Lei Jiang

List of Publications by Citations

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	Biophysics: water-repellent legs of water striders. *Nature*, **2004**, 432, 36	50.4	1973
1261	Bioinspired surfaces with special wettability. *Accounts of Chemical Research*, **2005**, 38, 644-52	24.3	1750
1260	Petal effect: a superhydrophobic state with high adhesive force. *Langmuir*, **2008**, 24, 4114-9	4	1416
1259	Directional water collection on wetted spider silk. *Nature*, **2010**, 463, 640-3	50.4	1324
1258	A novel superhydrophilic and underwater superoleophobic hydrogel-coated mesh for oil/water separation. *Advanced Materials*, **2011**, 23, 4270-3	24	1283
1257	A super-hydrophobic and super-oleophilic coating mesh film for the separation of oil and water. *Angewandte Chemie - International Edition*, **2004**, 43, 2012-4	16.4	1232
1256	Reversible super-hydrophobicity to super-hydrophilicity transition of aligned ZnO nanorod films. *Journal of the American Chemical Society*, **2004**, 126, 62-3	16.4	1043
1255	Bioinspired Surfaces with Superwettability: New Insight on Theory, Design, and Applications. *Chemical Reviews*, **2015**, 115, 8230-93	68.1	1006
1254	Reversible switching between superhydrophilicity and superhydrophobicity. *Angewandte Chemie - International Edition*, **2004**, 43, 357-60	16.4	948
1253	Bioinspired Design of a Superoleophobic and Low Adhesive Water/Solid Interface. *Advanced Materials*, **2009**, 21, 665-669	24	938
1252	Special wettable materials for oil/water separation. *Journal of Materials Chemistry A*, **2014**, 2, 2445-2460	13	880
1251	Directional adhesion of superhydrophobic butterfly wings. *Soft Matter*, **2007**, 3, 178-182	3.6	870
1250	Superhydrophobic and superoleophilic PVDF membranes for effective separation of water-in-oil emulsions with high flux. *Advanced Materials*, **2013**, 25, 2071-6	24	869
1249	Applications of bio-inspired special wettable surfaces. *Advanced Materials*, **2011**, 23, 719-34	24	867
1248	Bio-Inspired, Smart, Multiscale Interfacial Materials. *Advanced Materials*, **2008**, 20, 2842-2858	24	847
1247	Recent developments in bio-inspired special wettability. *Chemical Society Reviews*, **2010**, 39, 3240-55	58.5	823
1246	A multi-structural and multi-functional integrated fog collection system in cactus. *Nature Communications*, **2012**, 3, 1247	17.4	822

1245	Nature-inspired superwettability systems. *Nature Reviews Materials*, **2017**, 2,	73.3	802
1244	A lotus-leaf-like superhydrophobic surface: a porous microsphere/nanofiber composite film prepared by electrohydrodynamics. *Angewandte Chemie - International Edition*, **2004**, 43, 4338-41	16.4	776
1243	Bioinspired Interfaces with Superwettability: From Materials to Chemistry. *Journal of the American Chemical Society*, **2016**, 138, 1727-48	16.4	720
1242	Nanowire-haired inorganic membranes with superhydrophilicity and underwater ultralow adhesive superoleophobicity for high-efficiency oil/water separation. *Advanced Materials*, **2013**, 25, 4192-8	24	689
1241	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. *Nature Communications*, **2014**, 5, 3813	17.4	630
1240	Bio-inspired strategies for anti-icing. *ACS Nano*, **2014**, 8, 3152-69	16.7	615
1239	Ultrahigh hydrogen evolution performance of under-water "superaerophobic" MoS□ nanostructured electrodes. *Advanced Materials*, **2014**, 26, 2683-7, 2615	24	604
1238	Salt-induced fabrication of superhydrophilic and underwater superoleophobic PAA-g-PVDF membranes for effective separation of oil-in-water emulsions. *Angewandte Chemie - International Edition*, **2014**, 53, 856-60	16.4	588
1237	Super-hydrophobic surface of aligned polyacrylonitrile nanofibers. *Angewandte Chemie - International Edition*, **2002**, 41, 1221-3	16.4	584
1236	Continuous directional water transport on the peristome surface of Nepenthes alata. *Nature*, **2016**, 532, 85-9	50.4	580
1235	Biomimetic smart nanopores and nanochannels. *Chemical Society Reviews*, **2011**, 40, 2385-401	58.5	554
1234	Bioinspired super-wettability from fundamental research to practical applications. *Angewandte Chemie - International Edition*, **2015**, 54, 3387-99	16.4	520
1233	Bioinspired super-antiwetting interfaces with special liquid-solid adhesion. *Accounts of Chemical Research*, **2010**, 43, 368-77	24.3	517
1232	An intelligent superwetting PVDF membrane showing switchable transport performance for oil/water separation. *Advanced Materials*, **2014**, 26, 2943-8	24	509
1231	Recent progress in developing advanced membranes for emulsified oil/water separation. *NPG Asia Materials*, **2014**, 6, e101-e101	10.3	479
1230	Ultrafast separation of emulsified oil/water mixtures by ultrathin free-standing single-walled carbon nanotube network films. *Advanced Materials*, **2013**, 25, 2422-7	24	453
1229	Bioinspired Multifunctional Foam with Self-Cleaning and Oil/Water Separation. *Advanced Functional Materials*, **2013**, 23, 2881-2886	15.6	440
1228	Bio-inspired superoleophobic and smart materials: Design, fabrication, and application. *Progress in Materials Science*, **2013**, 58, 503-564	42.2	439

1227	Reversible wettability of a chemical vapor deposition prepared ZnO film between superhydrophobicity and superhydrophilicity. *Langmuir*, **2004**, 20, 5659-61	4	421
1226	Bio-inspired titanium dioxide materials with special wettability and their applications. *Chemical Reviews*, **2014**, 114, 10044-94	68.1	415
1225	Super-"Amphiphobic" Aligned Carbon Nanotube Films The authors thank the Special Research Foundation of the National Nature Science Foundation of China (29992530, 69890228), the State Key Project Fundamental Research (G1999064504), and the Chinese Academy of Sciences for continuing financial support.. *Angewandte Chemie - International Edition*, **2001**, 40, 1743-1746	16.4	412
1224	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. *Advanced Materials*, **2009**, 21, 3799-3803	24	397
1223	Interfacial material system exhibiting superwettability. *Advanced Materials*, **2014**, 26, 6872-97	24	394
1222	Application of superhydrophobic surface with high adhesive force in no lost transport of superparamagnetic microdroplet. *Journal of the American Chemical Society*, **2007**, 129, 1478-9	16.4	393
1221	Bio-Inspired Self-Cleaning Surfaces. *Annual Review of Materials Research*, **2012**, 42, 231-263	12.8	366
1220	Efficient water collection on integrative bioinspired surfaces with star-shaped wettability patterns. *Advanced Materials*, **2014**, 26, 5025-30	24	355
1219	Energy Harvesting with Single-Ion-Selective Nanopores: A Concentration-Gradient-Driven Nanofluidic Power Source. *Advanced Functional Materials*, **2010**, 20, 1339-1344	15.6	337
1218	Zeolite-coated mesh film for efficient oil–water separation. *Chemical Science*, **2013**, 4, 591-595	9.4	335
1217	Electrospun porous structure fibrous film with high oil adsorption capacity. *ACS Applied Materials & Interfaces*, **2012**, 4, 3207-12	9.5	335
1216	Structured cone arrays for continuous and effective collection of micron-sized oil droplets from water. *Nature Communications*, **2013**, 4, 2276	17.4	332
1215	High-performance ionic diode membrane for salinity gradient power generation. *Journal of the American Chemical Society*, **2014**, 136, 12265-72	16.4	322
1214	Robust Anti-Icing Performance of a Flexible Superhydrophobic Surface. *Advanced Materials*, **2016**, 28, 7729-35	24	318
1213	Dual-responsive surfaces modified with phenylboronic acid-containing polymer brush to reversibly capture and release cancer cells. *Journal of the American Chemical Society*, **2013**, 135, 7603-9	16.4	314
1212	Asymmetric ion transport through ion-channel-mimetic solid-state nanopores. *Accounts of Chemical Research*, **2013**, 46, 2834-46	24.3	312
1211	Photo-induced water–oil separation based on switchable superhydrophobicity–superhydrophilicity and underwater superoleophobicity of the aligned ZnO nanorod array-coated mesh films. *Journal of Materials Chemistry*, **2012**, 22, 19652		304
1210	Super-Hydrophobic PDMS Surface with Ultra-Low Adhesive Force. *Macromolecular Rapid Communications*, **2005**, 26, 1805-1809	4.8	302

1209	Colorful humidity sensitive photonic crystal hydrogel. *Journal of Materials Chemistry*, **2008**, 18, 1116		287
1208	A biomimetic potassium responsive nanochannel: G-quadruplex DNA conformational switching in a synthetic nanopore. *Journal of the American Chemical Society*, **2009**, 131, 7800-5	16.4	285
1207	Superior water repellency of water strider legs with hierarchical structures: experiments and analysis. *Langmuir*, **2007**, 23, 4892-6	4	285
1206	Under-Water Superaerophobic Pine-Shaped Pt Nanoarray Electrode for Ultrahigh-Performance Hydrogen Evolution. *Advanced Functional Materials*, **2015**, 25, 1737-1744	15.6	283
1205	Super-Hydrophobicity of Large-Area Honeycomb-Like Aligned Carbon Nanotubes. *Journal of Physical Chemistry B*, **2002**, 106, 9274-9276	3.4	267
1204	Gating of single synthetic nanopores by proton-driven DNA molecular motors. *Journal of the American Chemical Society*, **2008**, 130, 8345-50	16.4	265
1203	Directly Coating Hydrogel on Filter Paper for Effective Oil–Water Separation in Highly Acidic, Alkaline, and Salty Environment. *Advanced Functional Materials*, **2015**, 25, 5368-5375	15.6	263
1202	Electrochemical Deposition of Conductive Superhydrophobic Zinc Oxide Thin Films. *Journal of Physical Chemistry B*, **2003**, 107, 9954-9957	3.4	263
1201	Floatable, Self-Cleaning, and Carbon-Black-Based Superhydrophobic Gauze for the Solar Evaporation Enhancement at the Air-Water Interface. *ACS Applied Materials & Interfaces*, **2015**, 7, 13645-52	9.5	262
1200	Electrospinning of multilevel structured functional micro-/nanofibers and their applications. *Journal of Materials Chemistry A*, **2013**, 1, 7290	13	262
1199	Patterning of controllable surface wettability for printing techniques. *Chemical Society Reviews*, **2013**, 42, 5184-209	58.5	253
1198	Bioinspired smart asymmetric nanochannel membranes. *Chemical Society Reviews*, **2018**, 47, 322-356	58.5	250
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1196	Wetting: intrinsically robust hydrophobicity. *Nature Materials*, **2013**, 12, 291-2	27	241
1195	Clam's shell inspired high-energy inorganic coatings with underwater low adhesive superoleophobicity. *Advanced Materials*, **2012**, 24, 3401-5	24	239
1194	Bioinspired layered materials with superior mechanical performance. *Accounts of Chemical Research* , **2014**, 47, 1256-66	24.3	236
1193	Curvature-driven reversible in situ switching between pinned and roll-down superhydrophobic States for water droplet transportation. *Advanced Materials*, **2011**, 23, 545-9	24	236
1192	Superwetting Electrodes for Gas-Involving Electrocatalysis. *Accounts of Chemical Research*, **2018**, 51, 1590-1598	24.3	235

1191	Bio-inspired hierarchical macromolecule-nanoclay hydrogels for robust underwater superoleophobicity. *Advanced Materials*, **2010**, 22, 4826-30	24	234
1190	Photoresponsive surfaces with controllable wettability. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2007**, 8, 18-29	16.4	233
1189	Functional biointerface materials inspired from nature. *Chemical Society Reviews*, **2011**, 40, 2909-21	58.5	228
1188	Bio-inspired photonic-crystal microchip for fluorescent ultratrace detection. *Angewandte Chemie - International Edition*, **2014**, 53, 5791-5	16.4	226
1187	Direction controlled driving of tiny water drops on bioinspired artificial spider silks. *Advanced Materials*, **2010**, 22, 5521-5	24	226
1186	Engineered Asymmetric Heterogeneous Membrane: A Concentration-Gradient-Driven Energy Harvesting Device. *Journal of the American Chemical Society*, **2015**, 137, 14765-72	16.4	225
1185	Single-crystalline layered metal-halide perovskite nanowires for ultrasensitive photodetectors. *Nature Electronics*, **2018**, 1, 404-410	28.4	224
1184	Bioinspired conical copper wire with gradient wettability for continuous and efficient fog collection. *Advanced Materials*, **2013**, 25, 5937-42	24	219
1183	Unidirectional water-penetration composite fibrous film via electrospinning. *Soft Matter*, **2012**, 8, 5996	3.6	217
1182	Hydrophobic interaction-mediated capture and release of cancer cells on thermoresponsive nanostructured surfaces. *Advanced Materials*, **2013**, 25, 922-7	24	217
1181	Enantioselective recognition in biomimetic single artificial nanochannels. *Journal of the American Chemical Society*, **2011**, 133, 7644-7	16.4	215
1180	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. *Science Advances*, **2018**, 4, eaaq0066	14.3	214
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1177	Bioinspired colloidal photonic crystals with controllable wettability. *Accounts of Chemical Research*, **2011**, 44, 405-15	24.3	210
1176	Osmotic Power Generation with Positively and Negatively Charged 2D Nanofluidic Membrane Pairs. *Advanced Functional Materials*, **2017**, 27, 1603623	15.6	209
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1169	Ultrathin and Ion-Selective Janus Membranes for High-Performance Osmotic Energy Conversion. *Journal of the American Chemical Society*, **2017**, 139, 8905-8914	16.4	202
1168	Ultrafast water harvesting and transport in hierarchical microchannels. *Nature Materials*, **2018**, 17, 935-942	47	200
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1164	Learning from nature: building bio-inspired smart nanochannels. *ACS Nano*, **2009**, 3, 3339-42	16.7	196
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1160	Bio-inspired two-dimensional nanofluidic generators based on a layered graphene hydrogel membrane. *Advanced Materials*, **2013**, 25, 6064-8	24	191
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1153	A pH-gating ionic transport nanodevice: Asymmetric chemical modification of single nanochannels. *Advanced Materials*, **2010**, 22, 2440-3	24	182
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1142	Bioinspired one-dimensional materials for directional liquid transport. *Accounts of Chemical Research*, **2014**, 47, 2342-52	24.3	167
1141	Bioinspired Designs of Superhydrophobic and Superhydrophilic Materials. *ACS Central Science*, **2018** , 4, 1102-1112	16.8	166
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1138	Enthalpy-driven three-state switching of a superhydrophilic/superhydrophobic surface. *Angewandte Chemie - International Edition*, **2007**, 46, 3915-7	16.4	164

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1135	Bioinspired Graphene-Based Nanocomposites and Their Application in Flexible Energy Devices. *Advanced Materials*, **2016**, 28, 7862-7898	24	159
1134	Superaerophilic Carbon-Nanotube-Array Electrode for High-Performance Oxygen Reduction Reaction. *Advanced Materials*, **2016**, 28, 7155-61	24	159
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1132	Current rectification in temperature-responsive single nanopores. *ChemPhysChem*, **2010**, 11, 859-64	3.2	158
1131	Self-assembly of large-scale micropatterns on aligned carbon nanotube films. *Angewandte Chemie - International Edition*, **2004**, 43, 1146-9	16.4	158
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1127	Nanofluidics in two-dimensional layered materials: inspirations from nature. *Chemical Society Reviews*, **2017**, 46, 5400-5424	58.5	154
1126	Nacre-inspired design of mechanical stable coating with underwater superoleophobicity. *ACS Nano*, **2013**, 7, 5077-83	16.7	153
1125	Simply realizing water diode Janus membranes for multifunctional smart applications. *Materials Horizons*, **2017**, 4, 701-708	14.4	151
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1108	Fabrication of three-dimensional ZnO/TiO2 heteroarchitectures via a solution process. *Journal of Materials Chemistry*, **2008**, 18, 3909		139
1107	Bioinspired Superwettability Electrospun Micro/Nanofibers and Their Applications. *Advanced Functional Materials*, **2018**, 28, 1801114	15.6	139
1106	Unidirectional Wetting Properties on Multi-Bioinspired Magnetocontrollable Slippery Microcilia. *Advanced Materials*, **2017**, 29, 1606869	24	138
1105	Bioinspired construction of Mg□i alloys surfaces with stable superhydrophobicity and improved corrosion resistance. *Applied Physics Letters*, **2008**, 92, 183103	3.4	138
1104	Thermal-responsive hydrogel surface: tunable wettability and adhesion to oil at the water/solid interface. *Soft Matter*, **2010**, 6, 2708	3.6	136
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1092	Air bubble bursting effect of lotus leaf. *Langmuir*, **2009**, 25, 14129-34	4	130
1091	Bio-inspired photonic crystals with superwettability. *Chemical Society Reviews*, **2016**, 45, 6833-6854	58.5	129
1090	Temperature-driven switching of water adhesion on organogel surface. *Advanced Materials*, **2014**, 26, 1895-900	24	129
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1088	Bioinspired layered composites based on flattened double-walled carbon nanotubes. *Advanced Materials*, **2012**, 24, 1838-43	24	128
1087	Salt-Tolerant Superoleophobicity on Alginate Gel Surfaces Inspired by Seaweed (Saccharina japonica). *Advanced Materials*, **2015**, 27, 4162-8	24	128
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