ZhiGuang Guo

List of Publications by Year in descending order

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Version: 2024-02-01

322 papers	17,452 citations	13865 67 h-index	20358 116 g-index
336 all docs	336 docs citations	336 times ranked	12061 citing authors

#	Article	IF	Citations
1	Lubricant self-replenishing slippery surface with prolonged service life for fog harvesting. Friction, 2022, 10, 1676-1692.	6.4	2
2	What are the Progresses and Challenges, from the Electrical Properties of Current-Carrying Friction System to Tribological Performance, for a Stable Current-Carrying Interface?. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	2.6	2
3	Functionalized paper with intelligent response to humidity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 633, 127844.	4.7	2
4	Fog collection behavior of bionic surface and large fog collector: A review. Advances in Colloid and Interface Science, 2022, 300, 102583.	14.7	31
5	Slippery magnetic track inducing droplet and bubble manipulation. Chemical Communications, 2022, 58, 1207-1210.	4.1	7
6	All-Inorganic Perovskite Solar Cells with Tetrabutylammonium Acetate as the Buffer Layer between the SnO₂ Electron Transport Film and CsPbI₃. ACS Applied Materials & Interfaces, 2022, 14, 5183-5193.	8.0	20
7	Overview of the development of slippery surfaces: Lubricants from presence to absence. Advances in Colloid and Interface Science, 2022, 301, 102602.	14.7	33
8	Natural polysaccharide-based aerogels and their applications in oilâ€“water separations: a review. Journal of Materials Chemistry A, 2022, 10, 8129-8158.	10.3	48
9	Design of a Venation-like Patterned Surface with Hybrid Wettability for Highly Efficient Fog Harvesting. Nano Letters, 2022, 22, 3104-3111.	9.1	39
10	Icephobic/anti-icing properties of superhydrophobic surfaces. Advances in Colloid and Interface Science, 2022, 304, 102658.	14.7	103
11	Preparation of an electrically conductive, flame-retardant, and superhydrophobic recycled paper. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128671.	4.7	3
12	A special underoil superhydrophilic (UOSHL) membrane: Growing of copper phosphate (Cu3(PO4)2) nanosheet to achieve self-cleaning and efficient oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128904.	4.7	8
13	Slippery Surface with Petal-like Structure for Protecting Al Alloy: Anti-corrosion, Anti-fouling and Anti-icing. Journal of Bionic Engineering, 2022, 19, 83-91.	5.0	7
14	Special Wettability Materials Inspired by Multiorganisms for Fog Collection. Advanced Materials Interfaces, 2022, 9, .	3.7	9
15	Endowment of high buoyancy and antifouling properties upon a simple superamphiphobic cotton fabric. Materials Advances, 2022, 3, 4526-4530.	5.4	1
16	Superhydrophobic/Superoleophilic Copper Mesh for Heavy Oil-water Separation. Chemistry Letters, 2022, 51, 796-798.	1.3	3
17	Mucilage-inspired robust antifouling coatings under liquid mediums. Chemical Engineering Journal, 2022, 446, 136949.	12.7	2
18	Two-step facile fabrication of a superamphiphilic biomimic membrane with a microâ€“nano structure for oilâ€“water emulsion separation on-demand. New Journal of Chemistry, 2022, 46, 14140-14145.	2.8	2

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19	Multibioinspired Janus membranes with superwettable performance for unidirectional transportation and fog collection. Chemical Engineering Journal, 2021, 404, 126515.	12.7	48
20	A robust and repairable copper-based superhydrophobic microfiltration membrane for high-efficiency water-in-oil emulsion separation. Separation and Purification Technology, 2021, 256, 117751.	7.9	30
21	Graphene and its derivative composite materials with special wettability: Potential application in oil-water separation. Carbon, 2021, 172, 647-681.	10.3	47
22	Is superhydrophobicity equal to underwater superoleophilicity? Hydrophilic wetting defects on a superhydrophobic matrix with switchable superdewetting in both air and water. Journal of Materials Chemistry A, 2021, 9, 1471-1479.	10.3	16
23	Durable mixed edible wax coating with stretching superhydrophobicity. Journal of Materials Chemistry A, 2021, 9, 1495-1499.	10.3	21
24	Fabrication of switchable surface wettability with UV-triggered on cotton fabric. Materials Letters, 2021, 283, 128767.	2.6	2
25	Cellulose acetate/fiber paper composite membrane for separation of an oil-in-water emulsion. New Journal of Chemistry, 2021, 45, 12351-12355.	2.8	11
26	Anti-greasy and conductive superamphiphobic coating applied to the carbon brushes/conductive rings of hydro-generators. RSC Advances, 2021, 11, 12381-12391.	3.6	2
27	Adhesion behaviors on four special wettable surfaces: natural sources, mechanisms, fabrications and applications. Soft Matter, 2021, 17, 4895-4928.	2.7	19
28	Bioinspired surfaces with special micro-structures and wettability for drag reduction: which surface design will be a better choice?. Nanoscale, 2021, 13, 3463-3482.	5.6	40
29	Bioinspired textile with dual-stimuli responsive wettability for body moisture management and signal expression. New Journal of Chemistry, 2021, 45, 12193-12202.	2.8	1
30	Superamphiphobic coatings with antifouling and nonflammable properties using functionalized hydroxyapatite. New Journal of Chemistry, 2021, 45, 6238-6246.	2.8	3
31	Review on the recent development of durable superhydrophobic materials for practical applications. Nanoscale, 2021, 13, 11734-11764.	5.6	148
32	A robust surface with superhydrophobicity and underwater superoleophobicity for on-demand oil/water separation. Nanoscale, 2021, 13, 15334-15342.	5.6	23
33	Simple preparation of a durable and low-cost load-bearing three-dimensional porous material for emulsion separation. New Journal of Chemistry, 2021, 45, 17893-17901.	2.8	4
34	Janus Membranes with Asymmetric Wettability Applied in Oil/Water Emulsion Separations. Advanced Sustainable Systems, 2021, 5, 2000253.	5.3	39
35	Artificial Leaf for Switchable Droplet Manipulation. Langmuir, 2021, 37, 5745-5752.	3.5	15
36	How to Efficiently Prepare Transparent Lubricant-Infused Surfaces: Inspired by Candle Soot. Langmuir, 2021, 37, 4869-4878.	3.5	5

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37	A solvent-responsive robust superwetting titanium dioxide-based metal rubber for oil-water separation and dye degradation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126179.	4.7	13
38	Bio-inspired Fog Harvesting Materials: Basic Research and Bionic Potential Applications. Journal of Bionic Engineering, 2021, 18, 501-533.	5.0	35
39	Water droplet transport on a nylon mesh with graded structures by facile PMMA spraying and etching process inspired by spider silk. Materials Letters, 2021, 291, 129546.	2.6	9
40	Reed leaf-inspired anisotropic slippery lubricant-infused surface for water collection and bubble transportation. Chemical Engineering Journal, 2021, 411, 128495.	12.7	30
41	Recent advances in slippery liquid-infused surfaces with unique properties inspired by nature. Bio-Design and Manufacturing, 2021, 4, 506-525.	7.7	35
42	Substrate-free water film for liquid directional transportation. Chemical Engineering Journal, 2021, 411, 128464.	12.7	7
43	Stable and Durable Conductive Superhydrophobic Coatings Prepared by Double-Layer Spray Coating Method. Nanomaterials, 2021, 11, 1506.	4.1	19
44	WO3-based slippery coatings with long-term stability for efficient fog harvesting. Journal of Colloid and Interface Science, 2021, 591, 418-428.	9.4	30
45	Near-bulge oil meniscus-induced migration and condensation of droplets for water collection: Energy saving, generalization and recyclability. Chemical Engineering Journal, 2021, 417, 129215.	12.7	22
46	Fabrication of bioinspired edible liquid marble with phase transition and tunable water barrier property. Bio-Design and Manufacturing, 2021, 4, 889-901.	7.7	10
47	A robust copper oxide-based superhydrophobic microfiltration membrane for moisture-proof treatment of trace water in transformer oil. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126843.	4.7	6
48	Lubricant-Infused Three-Dimensional Frame Composed of a Micro/Nanospinous Ball Cluster Structure with Salient Durability and Superior Fog Harvesting Capacity. ACS Applied Materials & Interfaces, 2021, 13, 46192-46201.	8.0	10
49	External-field-induced directional droplet transport: A review. Advances in Colloid and Interface Science, 2021, 295, 102502.	14.7	22
50	Simple Method for the Fabrication of Multiple Superwetting Surfaces with Photoresponse. Langmuir, 2021, 37, 11115-11122.	3.5	6
51	Asymmetric superwetting stainless steel meshes for on-demand and highly effective oil-water emulsion separation. Separation and Purification Technology, 2021, 273, 118994.	7.9	58
52	PES asymmetric membrane for oil-in-water emulsion separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127096.	4.7	13
53	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. Nano Today, 2021, 40, 101283.	11.9	61
54	Multi-layer superhydrophobic nickel foam (NF) composite for highly efficient water-in-oil emulsion separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127299.	4.7	11

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55	A combined structural and wettability gradient surface for directional droplet transport and efficient fog collection. Journal of Colloid and Interface Science, 2021, 604, 526-536.	9.4	32
56	Superamphiphilic stainless steel mesh for oil/water emulsion separation on-demand. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127574.	4.7	11
57	Facile preparation of a superamphiphilic nitrocellulose membrane enabling on-demand and energy-efficient separation of oil/water mixtures and emulsions by prewetting. Biomaterials Science, 2021, 9, 5559-5568.	5.4	15
58	Stable and biocompatible slippery lubricant-infused anode-oxidated titanium nanotube surfaces via a grafted polydimethylsiloxane brush. New Journal of Chemistry, 2021, 45, 17493-17502.	2.8	2
59	One-Step Methods to Fabricate Durable Superhydrophobic Coatings for Flexible Electronic Sensors. Coatings, 2021, 11, 95.	2.6	3
60	The intrigue of directional water collection interface: mechanisms and strategies. Journal of Materials Chemistry A, 2021, 9, 22729-22758.	10.3	9
61	Anisotropic Janus materials: from micro-/nanostructures to applications. Nanoscale, 2021, 13, 18839-18864.	5.6	24
62	Recent advances in biomimetic surfaces inspired by creatures for fog harvesting. New Journal of Chemistry, 2021, 45, 21125-21150.	2.8	3
63	Enhanced Performance and Stability of Carbon Counter Electrode-Based MAPbI₃ Perovskite Solar Cells with p-Methylphenylamine Iodate Additives. ACS Applied Energy Materials, 2021, 4, 11314-11324.	5.1	4
64	Superhydrophobic materials used for anti-icing Theory, application, and development. IScience, 2021, 24, 103357.	4.1	52
65	The gorgeous transformation of paper: from cellulose paper to inorganic paper to 2D paper materials with multifunctional properties. Journal of Materials Chemistry A, 2021, 10, 122-156.	10.3	19
66	Multifuctional Janus Materials for Rapid One-Way Water Transportation and Fog Collection. Langmuir, 2021, 37, 13778-13786.	3.5	11
67	Robust moisture-proof coating applied to the protection and storage of bulk metal glass transformer core in mine-environment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 635, 128049.	4.7	0
68	Superhydrophobic Carbon Nanotubeâ€“Metal Rubber Composites for Emulsion Separation. ACS Applied Nano Materials, 2021, 4, 13643-13654.	5.0	5
69	Effective sugar-derived organic gelator for three different types of lubricant oils to improve tribological performance. Friction, 2020, 8, 1025-1038.	6.4	21
70	Novel and cutting-edge applications for a solvent-responsive superoleophobicâ€“superhydrophilic surface: Water-infused omniphobic surface and separating organic liquid mixtures. Chemical Engineering Journal, 2020, 381, 122629.	12.7	43
71	Highly fluorinated F-APP-TiO2 particle with hierarchical core-shell structure and its application in multifunctional superamphiphobic surface: Mechanical robustness, self-recovery and flame retardancy. Journal of Colloid and Interface Science, 2020, 560, 777-786.	9.4	28
72	Wear-resistant and robust superamphiphobic coatings with hierarchical TiO₂/SiO₂ composite particles and inorganic adhesives. New Journal of Chemistry, 2020, 44, 1194-1203.	2.8	25

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73	Hybrid Hydrophilicâ€“Hydrophobic CuO@TiO₂-Coated Copper Mesh for Efficient Water Harvesting. Langmuir, 2020, 36, 64-73.	3.5	30
74	A Hybrid Stainless-steel Mesh with Nano-array Structure Applied for Efficient Fog Harvesting by Tuning Wetting. Chemistry Letters, 2020, 49, 79-82.	1.3	2
75	Excellent fog droplets collector via an extremely stable hybrid hydrophobic-hydrophilic surface and Janus copper foam integrative system with hierarchical micro/nanostructures. Journal of Colloid and Interface Science, 2020, 561, 730-740.	9.4	43
76	The fabrication of hierarchically porous carbon-coated nickel oxide nanomaterials with enhanced electrochemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 20641-20653.	2.2	5
77	Flexible 3D porous superhydrophobic composites for oil-water separation and organic solvent detection. Materials and Design, 2020, 196, 109144.	7.0	43
78	Programming Multiphase Media Superwetting States in the Oilâ€“Waterâ€“Air System: Evolutions in Hydrophobicâ€“Hydrophilic Surface Heterogeneous Chemistry. Advanced Materials, 2020, 32, e2004875.	21.0	38
79	New insights into unusual droplets: from mediating the wettability to manipulating the locomotion modes. Chemical Communications, 2020, 56, 14757-14788.	4.1	18
80	Facile Fabrication of Slippery Lubricant-Infused CuO-Coated Surfaces with Different Morphologies for Efficient Water Collection and Excellent Slippery Stability. Langmuir, 2020, 36, 8983-8992.	3.5	21
81	Biomimetic fog collection and its influencing factors. New Journal of Chemistry, 2020, 44, 20495-20519.	2.8	14
82	Designing novel superwetting surfaces for high-efficiency oilâ€“water separation: design principles, opportunities, trends and challenges. Journal of Materials Chemistry A, 2020, 8, 16831-16853.	10.3	194
83	A comparison between superhydrophobic surfaces (SHS) and slippery liquid-infused porous surfaces (SLIPS) in application. Nanoscale, 2020, 12, 22398-22424.	5.6	72
84	An ionic liquid-infused slippery surface for temperature stability, shear resistance and corrosion resistance. Journal of Materials Chemistry A, 2020, 8, 24075-24085.	10.3	28
85	Facile preparation of a superamphiphobic fabric coating with hierarchical TiO₂ particles. New Journal of Chemistry, 2020, 44, 19192-19200.	2.8	10
86	Bioinspired materials for water-harvesting: focusing on microstructure designs and the improvement of sustainability. Materials Advances, 2020, 1, 2592-2613.	5.4	23
87	Bionic smart recycled paper endowed with amphiphobic, photochromic, and UV rewritable properties. Nanoscale Advances, 2020, 2, 4813-4821.	4.6	6
88	Site-specific Positioning of MoS₂ on Fabric Weaves by Post Treatment or In-situ Method for Hydrophobic Stability and Photoluminescence Enhancement. Chemistry Letters, 2020, 49, 1376-1378.	1.3	0
89	A paper-making transformation: from cellulose-based superwetting paper to biomimetic multifunctional inorganic paper. Journal of Materials Chemistry A, 2020, 8, 20238-20259.	10.3	20
90	Robust multi-functional slippery surface with hollow ZnO nanotube structures. New Journal of Chemistry, 2020, 44, 15483-15491.	2.8	12

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91	Optimal Design of a Fog Collector: Unidirectional Water Transport on a System Integrated by Conical Copper Needles with Gradient Wettability and Hydrophilic Slippery Rough Surfaces. Langmuir, 2020, 36, 6801-6810.	3.5	39
92	A CVD-Assisted Modification Approach for Preparing a Dual Superlyophobic Fabric with In-Air Superhydrophobicity and Underwater Superoleophobicity. Langmuir, 2020, 36, 5802-5808.	3.5	12
93	A Facile Modifier-free Approach to Fabricate Antistatic Superhydrophobic Composite Coatings with Remarkable Thermal Stability and Corrosion Resistance. Journal of Bionic Engineering, 2020, 17, 421-435.	5.0	17
94	Mechano-adjusted anisotropic surface for manipulating water droplets. Chemical Engineering Journal, 2020, 395, 125110.	12.7	13
95	Tomato-lotus inspired edible superhydrophobic artificial lotus leaf. Chemical Engineering Journal, 2020, 400, 125883.	12.7	48
96	Fine Switching between Underwater Superoleophilicity and Underwater Superoleophobicity while Maintaining Superhydrophobicity. Langmuir, 2020, 36, 3300-3307.	3.5	4
97	Mechanically durable and long-term repairable flexible lubricant-infused monomer for enhancing water collection efficiency by manipulating droplet coalescence and sliding. Nanoscale Advances, 2020, 2, 1473-1482.	4.6	11
98	Robust Superhydrophobic Composite Featuring Three-Dimensional Porous Metal Rubber with an Embedded Carbon Nanofiber Network for Emulsion Separation. Industrial & Engineering Chemistry Research, 2020, 59, 6172-6182.	3.7	24
99	Robust Superhydrophobic Membrane for Solving Water-Accelerated Fatigue of ZDDP-Containing Lubricating Oils. Langmuir, 2020, 36, 8560-8569.	3.5	15
100	Superomniphobic Silk Fibroin/Ag Nanowires Membrane for Flexible and Transparent Electronic Sensor. ACS Applied Materials & Interfaces, 2020, 12, 10039-10049.	8.0	35
101	A superamphiphobic surface with a hydrogen peroxide-triggered switch to antithetic fluid repellence in a liquidâ€“liquidâ€“air three-phase fluid system. Chemical Communications, 2020, 56, 4312-4315.	4.1	4
102	A bioinspired lubricant infused surface with transparency, hot liquid boiling resistance and long-term stability for food applications. New Journal of Chemistry, 2020, 44, 4529-4537.	2.8	12
103	A fog-collecting surface mimicking the Namib beetle: its water collection efficiency and influencing factors. Nanoscale, 2020, 12, 6921-6936.	5.6	46
104	What are the design principles, from the choice of lubricants and structures to the preparation method, for a stable slippery lubricant-infused porous surface?. Materials Horizons, 2020, 7, 1697-1726.	12.2	96
105	Bioinspired surfaces with wettability: biomolecule adhesion behaviors. Biomaterials Science, 2020, 8, 1502-1535.	5.4	89
106	Sprayed hieratical biomimetic superhydrophilic-superhydrophobic surface for efficient fog harvesting. Chemical Engineering Journal, 2020, 388, 124283.	12.7	82
107	Robust superhydrophobic polyurea@cellulose nanocrystal coating. New Journal of Chemistry, 2020, 44, 11739-11745.	2.8	6
108	Water deteriorates lubricating oils: removal of water in lubricating oils using a robust superhydrophobic membrane. Nanoscale, 2020, 12, 11703-11710.	5.6	29

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109	Integration of bubble phobicity, gas sensing and friction alleviation into a versatile MoS2/SnO2/CNF heterostructure by an impressive, simple and effective method. Nanoscale, 2020, 12, 18629-18639.	5.6	2
110	Tribological performance of ionic liquidâ€lubricated carbon brush/collector ring currentâ€carrying friction system. Biosurface and Biotribology, 2020, 6, 104-113.	1.5	2
111	Drop/bubble transportation and controllable manipulation on patterned slippery lubricant infused surfaces with tunable wettability. Soft Matter, 2019, 15, 6803-6810.	2.7	33
112	Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. Chemical Communications, 2019, 55, 10820-10843.	4.1	36
113	Durable Lubricant-Impregnated Surfaces for Water Collection under Extremely Severe Working Conditions. ACS Applied Materials & Interfaces, 2019, 11, 35949-35958.	8.0	49
114	Hierarchical fibers for water collection inspired by spider silk. Nanoscale, 2019, 11, 15448-15463.	5.6	45
115	A Novel Method to Fabricate Nitrogen and Oxygen Coâ€Doped Flexible Cottonâ€Based Electrode for Wearable Supercapacitors. ChemElectroChem, 2019, 6, 4049-4058.	3.4	6
116	Fabrications and Applications of Slippery Liquid-infused Porous Surfaces Inspired from Nature: A Review. Journal of Bionic Engineering, 2019, 16, 769-793.	5.0	53
117	Subtractive manufacturing of stable hierarchical micro-nano structures on AA5052 sheet with enhanced water repellence and durable corrosion resistance. Materials and Design, 2019, 183, 108152.	7.0	149
118	A different wettable Janus material with universal floatability for anti-turnover and lossless transportation of crude oil. New Journal of Chemistry, 2019, 43, 15213-15221.	2.8	2
119	Directional Penetration of Underwater Bubbles on Janus Surfaces. Chemistry Letters, 2019, 48, 1254-1257.	1.3	3
120	Kevlar fiber-reinforced multifunctional superhydrophobic paper for oilâ€“water separation and liquid transportation. New Journal of Chemistry, 2019, 43, 15453-15461.	2.8	25
121	Triple-network hydrogels with high strength, low friction and self-healing by chemical-physical crosslinking. Journal of Colloid and Interface Science, 2019, 556, 549-556.	9.4	48
122	Biomimetic high-intensity superhydrophobic metal rubber with anti-corrosion property for industrial oilâ€“water separation. New Journal of Chemistry, 2019, 43, 1894-1899.	2.8	20
123	Water super-repellent behavior of semicircular micro/nanostructured surfaces. Nanoscale, 2019, 11, 3725-3732.	5.6	15
124	Energy-effective superhydrophobic nanocoating based on recycled eggshell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 20-28.	4.7	22
125	Wettability of graphene: from influencing factors and reversible conversions to potential applications. Nanoscale Horizons, 2019, 4, 339-364.	8.0	103
126	Facile synthesis of superhydrophobic three-metal-component layered double hydroxide films on aluminum foils for highly improved corrosion inhibition. New Journal of Chemistry, 2019, 43, 2289-2298.	2.8	24

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127	Miniature Bioreactors: Onâ€Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications (Adv. Sci. 10/2019). Advanced Science, 2019, 6, 1970061.	11.2	0
128	One-step fabrication of thermal resistant, corrosion resistant metal rubber for oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 573, 157-164.	4.7	18
129	A scalable, self-healing and hot liquid repelling superamphiphobic spray coating with remarkable mechanochemical robustness for real-life applications. Nanoscale, 2019, 11, 13853-13862.	5.6	49
130	A hybrid bioinspired fiber trichome with special wettability for water collection, friction reduction and self-cleaning. Nanoscale, 2019, 11, 11774-11781.	5.6	27
131	A facile coating with water-repellent and flame-retardant properties on cotton fabric. New Journal of Chemistry, 2019, 43, 10183-10189.	2.8	27
132	Anti-solvent spin-coating for improving morphology of lead-free (CH3NH3)3Bi2I9 perovskite films. SN Applied Sciences, 2019, 1, 1.	2.9	7
133	Surface topographies of biomimetic superamphiphobic materials: design criteria, fabrication and performance. Advances in Colloid and Interface Science, 2019, 269, 87-121.	14.7	41
134	Superwetting Janus membranes: focusing on unidirectional transport behaviors and multiple applications. Journal of Materials Chemistry A, 2019, 7, 12921-12950.	10.3	155
135	Bubble shapes and their changes on slippery surfaces during directional transportation. Journal of Colloid and Interface Science, 2019, 552, 84-90.	9.4	23
136	Insitu growth of ZIF-8 on Co Al layered double hydroxide/carbon fiber composites for highly efficient absorptive removal of hexavalent chromium from aqueous solutions. Applied Clay Science, 2019, 175, 115-123.	5.2	29
137	Preparation and performance testing of superhydrophobic flame retardant cotton fabric. New Journal of Chemistry, 2019, 43, 5839-5848.	2.8	27
138	Onâ€Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. Advanced Science, 2019, 6, 1802033.	11.2	39
139	Multifunctional WS‹sub›2‹/sub›&M-AgNPs superhydrophobic conductive sponges for application in various sensors. New Journal of Chemistry, 2019, 43, 5287-5296.	2.8	6
140	An alternating nanoscale (hydrophilicâ€“hydrophobic)/hydrophilic Janus cooperative copper mesh fabricated by a simple liquidus modification for efficient fog harvesting. Journal of Materials Chemistry A, 2019, 7, 8405-8413.	10.3	82
141	Controllable preparation of multiple superantiwetting surfaces: From dual to quadruple superlyophobicity. Chemical Engineering Journal, 2019, 369, 463-469.	12.7	24
142	Fabrication of biocompatible super stable lubricant-immobilized slippery surfaces by grafting a polydimethylsiloxane brush: excellent boiling water resistance, hot liquid repellency and long-term slippery stability. Nanoscale, 2019, 11, 8870-8881.	5.6	44
143	Tribological Properties of Molybdenum Disulfide and Helical Carbon Nanotube Modified Epoxy Resin. Materials, 2019, 12, 903.	2.9	16
144	Facile fabrication of ultraviolet light cured fluorinated polymer layer for smart superhydrophobic surface with excellent durability and flame retardancy. Journal of Colloid and Interface Science, 2019, 547, 153-161.	9.4	27

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145	Fabrication of durable self-repairing superhydrophobic fabrics via a fluorinate-free waterborne biomimetic silicification strategy. New Journal of Chemistry, 2019, 43, 5032-5038.	2.8	11
146	An all superantiwetting surface in waterâ€“oilâ€“air systems. Journal of Materials Chemistry A, 2019, 7, 6957-6962.	10.3	20
147	Underwater manipulation of oil droplets and bubbles on superhydrophobic surfaces via switchable adhesion. Chemical Communications, 2019, 55, 3394-3397.	4.1	21
148	Underwater Superoleophobic Crucian Fish Scale: Influence of Ontogeny on Surface Morphologies and Wettability. Journal of Bionic Engineering, 2019, 16, 1061-1067.	5.0	5
149	Superhydrophobic and slippery cotton fabrics with robust nanolayers for stable wettability, anti-fouling and anti-icing properties. New Journal of Chemistry, 2019, 43, 16656-16663.	2.8	26
150	Bioinspired surfaces with wettability for antifouling application. Nanoscale, 2019, 11, 22636-22663.	5.6	130
151	A highly fluorinated SiO₂ particle assembled, durable superhydrophobic and superoleophobic coating for both hard and soft materials. Nanoscale, 2019, 11, 18338-18346.	5.6	40
152	A dual underliquid superlyophobic surface in organic media for on-demand separation of immiscible organic liquid mixtures. Chemical Communications, 2019, 55, 13876-13879.	4.1	12
153	Liquid infused surfaces with anti-icing properties. Nanoscale, 2019, 11, 22615-22635.	5.6	61
154	Polysulfide microspheres with chemical modification for generation of interfaces with macroscopic colour variation and biomimetic superhydrophobicity. Nanoscale Advances, 2019, 1, 281-290.	4.6	4
155	Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. Nanoscale Horizons, 2019, 4, 52-76.	8.0	213
156	Elastic Lubricious Effect of Solidlike Boundary Films in Oil-Starvation Lubrication. Journal of Physical Chemistry C, 2019, 123, 1677-1691.	3.1	7
157	Facile fabrication of superhydrophobic filter paper with high water adhesion. Materials Letters, 2019, 236, 732-735.	2.6	21
158	A study of synthesizing stable super-slip carbon nanotubes by grafting octadecylamine. Journal of Colloid and Interface Science, 2019, 540, 126-133.	9.4	7
159	Biomimetic Janus Paper with Controllable Swelling for Shape Memory and Energy Conversion. Journal of Bionic Engineering, 2019, 16, 1-12.	5.0	9
160	Superhydrophobic Plant Leaves: The Variation in Surface Morphologies and Wettability during the Vegetation Period. Langmuir, 2019, 35, 1047-1053.	3.5	35
161	Lubricant-infused slippery surfaces: Facile fabrication, unique liquid repellence and antireflective properties. Journal of Colloid and Interface Science, 2019, 536, 507-515.	9.4	67
162	Robust Mg(OH)2/epoxy resin superhydrophobic coating applied to composite insulators. Applied Surface Science, 2019, 466, 126-132.	6.1	38

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