewandte Chemie*, **2020**, 132, 12895-12899	3.6	4
1116	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nano-to-Subnano Confined Water Clusters. *Advanced Materials*, **2020**, 32, e2001777	24	32
1115	Hydrophilic/Hydrophobic Heterogeneity Anti-Biofouling Hydrogels with Well-Regulated Rehydration. *ACS Applied Materials & Interfaces*, **2020**, 12, 25316-25323	9.5	25
1114	Regulating Droplet Dynamic Wetting Behaviors Using Surfactant Additives on High-Temperature Surfaces. *Advanced Materials Interfaces*, **2020**, 7, 2000501	4.6	3
1113	Highly Flexible Monolayered Porous Membrane with Superhydrophilicity-Hydrophilicity for Unidirectional Liquid Penetration. *ACS Nano*, **2020**, 14, 7287-7296	16.7	44
1112	Effect of Anion Species on Ion Current Rectification Properties of Positively Charged Nanochannels. *ACS Applied Materials & Interfaces*, **2020**, 12, 28915-28922	9.5	11
1111	Laterally Heterogeneous 2D Layered Materials as an Artificial Light-Harvesting Proton Pump. *Advanced Functional Materials*, **2020**, 30, 2001549	15.6	6
1110	High Performance Bubble Manipulation on Ferrofluid-Infused Laser-Ablated Microstructured Surfaces. *Nano Letters*, **2020**, 20, 5513-5521	11.5	32
1109	Efficient wettability-controlled electroreduction of CO to CO at Au/C interfaces. *Nature Communications*, **2020**, 11, 3028	17.4	119
1108	Photoassisted salt-concentration-biased electricity generation using cation-selective porphyrin-based nanochannels membrane. *Nano Energy*, **2020**, 76, 105086	17.1	11
1107	Tailoring A Poly(ether sulfone) Bipolar Membrane: Osmotic-Energy Generator with High Power Density. *Angewandte Chemie - International Edition*, **2020**, 59, 17423-17428	16.4	24
1106	Bioinspired hydrogel-based nanofluidic ionic diodes: nano-confined network tuning and ion transport regulation. *Chemical Communications*, **2020**, 56, 8123-8126	5.8	7
1105	Bioinspired Ionic Sensory Systems: The Successor of Electronics. *Advanced Materials*, **2020**, 32, e2000218	24	35
1104	Ultrathin 2D Graphitic Carbon Nitride on Metal Films: Underpotential Sodium Deposition in Adlayers for Sodium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 9067-9073	16.4	37
1103	Ultrafast Self-Propelled Directional Liquid Transport on the Pyramid-Structured Fibers with Concave Curved Surfaces. *Journal of the American Chemical Society*, **2020**, 142, 6111-6116	16.4	23
1102	Efficient metal ion sieving in rectifying subnanochannels enabled by metal-organic frameworks. *Nature Materials*, **2020**, 19, 767-774	27	120

1101	Integration of Metal Single Atoms on Hierarchical Porous Nitrogen-Doped Carbon for Highly Efficient Hydrogenation of Large-Sized Molecules in the Pharmaceutical Industry. *ACS Applied Materials & Interfaces*, **2020**, 12, 17651-17658	9.5	17
1100	Neutralization Reaction Assisted Chemical-Potential-Driven Ion Transport through Layered Titanium Carbides Membrane for Energy Harvesting. *Nano Letters*, **2020**, 20, 3593-3601	11.5	33
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