ZhiGuang Guo

List of Publications by Year
in descending order

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	Biomimetic super-lyophobic and super-lyophilic materials applied for oil/water separation: a new strategy beyond nature. Chemical Society Reviews, 2015, 44, 336-361.	38.1	1,359
2	Superhydrophobic surfaces: From natural to biomimetic to functional. Journal of Colloid and Interface Science, 2011, 353, 335-355.	9.4	860
3	Biomimic from the superhydrophobic plant leaves in nature: Binary structure and unitary structure. Plant Science, 2007, 172, 1103-1112.	3.6	487
4	Stable Biomimetic Super-Hydrophobic Engineering Materials. Journal of the American Chemical Society, 2005, 127, 15670-15671.	13.7	479
5	Superhydrophobic nanocoatings: from materials to fabrications and to applications. Nanoscale, 2015, 7, 5922-5946.	5.6	322
6	Methodology for Robust Superhydrophobic Fabrics and Sponges from In Situ Growth of Transition Metal/Metal Oxide Nanocrystals with Thiol Modification and Their Applications in Oil/Water Separation. ACS Applied Materials & Interfaces, 2013, 5, 1827-1839.	8.0	251
7	Underwater superoleophobic graphene oxide coated meshes for the separation of oil and water. Chemical Communications, 2014, 50, 5586.	4.1	239
8	Biomimetic polymeric superhydrophobic surfaces and nanostructures: from fabrication to applications. Nanoscale, 2017, 9, 3338-3366.	5.6	232
9	Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. Journal of Materials Chemistry, 2012, 22, 9774.	6.7	231
10	Biomimetic superoleophobic surfaces: focusing on their fabrication and applications. Journal of Materials Chemistry A, 2015, 3, 1811-1827.	10.3	214
11	Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. Nanoscale Horizons, 2019, 4, 52-76.	8.0	213
12	Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. Chemical Communications, 2015, 51, 1775-1794.	4.1	209
13	Inorganic Adhesives for Robust Superwetting Surfaces. ACS Nano, 2017, 11, 1113-1119.	14.6	204
14	Adhesion behaviors on superhydrophobic surfaces. Chemical Communications, 2014, 50, 3900.	4.1	202
15	Fundamentals of icing and common strategies for designing biomimetic anti-icing surfaces. Journal of Materials Chemistry A, 2018, 6, 13549-13581.	10.3	194
16	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
17	Biomimetic water-collecting materials inspired by nature. Chemical Communications, 2016, 52, 3863-3879.	4.1	184
18	Advances in the theory of superhydrophobic surfaces. Journal of Materials Chemistry, 2012, 22, 20112.	6.7	177

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19	Recent progress of double-structural and functional materials with special wettability. Journal of Materials Chemistry, 2012, 22, 799-815.	6.7	175
20	pH-responsive bidirectional oilâ€“water separation material. Chemical Communications, 2013, 49, 9416.	4.1	170
21	Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. Journal of Materials Chemistry A, 2016, 4, 15749-15770.	10.3	168
22	Flourishing Bioinspired Antifogging Materials with Superwettability: Progresses and Challenges. Advanced Materials, 2018, 30, e1704652.	21.0	161
23	Superwetting Janus membranes: focusing on unidirectional transport behaviors and multiple applications. Journal of Materials Chemistry A, 2019, 7, 12921-12950.	10.3	155
24	A Robust Epoxy Resins @ Stearic Acid-Mg(OH)₂ Micronanosheet Superhydrophobic Omnipotent Protective Coating for Real-Life Applications. ACS Applied Materials & Interfaces, 2016, 8, 16511-16520.	8.0	154
25	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
26	Review on the recent development of durable superhydrophobic materials for practical applications. Nanoscale, 2021, 13, 11734-11764.	5.6	148
27	Inspired smart materials with external stimuli responsive wettability: a review. RSC Advances, 2016, 6, 36623-36641.	3.6	136
28	Robust micro-nanoscale flowerlike ZnO/epoxy resin superhydrophobic coating with rapid healing ability. Chemical Engineering Journal, 2017, 313, 1152-1159.	12.7	136
29	Biomimetic super durable and stable surfaces with superhydrophobicity. Journal of Materials Chemistry A, 2018, 6, 16731-16768.	10.3	136
30	Biomimetic Multi-Functional Superamphiphobic FOTS-TiO₂ Particles beyond Lotus Leaf. ACS Applied Materials & Interfaces, 2016, 8, 27188-27198.	8.0	131
31	Bioinspired surfaces with wettability for antifouling application. Nanoscale, 2019, 11, 22636-22663.	5.6	130
32	Inorganic adhesives for robust, self-healing, superhydrophobic surfaces. Journal of Materials Chemistry A, 2017, 5, 19297-19305.	10.3	128
33	Effects of system parameters on making aluminum alloy lotus. Journal of Colloid and Interface Science, 2006, 303, 298-305.	9.4	124
34	The chitosan hydrogels: from structure to function. New Journal of Chemistry, 2018, 42, 17162-17180.	2.8	113
35	Biomimetic photonic materials with tunable structural colors. Journal of Colloid and Interface Science, 2013, 406, 1-17.	9.4	106
36	Simple one-pot approach toward robust and boiling-water resistant superhydrophobic cotton fabric and the application in oil/water separation. Journal of Materials Chemistry A, 2017, 5, 21866-21874.	10.3	106

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37	Wettability of graphene: from influencing factors and reversible conversions to potential applications. Nanoscale Horizons, 2019, 4, 339-364.	8.0	103
38	Icephobic/anti-icing properties of superhydrophobic surfaces. Advances in Colloid and Interface Science, 2022, 304, 102658.	14.7	103
39	Interfacial effects of superhydrophobic plant surfaces: A review. Journal of Bionic Engineering, 2014, 11, 325-345.	5.0	102
40	Transparent slippery liquid-infused nanoparticulate coatings. Chemical Engineering Journal, 2018, 337, 462-470.	12.7	98
41	Fabrication of stable and durable superhydrophobic surface on copper substrates for oilâ€“water separation and ice-over delay. Journal of Colloid and Interface Science, 2016, 466, 36-43.	9.4	96
42	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
43	Stable and self-healing superhydrophobic MnO 2 @fabrics: Applications in self-cleaning, oil/water separation and wear resistance. Journal of Colloid and Interface Science, 2017, 503, 124-130.	9.4	95
44	Stable superhydrophobic and superoleophilic soft porous materials for oil/water separation. RSC Advances, 2013, 3, 16469.	3.6	93
45	A multifunctional transparent superhydrophobic gel nanocoating with self-healing properties. Chemical Communications, 2015, 51, 16794-16797.	4.1	93
46	A study on the fabrication of porous PVDF membranes by in-situ elimination and their applications in separating oil/water mixtures and nano-emulsions. Journal of Membrane Science, 2016, 520, 760-768.	8.2	92
47	Polyaniline coated membranes for effective separation of oil-in-water emulsions. Journal of Colloid and Interface Science, 2016, 467, 261-270.	9.4	91
48	Mechanical stability, corrosion resistance of superhydrophobic steel and repairable durability of its slippery surface. Journal of Colloid and Interface Science, 2018, 512, 239-248.	9.4	91
49	Bioinspired surfaces with wettability: biomolecule adhesion behaviors. Biomaterials Science, 2020, 8, 1502-1535.	5.4	89
50	Understanding the separations of oil/water mixtures from immiscible to emulsions on super-wettable surfaces. Journal of Bionic Engineering, 2016, 13, 1-29.	5.0	88
51	A robust and stretchable superhydrophobic PDMS/PVDF@KNFs membrane for oil/water separation and flame retardancy. Nanoscale, 2018, 10, 6695-6703.	5.6	85
52	Underoil superhydrophilic surfaces: water adsorption in metalâ€“organic frameworks. Journal of Materials Chemistry A, 2018, 6, 1692-1699.	10.3	84
53	High-efficiency water collection on biomimetic material with superwettable patterns. Chemical Communications, 2016, 52, 12415-12417.	4.1	82
54	Multifunctional hollow superhydrophobic SiO2 microspheres with robust and self-cleaning and separation of oil/water emulsions properties. Journal of Colloid and Interface Science, 2017, 494, 54-63.	9.4	82

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55	Stable Superwetting Meshes for On-Demand Separation of Immiscible Oil/Water Mixtures and Emulsions. Langmuir, 2017, 33, 3702-3710.	3.5	82
56	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
57	Sprayed hieratical biomimetic superhydrophilic-superhydrophobic surface for efficient fog harvesting. Chemical Engineering Journal, 2020, 388, 124283.	12.7	82
58	Biomimetic superhydrophobic surfaces with transition metals and their oxides: A review. Journal of Bionic Engineering, 2017, 14, 401-439.	5.0	81
59	Spontaneous directional transportations of water droplets on surfaces driven by gradient structures. Nanoscale, 2018, 10, 13814-13831.	5.6	81
60	Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. Applied Physics Letters, 2013, 103, .	3.3	80
61	Superwetting Materials of Oilâ€“Water Emulsion Separation. Chemistry Letters, 2015, 44, 874-883.	1.3	80
62	A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. Separation and Purification Technology, 2017, 184, 72-78.	7.9	80
63	Bioinspired Superhydrophobic Fe₃O₄@Polydopamine@Ag Hybrid Nanoparticles for Liquid Marble and Oil Spill. Advanced Materials Interfaces, 2015, 2, 1500234.	3.7	76
64	Hybrid engineered materials with high water-collecting efficiency inspired by Namib Desert beetles. Chemical Communications, 2016, 52, 6809-6812.	4.1	76
65	Outmatching superhydrophobicity: bio-inspired re-entrant curvature for mighty superamphiphobicity in air. Journal of Materials Chemistry A, 2017, 5, 14480-14507.	10.3	75
66	Electrochemical route to prepare polyaniline-coated meshes with controllable pore size for switchable emulsion separation. Chemical Engineering Journal, 2016, 304, 115-120.	12.7	74
67	Understanding how surface chemistry and topography enhance fog harvesting based on the superwetting surface with patterned hemispherical bulges. Journal of Colloid and Interface Science, 2018, 525, 234-242.	9.4	74
68	A comparison between superhydrophobic surfaces (SHS) and slippery liquid-infused porous surfaces (SLIPS) in application. Nanoscale, 2020, 12, 22398-22424.	5.6	72
69	Insitu growth of durable superhydrophobic Mgâ€“Al layered double hydroxides nanoplatelets on aluminum alloys for corrosion resistance. Journal of Alloys and Compounds, 2018, 767, 382-391.	5.5	69
70	Nonflammable superhydrophobic paper with biomimetic layered structure exhibiting boiling-water resistance and repairable properties for emulsion separation. Journal of Materials Chemistry A, 2018, 6, 7042-7052.	10.3	67
71	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
72	A simple route to transform normal hydrophilic cloth into a superhydrophobicâ€“superhydrophilic hybrid surface. Journal of Materials Chemistry A, 2014, 2, 7845-7852.	10.3	63

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73	Facile modification of NH2-MIL-125(Ti) to enhance water stability for efficient adsorptive removal of crystal violet from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 541, 58-67.	4.7	62
74	Liquid infused surfaces with anti-icing properties. Nanoscale, 2019, 11, 22615-22635.	5.6	61
75	Recent advances in atmosphere water harvesting: Design principle, materials, devices, and applications. Nano Today, 2021, 40, 101283.	11.9	61
76	Multifunctional superamphiphobic SiO2 coating for crude oil transportation. Chemical Engineering Journal, 2018, 334, 1584-1593.	12.7	59
77	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
78	Creation of a multifunctional superhydrophobic coating for composite insulators. Chemical Engineering Journal, 2018, 352, 774-781.	12.7	57
79	Dual superlyophobic surfaces with superhydrophobicity and underwater superoleophobicity. Journal of Materials Chemistry A, 2018, 6, 11682-11687.	10.3	56
80	Graphene oxideâ€"iron complex: synthesis, characterization and visible-light-driven photocatalysis. Journal of Materials Chemistry A, 2013, 1, 644-650.	10.3	55
81	An all-water-based system for robust superhydrophobic surfaces. Journal of Colloid and Interface Science, 2018, 519, 130-136.	9.4	55
82	A facile approach to achieve bioinspired PDMS@Fe₃O₄ fabric with switchable wettability for liquid transport and water collection. Journal of Materials Chemistry A, 2018, 6, 22741-22748.	10.3	53
83	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
84	Superhydrophobic materials used for anti-icing Theory, application, and development. IScience, 2021, 24, 103357.	4.1	52
85	The wettability of gas bubbles: from macro behavior to nano structures to applications. Nanoscale, 2018, 10, 19659-19672.	5.6	50
86	Durable Lubricant-Impregnated Surfaces for Water Collection under Extremely Severe Working Conditions. ACS Applied Materials & Interfaces, 2019, 11, 35949-35958.	8.0	49
87	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
88	Superhydrophobic sand: a hope for desert water storage and transportation projects. Journal of Materials Chemistry A, 2017, 5, 6416-6423.	10.3	48
89	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
90	Tomato-lotus inspired edible superhydrophobic artificial lotus leaf. Chemical Engineering Journal, 2020, 400, 125883.	12.7	48

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91	Multibioinspired Janus membranes with superwettable performance for unidirectional transportation and fog collection. Chemical Engineering Journal, 2021, 404, 126515.	12.7	48
92	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
93	A robust transparent and anti-fingerprint superhydrophobic film. Chemical Communications, 2013, 49, 7310.	4.1	47
94	Versatile superamphiphobic cotton fabrics fabricated by coating with SiO 2 /FOTS. Applied Surface Science, 2017, 426, 271-278.	6.1	47
95	Graphene and its derivative composite materials with special wettability: Potential application in oil-water separation. Carbon, 2021, 172, 647-681.	10.3	47
96	Design of underwater superoleophobic TiO2 coatings with additional photo-induced self-cleaning properties by one-step route bio-inspired from fish scales. Applied Physics Letters, 2014, 104, .	3.3	46
97	Eco-friendly functionalized superhydrophobic recycled paper with enhanced flame-retardancy. Journal of Colloid and Interface Science, 2016, 477, 74-82.	9.4	46
98	Durable superhydrophobic and underwater superoleophobic cotton fabrics growing zinc oxide nanoarrays for application in separation of heavy/light oil and water mixtures as need. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 115-126.	4.7	46
99	A fog-collecting surface mimicking the Namib beetle: its water collection efficiency and influencing factors. Nanoscale, 2020, 12, 6921-6936.	5.6	46
100	pH-responsive smart fabrics with controllable wettability in different surroundings. RSC Advances, 2014, 4, 14684.	3.6	45
101	Green fabrication of coloured superhydrophobic paper from native cotton cellulose. Journal of Colloid and Interface Science, 2017, 497, 284-289.	9.4	45
102	Hierarchical fibers for water collection inspired by spider silk. Nanoscale, 2019, 11, 15448-15463.	5.6	45
103	Stable underwater superoleophobic conductive polymer coated meshes for high-efficiency oilâ€“water separation. RSC Advances, 2015, 5, 33077-33082.	3.6	44
104	Effect of surface topography and wettability on the Leidenfrost effect. Nanoscale, 2017, 9, 6219-6236.	5.6	44
105	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
106	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
107	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
108	Flexible 3D porous superhydrophobic composites for oil-water separation and organic solvent detection. Materials and Design, 2020, 196, 109144.	7.0	43

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109	Efficient Fog Harvesting Based on 1D Copper Wire Inspired by the Plant Pitaya. Langmuir, 2018, 34, 15259-15267.	3.5	42
110	Surface topographies of biomimetic superamphiphobic materials: design criteria, fabrication and performance. Advances in Colloid and Interface Science, 2019, 269, 87-121.	14.7	41
111	Bioinspired silica-based superhydrophobic materials. Applied Surface Science, 2017, 426, 1-18.	6.1	40
112	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
113	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
114	Modifier-free fabrication of durable and multifunctional superhydrophobic paper with thermostability and anti-microbial property. Chemical Engineering Journal, 2018, 346, 94-103.	12.7	39
115	Onâ€Demand Coalescence and Splitting of Liquid Marbles and Their Bioapplications. Advanced Science, 2019, 6, 1802033.	11.2	39
116	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
117	Janus Membranes with Asymmetric Wettability Applied in Oil/Water Emulsion Separations. Advanced Sustainable Systems, 2021, 5, 2000253.	5.3	39
118	Design of a Venation-like Patterned Surface with Hybrid Wettability for Highly Efficient Fog Harvesting. Nano Letters, 2022, 22, 3104-3111.	9.1	39
119	Why so strong for the lotus leaf?. Applied Physics Letters, 2008, 93, .	3.3	38
120	Facile Fabrication of Multifunctional Hybrid Silk Fabrics with Controllable Surface Wettability and Laundering Durability. ACS Applied Materials & Interfaces, 2016, 8, 5653-5660.	8.0	38
121	Biomimetic self-slippery and transferable transparent lubricant-infused functional surfaces. Nanoscale, 2018, 10, 19879-19889.	5.6	38
122	Robust Mg(OH)2/epoxy resin superhydrophobic coating applied to composite insulators. Applied Surface Science, 2019, 466, 126-132.	6.1	38
123	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
124	Engineering NiO sensitive materials and its ultra-selective detection of benzaldehyde. Journal of Colloid and Interface Science, 2016, 467, 192-202.	9.4	36
125	Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. Chemical Communications, 2019, 55, 10820-10843.	4.1	36
126	Bio-inspired encapsulation and functionalization of living cells with artificial shells. Colloids and Surfaces B: Biointerfaces, 2014, 113, 483-500.	5.0	35

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127	Superhydrophobic Plant Leaves: The Variation in Surface Morphologies and Wettability during the Vegetation Period. Langmuir, 2019, 35, 1047-1053.	3.5	35
128	Superomniphobic Silk Fibroin/Ag Nanowires Membrane for Flexible and Transparent Electronic Sensor. ACS Applied Materials & Interfaces, 2020, 12, 10039-10049.	8.0	35
129	Bio-inspired Fog Harvesting Materials: Basic Research and Bionic Potential Applications. Journal of Bionic Engineering, 2021, 18, 501-533.	5.0	35
130	Recent advances in slippery liquid-infused surfaces with unique properties inspired by nature. Bio-Design and Manufacturing, 2021, 4, 506-525.	7.7	35
131	Iron Impurities as the Active Sites for Peroxidase-like Catalytic Reaction on Graphene and Its Derivatives. ACS Applied Materials & Interfaces, 2015, 7, 15403-15413.	8.0	34
132	Robust superhydrophobic tungsten oxide coatings with photochromism and UV durability properties. Applied Surface Science, 2016, 387, 412-418.	6.1	34
133	Bioinspired fish-scale-like stainless steel surfaces with robust underwater anti-crude-oil-fouling and self-cleaning properties. Separation and Purification Technology, 2018, 202, 111-118.	7.9	34
134	Stable Janus superhydrophilic/hydrophobic nickel foam for directional water transport. Journal of Colloid and Interface Science, 2018, 509, 346-352.	9.4	34
135	Comparison of the enhanced gas sensing properties of tin dioxide samples doped with different catalytic transition elements. Journal of Colloid and Interface Science, 2015, 448, 265-274.	9.4	33
136	Anisotropic wetting properties on various shape of parallel grooved microstructure. Journal of Colloid and Interface Science, 2015, 453, 142-150.	9.4	33
137	Computational investigation of the lubrication behaviors of dioxides and disulfides of molybdenum and tungsten in vacuum. Friction, 2017, 5, 23-31.	6.4	33
138	A facile method to mussel-inspired superhydrophobic thiol-textiles@polydopamine for oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 554, 253-260.	4.7	33
139	Robust and self-repairing superamphiphobic coating from all-water-based spray. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 645-651.	4.7	33
140	Drop/bubble transportation and controllable manipulation on patterned slippery lubricant infused surfaces with tunable wettability. Soft Matter, 2019, 15, 6803-6810.	2.7	33
141	Overview of the development of slippery surfaces: Lubricants from presence to absence. Advances in Colloid and Interface Science, 2022, 301, 102602.	14.7	33
142	Thermo-responsive hollow silica microgels with controlled drug release properties. Colloids and Surfaces B: Biointerfaces, 2013, 111, 7-14.	5.0	32
143	Well-dispersed PEDOT:PSS/graphene nanocomposites synthesized by in situ polymerization as counter electrodes for dye-sensitized solar cells. Journal of Materials Science, 2015, 50, 2148-2157.	3.7	32
144	Ag nanoparticles loading of polypyrrole-coated superwetting mesh for on-demand separation of oil-water mixtures and catalytic reduction of aromatic dyes. Journal of Colloid and Interface Science, 2018, 527, 187-194.	9.4	32

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145	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
146	Fabrication of functional superhydrophobic engineering materials via an extremely rapid and simple route. Chemical Communications, 2015, 51, 6493-6495.	4.1	31
147	Simple fabrication of a multifunctional inorganic paper with high efficiency separations for both liquids and particles. Journal of Materials Chemistry A, 2018, 6, 21524-21531.	10.3	31
148	Fog collection behavior of bionic surface and large fog collector: A review. Advances in Colloid and Interface Science, 2022, 300, 102583.	14.7	31
149	Characterization of Micro-Morphology and Wettability of Lotus Leaf, Waterlily Leaf and Biomimetic ZnO Surface. Journal of Bionic Engineering, 2015, 12, 88-97.	5.0	30
150	Design and understanding of a high-performance gas sensing material based on copper oxide nanowires exfoliated from a copper mesh substrate. Journal of Materials Chemistry A, 2015, 3, 20477-20481.	10.3	30
151	Bio-inspired one-pot route to prepare robust and repairable micro-nanoscale superhydrophobic coatings. Journal of Colloid and Interface Science, 2017, 498, 182-193.	9.4	30
152	Biomimetic superwettable materials with structural colours. Chemical Communications, 2017, 53, 12990-13011.	4.1	30
153	Organic Media Superwettability: On-Demand Liquid Separation by Controlling Surface Chemistry. ACS Applied Materials & Interfaces, 2018, 10, 37634-37642.	8.0	30
154	Hybrid Hydrophilicâ€"Hydrophobic CuO@TiO₂-Coated Copper Mesh for Efficient Water Harvesting. Langmuir, 2020, 36, 64-73.	3.5	30
155	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
156	Reed leaf-inspired anisotropic slippery lubricant-infused surface for water collection and bubble transportation. Chemical Engineering Journal, 2021, 411, 128495.	12.7	30
157	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
158	Superhydrophobic sand grains structured with aligned Cu(OH) 2 nano-needles for efficient oily water treatment. Materials and Design, 2017, 135, 377-384.	7.0	29
159	How does substrate roughness affect the service life of a superhydrophobic coating?. Applied Surface Science, 2018, 441, 491-499.	6.1	29
160	A facile and effective method to improve the dispersibility of WS2 nanosheets in PAO8 for the tribological performances. Tribology International, 2018, 118, 60-70.	5.9	29
161	Novel fabrication of polymer/carbon nanotube composite coated Janus paper for humidity stress sensor. Journal of Colloid and Interface Science, 2018, 532, 517-526.	9.4	29
162	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

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163	Water deteriorates lubricating oils: removal of water in lubricating oils using a robust superhydrophobic membrane. Nanoscale, 2020, 12, 11703-11710.	5.6	29
164	Facile Fabrication of Superhydrophobic and Underwater Superoleophobic Coatings. ACS Applied Nano Materials, 2018, 1, 4894-4899.	5.0	28
165	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
166	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
167	Robust, heat-resistant and multifunctional superhydrophobic coating of carbon microflowers with molybdenum trioxide nanoparticles. Journal of Colloid and Interface Science, 2017, 506, 649-658.	9.4	27
168	A hybrid bioinspired fiber trichome with special wettability for water collection, friction reduction and self-cleaning. Nanoscale, 2019, 11, 11774-11781.	5.6	27
169	A facile coating with water-repellent and flame-retardant properties on cotton fabric. New Journal of Chemistry, 2019, 43, 10183-10189.	2.8	27
170	Preparation and performance testing of superhydrophobic flame retardant cotton fabric. New Journal of Chemistry, 2019, 43, 5839-5848.	2.8	27
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