

Recent developments in bio-inspired special wettability

Chemical Society Reviews

39, 3240

DOI: 10.1039/b917112f

Citation Report

#	ARTICLE	IF	CITATIONS
2	Fabrication of functional colloidal photonic crystals based on well-designed latex particles. <i>Journal of Materials Chemistry</i> , 2011, 21, 14113.	6.7	67
3	Island brushes to control adhesion of water in oil droplets on planar surfaces. <i>Soft Matter</i> , 2011, 7, 7013.	1.2	13
4	Recent progress on surface pattern fabrications based on monolayer colloidal crystal templates and related applications. <i>Nanoscale</i> , 2011, 3, 2768.	2.8	62
5	Preparation of superhydrophobic cauliflower-like silica nanospheres with tunable water adhesion. <i>Journal of Materials Chemistry</i> , 2011, 21, 6962.	6.7	84
6	Superhydrophobic cotton fabrics prepared by one-step water-based sol-gel coating. <i>Journal of the Textile Institute</i> , 0, , 1-9.	1.0	8
7	Micro/nanoscale hierarchical structured ZnO mesh film for separation of water and oil. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14606.	1.3	185
8	Preparation of stable superhydrophobic mesh with a biomimetic hierarchical structure. <i>Soft Matter</i> , 2011, 7, 9867.	1.2	45
9	Superoleophobic textured aluminum surfaces. <i>New Journal of Chemistry</i> , 2011, 35, 2422.	1.4	107
10	Controlling Volume Shrinkage in Soft Lithography through Heat-Induced Cross-Linking of Patterned Nanofibers. <i>Journal of the American Chemical Society</i> , 2011, 133, 2840-2843.	6.6	39
11	Solvothermal Synthesis of Nanoporous Polymer Chalk for Painting Superhydrophobic Surfaces. <i>Langmuir</i> , 2011, 27, 12585-12590.	1.6	66
12	Multifunctional Integration: From Biological to Bio-Inspired Materials. <i>ACS Nano</i> , 2011, 5, 6786-6790.	7.3	163
13	Wetting Behavior of Oleophobic Polymer Coatings Synthesized from Fluorosurfactant-Macromers. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2022-2030.	4.0	89
14	Superhydrophobic Fiber Mats by Electrodeposition of Fluorinated Poly(3,4-ethyleneoxythiathiophene). <i>Journal of the American Chemical Society</i> , 2011, 133, 15627-15634.	6.6	121
15	Wetting and Dewetting Transitions on Hierarchical Superhydrophobic Surfaces. <i>Langmuir</i> , 2011, 27, 7502-7509.	1.6	154
16	A Self-Templated Etching Route to Surface-Rough Silica Nanoparticles for Superhydrophobic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1269-1276.	4.0	80
17	Fabrication of Superhydrophobic CuO Surfaces with Tunable Water Adhesion. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4726-4729.	1.5	152
18	Spray-coated superhydrophobic coatings with regenerability. <i>New Journal of Chemistry</i> , 2011, 35, 881.	1.4	42
19	Metallic surfaces with special wettability. <i>Nanoscale</i> , 2011, 3, 825.	2.8	348

#	ARTICLE	IF	CITATIONS
20	Nanoparticle decorated fibrous silica membranes exhibiting biomimetic superhydrophobicity and highly flexible properties. RSC Advances, 2011, 1, 1482.	1.7	66
21	The Frontier of Inorganic Synthesis and Preparative Chemistry (I)â€”Biomimetic Synthesis. , 2011, , 525-553.		3
22	A Biomimetic Approach for Creating Thermally Stable Polyimide-coated Honeycomb Films. Chemistry Letters, 2011, 40, 597-599.	0.7	7
23	Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. Nano Today, 2011, 6, 510-530.	6.2	417
24	Spherical silica micro/nanomaterials with hierarchical structures: Synthesis and applications. Nanoscale, 2011, 3, 3984.	2.8	174
25	Multiple aspects of the interaction of biomacromolecules with inorganic surfaces. Advanced Drug Delivery Reviews, 2011, 63, 1186-1209.	6.6	148
26	A novel fabrication of superhydrophobic surfaces for universal applicability. Applied Physics A: Materials Science and Processing, 2011, 105, 861-866.	1.1	8
27	The superhydrophobicity of polymer surfaces: Recent developments. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1203-1217.	2.4	151
28	â€œClingingâ€”Microdropletâ€”Patterning Upon Highâ€”Adhesion, Pillarâ€”Structured Silicon Substrates. Advanced Functional Materials, 2011, 21, 3297-3307.	7.8	61
29	Tunable wettability of carbon nanotube/poly (É-caprolactone) hybrid films. Applied Surface Science, 2011, 257, 9152-9157.	3.1	11
30	Bio-inspired design of multiscale structures for function integration. Nano Today, 2011, 6, 155-175.	6.2	655
31	Hydrophobic/superhydrophobic oxidized metal surfaces showing negligible contact angle hysteresis. Journal of Colloid and Interface Science, 2011, 353, 582-587.	5.0	86
32	A novel strategy to assemble colloidal gold nanoparticles at the waterâ€”air interface by the vapor of formic acid. Journal of Colloid and Interface Science, 2011, 359, 536-541.	5.0	31
33	Papillae mimetic hairy composite spheres towards lotus leaf effect coatings. Polymer, 2011, 52, 597-601.	1.8	20
34	Facile creation of bio-inspired superhydrophobic Ce-based metallic glass surfaces. Applied Physics Letters, 2011, 99, .	1.5	47
35	Adhesion Mechanism of Water Droplets on Hierarchically Rough Superhydrophobic Rose Petal Surface. Journal of Nanomaterials, 2011, 2011, 1-6.	1.5	64
36	Reversible switching between superhydrophobic states on a hierarchically structured surface. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10210-10213.	3.3	247
37	Air-directed attachment of coccoid bacteria to the surface of superhydrophobic lotus-like titanium. Biofouling, 2012, 28, 539-550.	0.8	125

#	ARTICLE	IF	CITATIONS
38	The Novel Wetting Behavior of Periodic $\text{TiO}_2/\text{SnO}_2$ Nanostructures. Materials Transactions, 2012, 53, 191-194.	0.4	1
39	Facile Method for Modulating the Profiles and Periods of Self-Ordered Three-Dimensional Alumina Taper-Nanopores. ACS Applied Materials & Interfaces, 2012, 4, 5678-5683.	4.0	47
40	Tunable Surface Nanoporosity by Electropolymerization of N -alkyl- ϵ -ethylenedioxy pyrroles With Different Alkyl Chain Lengths. Macromolecular Chemistry and Physics, 2012, 213, 2492-2497.	1.1	25
41	Superhydrophobic gecko feet with high adhesive forces towards water and their bio-inspired materials. Nanoscale, 2012, 4, 768-772.	2.8	313
42	Controlled nanoscale diffusion-limited chemical etching for releasing polystyrene nanocones from recyclable alumina templates. Chemical Communications, 2012, 48, 11322.	2.2	11
43	Tailoring ordered taper-nanopore arrays by combined nanosphere self-assembling, imprinting, anodizing and etching. Chemical Communications, 2012, 48, 5100.	2.2	15
44	Superhydrophobic hollow spheres by electrodeposition of fluorinated poly(3,4-ethylenedithiopyrrole). RSC Advances, 2012, 2, 10899.	1.7	21
45	Factors Affecting the Spontaneous Motion of Condensate Drops on Superhydrophobic Copper Surfaces. Langmuir, 2012, 28, 6067-6075.	1.6	154
46	Tunable Water Adhesion on Titanium Oxide Surfaces with Different Surface Structures. ACS Applied Materials & Interfaces, 2012, 4, 5737-5741.	4.0	30
47	Surface Structuration (Micro and/or Nano) Governed by the Fluorinated Tail Lengths toward Superoleophobic Surfaces. Langmuir, 2012, 28, 186-192.	1.6	60
48	pH-Controllable Water Permeation through a Nanostructured Copper Mesh Film. ACS Applied Materials & Interfaces, 2012, 4, 5826-5832.	4.0	52
49	Effect of a Rupturing Encapsulated Bubble in Inducing the Detachment of a Drop. Langmuir, 2012, 28, 17656-17665.	1.6	5
50	Smart surfaces with switchable superoleophilicity and superoleophobicity in aqueous media: toward controllable oil/water separation. NPG Asia Materials, 2012, 4, e8-e8.	3.8	441
51	Controlling uni-directional wetting via surface chemistry and morphology. Soft Matter, 2012, 8, 11704.	1.2	18
52	Stable superhydrophobic coatings from thiol-ligand nanocrystals and their application in oil/water separation. Journal of Materials Chemistry, 2012, 22, 9774.	6.7	231
53	Photo-induced properties of non-annealed anatase TiO_2 mesoporous film prepared by anodizing in the hot phosphate/glycerol electrolyte. Applied Surface Science, 2012, 258, 9810-9815.	3.1	11
54	Terminating Marine Methane Bubbles by Superhydrophobic Sponges. Advanced Materials, 2012, 24, 5884-5889.	11.1	113
55	Rebounding Droplet-Droplet Collisions on Superhydrophobic Surfaces: from the Phenomenon to Droplet Logic. Advanced Materials, 2012, 24, 5738-5743.	11.1	67

#	ARTICLE	IF	CITATIONS
57	Multifunctional superhydrophobic composite films from a synergistic self-organization process. <i>Journal of Materials Chemistry</i> , 2012, 22, 109-114.	6.7	30
58	Recent developments in superhydrophobic surfaces with unique structural and functional properties. <i>Soft Matter</i> , 2012, 8, 11217.	1.2	342
59	Biomimicry via Electrospinning. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012, 37, 94-114.	6.8	100
60	A new method for producing "Lotus Effect" on a biomimetic shark skin. <i>Journal of Colloid and Interface Science</i> , 2012, 388, 235-242.	5.0	101
61	Functionalized porous microparticles of nanofibrillated cellulose for biomimetic hierarchically structured superhydrophobic surfaces. <i>RSC Advances</i> , 2012, 2, 2882.	1.7	60
62	Recent Progress in Preparation of Superhydrophobic Surfaces: A Review. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2012, 02, 76-94.	0.2	97
63	Recent progress of double-structural and functional materials with special wettability. <i>Journal of Materials Chemistry</i> , 2012, 22, 799-815.	6.7	175
64	Superhydrophobic nanofiber arrays and flower-like structures of electrodeposited conducting polymers. <i>Soft Matter</i> , 2012, 8, 9110.	1.2	44
65	Bio-inspired special wetting surfaces via self-assembly. <i>Science China Chemistry</i> , 2012, 55, 2327-2333.	4.2	37
66	Sensitive sandwich ELISA based on a gold nanoparticle layer for cancer detection. <i>Analyst</i> , The, 2012, 137, 1779.	1.7	106
67	Photo-induced water-oil separation based on switchable superhydrophobicity/superhydrophilicity and underwater superoleophobicity of the aligned ZnO nanorod array-coated mesh films. <i>Journal of Materials Chemistry</i> , 2012, 22, 19652.	6.7	347
68	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. <i>Langmuir</i> , 2012, 28, 17404-17409.	1.6	55
69	One-Step Process for Superhydrophobic Metallic Surfaces by Wire Electrical Discharge Machining. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3685-3691.	4.0	93
70	Recent developments in polymeric superoleophobic surfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1209-1224.	2.4	219
71	Transparent superhydrophobic/superhydrophilic TiO ₂ -based coatings for self-cleaning and anti-fogging. <i>Journal of Materials Chemistry</i> , 2012, 22, 7420.	6.7	441
72	Superomniphobic Magnetic Microtextures with Remote Wetting Control. <i>Journal of the American Chemical Society</i> , 2012, 134, 12916-12919.	6.6	114
73	Bio-Inspired Self-Cleaning Surfaces. <i>Annual Review of Materials Research</i> , 2012, 42, 231-263.	4.3	427
74	Biomimetic Modification of Polymeric Surfaces: A Promising Pathway for Tuning of Wetting and Adhesion. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 743-760.	1.7	32

#	ARTICLE	IF	CITATIONS
75	Microdroplet Growth Mechanism during Water Condensation on Superhydrophobic Surfaces. <i>Langmuir</i> , 2012, 28, 7720-7729.	1.6	176
76	Rapid Synthesis of Wettability Gradient on Copper for Improved Dropwise Condensation. <i>Advanced Engineering Materials</i> , 2012, 14, 491-496.	1.6	16
77	Bioinspired Electrospun Knotted Microfibers for Fog Harvesting. <i>ChemPhysChem</i> , 2012, 13, 1153-1156.	1.0	102
78	Bio-inspired variable structural color materials. <i>Chemical Society Reviews</i> , 2012, 41, 3297.	18.7	772
79	Investigation of the effect of dual-size coatings on the hydrophobicity of cotton surface. <i>Cellulose</i> , 2012, 19, 1031-1040.	2.4	23
80	Optoelectrowettability conversion on superhydrophobic CdS QDs sensitized TiO ₂ nanotubes. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 1-7.	5.0	17
81	Fabrication of biomimetic high performance antireflective and antifogging film by spin-coating. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 89-95.	5.0	18
82	Anisotropic Wetting Surfaces with One-dimensional and Directional Structures: Fabrication Approaches, Wetting Properties and Potential Applications. <i>Advanced Materials</i> , 2012, 24, 1287-1302.	11.1	277
83	Preparation of superhydrophobic silica nanoparticles by microwave assisted sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 8-13.	1.1	13
84	Robust superhydrophilic coatings by electropolymerization of sulfonated pyrrole. <i>Journal of Applied Polymer Science</i> , 2013, 127, 257-260.	1.3	5
85	Optimum conditions for fabricating superhydrophobic surface on copper plates via controlled surface oxidation and dehydration processes. <i>Applied Surface Science</i> , 2013, 280, 898-902.	3.1	25
86	Facile strategy for fabrication of transparent superhydrophobic coatings on the surface of paper. <i>RSC Advances</i> , 2013, 3, 15571.	1.7	35
87	Construction of "smart" surfaces with polymer functionalized silica nanoparticles. <i>Polymer Chemistry</i> , 2013, 4, 1038-1047.	1.9	25
88	A highly safe and inflame retarding aramid lithium ion battery separator by a papermaking process. <i>Solid State Ionics</i> , 2013, 245-246, 49-55.	1.3	55
89	Superhydrophobic surfaces from 3,4-propylenedioxythiophene (ProDOT) derivatives. <i>European Polymer Journal</i> , 2013, 49, 2267-2274.	2.6	20
91	Preparation of Superoleophobic and Superhydrophobic Titanium Surfaces via an Environmentally Friendly Electrochemical Etching Method. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 102-109.	3.2	113
92	Robust superhydrophobicity of hierarchical ZnO hollow microspheres fabricated by two-step self-assembly. <i>Nano Research</i> , 2013, 6, 726-735.	5.8	60
93	Control of the water adhesion on hydrophobic micropillars by spray coating technique. <i>Colloid and Polymer Science</i> , 2013, 291, 401-407.	1.0	29

#	ARTICLE	IF	CITATIONS
94	Surface wetting processing on BNNT films by selective plasma modes. <i>Science Bulletin</i> , 2013, 58, 3403-3408.	1.7	8
95	Preparation of superhydrophobic silver nano coatings with feather-like structures by electroless galvanic deposition. <i>Science Bulletin</i> , 2013, 58, 1887-1891.	1.7	11
96	Super liquid-repellent properties of electrodeposited hydrocarbon and fluorocarbon copolymers. <i>RSC Advances</i> , 2013, 3, 10848.	1.7	12
97	Water-Enabled Visual Detection of DNA. <i>Journal of the American Chemical Society</i> , 2013, 135, 16268-16271.	6.6	12
98	Fabrication of superhydrophobic surfaces via CaCO ₃ mineralization mediated by poly(glutamic acid). <i>Journal of Solid State Chemistry</i> , 2013, 199, 338-343.	1.4	6
99	Durability of hydrophobic coatings for superhydrophobic aluminum oxide. <i>Applied Surface Science</i> , 2013, 282, 73-76.	3.1	23
100	Self-ordered hard anodization in malonic acid and its application in tailoring alumina taper-nanopores with continuously tunable periods in the range of 290-490nm. <i>Electrochimica Acta</i> , 2013, 112, 327-332.	2.6	23
101	A Superamphiphobic Macroporous Silicone Monolith with Marshmallow-like Flexibility. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10788-10791.	7.2	122
102	Nanoparticles assembly-induced special wettability for bio-inspired materials. <i>Particuology</i> , 2013, 11, 361-370.	2.0	22
103	pH- and Voltage-Switchable Superhydrophobic Surfaces by Electro-Copolymerization of EDOT Derivatives Containing Carboxylic Acids and Long Alkyl Chains. <i>ChemPhysChem</i> , 2013, 14, 2529-2533.	1.0	33
104	Patterned photonic crystals fabricated by inkjet printing. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6048.	2.7	97
105	Influence of intrinsic oleophobicity and surface structuration on the superoleophobic properties of PEDOP films bearing two fluorinated tails. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2896.	5.2	37
106	Exotic Self-Organized Fullerene Materials Based on Uncommon Hydrophobic-Amphiphilic Approach. <i>Structure and Bonding</i> , 2013, , 1-21.	1.0	1
107	Analogy of morphology in electrodeposited hydrocarbon and fluorocarbon polymers. <i>RSC Advances</i> , 2013, 3, 647-652.	1.7	30
108	Bio-inspired superoleophobic and smart materials: Design, fabrication, and application. <i>Progress in Materials Science</i> , 2013, 58, 503-564.	16.0	513
109	Facile Synthesis of Marshmallow-like Macroporous Gels Usable under Harsh Conditions for the Separation of Oil and Water. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1986-1989.	7.2	408
110	Bioinspired Multifunctional Foam with Self-Cleaning and Oil/Water Separation. <i>Advanced Functional Materials</i> , 2013, 23, 2881-2886.	7.8	513
111	Bioinspired colloidal materials with special optical, mechanical, and cell-mimetic functions. <i>Journal of Materials Chemistry B</i> , 2013, 1, 251-264.	2.9	32

#	ARTICLE	IF	CITATIONS
112	Biomimetic hydrophobic surface fabricated by chemical etching method from hierarchically structured magnesium alloy substrate. <i>Applied Surface Science</i> , 2013, 280, 845-849.	3.1	95
113	Simple, robust and large-scale fabrication of superhydrophobic surfaces based on silica/polymer composites. <i>RSC Advances</i> , 2013, 3, 25670.	1.7	20
114	Hydrophobic surface to hold a water droplet by cholesterol-based organogel with solvent-tuned morphologies. <i>New Journal of Chemistry</i> , 2013, 37, 1201.	1.4	10
115	Nanoporous anodic aluminium oxide: Advances in surface engineering and emerging applications. <i>Progress in Materials Science</i> , 2013, 58, 636-704.	16.0	467
116	Towards directional assembly of hierarchical structures: aniline oligomers as the model precursors. <i>Nanoscale</i> , 2013, 5, 2620.	2.8	56
117	Polymer thin films for antireflection coatings. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2266.	2.7	78
118	Self-assembly of nanostructures towards transparent, superhydrophobic surfaces. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2955-2969.	5.2	246
119	Long-lived superhydrophobic surfaces. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4146.	5.2	288
120	Fusion of nacre, mussel, and lotus leaf: bio-inspired graphene composite paper with multifunctional integration. <i>Nanoscale</i> , 2013, 5, 5758.	2.8	59
121	Renewable and Superior Thermal-Resistant Cellulose-Based Composite Nonwoven as Lithium-Ion Battery Separator. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 128-134.	4.0	317
122	Plasmon-Enhanced Photocatalysis on Anisotropic Gold Nanorod Arrays. <i>ChemCatChem</i> , 2013, 5, 2973-2977.	1.8	15
123	Fabrication of high wettability gradient on copper substrate. <i>Applied Surface Science</i> , 2013, 280, 25-32.	3.1	62
124	Patterning of controllable surface wettability for printing techniques. <i>Chemical Society Reviews</i> , 2013, 42, 5184.	18.7	299
125	Preservation of Superhydrophobic and Superoleophobic Properties upon Wear Damage. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 485-488.	4.0	181
126	Electrospinning of multilevel structured functional micro-/nanofibers and their applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7290.	5.2	299
127	Shear Distortion and Failure of Capillary Bridges. <i>Wetting Information Beyond Contact Angle Analysis</i> . <i>Langmuir</i> , 2013, 29, 7776-7781.	1.6	13
128	Insights into support wettability in tuning catalytic performance in the oxidation of aliphatic alcohols to acids. <i>Chemical Communications</i> , 2013, 49, 6623.	2.2	47
129	Development of Functional Polymer Surfaces with Controlled Wettability. <i>Langmuir</i> , 2013, 29, 9277-9290.	1.6	73

#	ARTICLE	IF	CITATIONS
130	Superoleophobic surfaces with short fluorinated chains?. <i>Soft Matter</i> , 2013, 9, 5982.	1.2	108
131	Influence of long alkyl spacers in the elaboration of superoleophobic surfaces with short fluorinated chains. <i>RSC Advances</i> , 2013, 3, 5556.	1.7	33
132	Polystyrene/octadecyltrichlorosilane superhydrophobic coatings with hierarchical morphology. <i>Polymer Chemistry</i> , 2013, 4, 246-249.	1.9	43
133	Freeze Fracture Approach to Directly Visualize Wetting Transitions on Nanopatterned Superhydrophobic Silicon Surfaces: More than a Proof of Principle. <i>Langmuir</i> , 2013, 29, 913-919.	1.6	18
134	Recent advances in designing superhydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 1-18.	5.0	609
135	Straightforward Oxidation of a Copper Substrate Produces an Underwater Superoleophobic Mesh for Oil/Water Separation. <i>ChemPhysChem</i> , 2013, 14, 3489-3494.	1.0	91
136	Fabrication of Antireflective Compound Eyes by Imprinting. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12799-12803.	4.0	52
137	Bioinspired Multifunctional Janus Particles for Droplet Manipulation. <i>Journal of the American Chemical Society</i> , 2013, 135, 54-57.	6.6	156
138	Wetting states on structured immiscible liquid coated surfaces. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	17
139	Fog-Harvesting Potential of Lubricant-Impregnated Electrospun Nanomats. <i>Langmuir</i> , 2013, 29, 13081-13088.	1.6	104
140	Biomimetic Superhydrophobic Surface of High Adhesion Fabricated with Micronano Binary Structure on Aluminum Alloy. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8907-8914.	4.0	70
141	Moisture Condensation Behavior of Hierarchically Carbon Nanotube-Grafted Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11115-11122.	4.0	8
142	Superhydrophobic Surface-Enhanced Raman Scattering Platform Fabricated by Assembly of Ag Nanocubes for Trace Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11409-11418.	4.0	110
143	A Heat-Resistant Silica Nanoparticle Enhanced Polysulfonamide Nonwoven Separator for High-Performance Lithium Ion Battery. <i>Journal of the Electrochemical Society</i> , 2013, 160, A769-A774.	1.3	46
144	Droplet condensation on polymer surfaces: A review. <i>Turkish Journal of Chemistry</i> , 2013, , .	0.5	7
145	Spray-Coated Metal Hexadecanoate-Based Coatings with Robust Superhydrophobicity and Repairability. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 1342-1346.	1.3	1
147	Hydrophobicâ€“hydrophilic dichotomy of the butterfly proboscis. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130336.	1.5	68
148	Bioinspired tilt-angle fabricated structure gradient fibers: micro-drops fast transport in a long-distance. <i>Scientific Reports</i> , 2013, 3, 2927.	1.6	69

#	ARTICLE	IF	CITATIONS
149	Fabrication of Self-Standing Silver Nanoplate Arrays by Seed-Decorated Electrochemical Route and Their Structure-Induced Properties. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	1.5	13
150	Silver-Coated Rose Petal: Green, Facile, Low-Cost and Sustainable Fabrication of a SERS Substrate with Unique Superhydrophobicity and High Efficiency. <i>Advanced Optical Materials</i> , 2013, 1, 56-60.	3.6	102
152	Mineral-Coated Polymer Membranes with Superhydrophilicity and Underwater Superoleophobicity for Effective Oil/Water Separation. <i>Scientific Reports</i> , 2013, 3, 2776.	1.6	305
153	Visualization of contact line motion on hydrophobic textures. <i>Surface Innovations</i> , 2013, 1, 84-91.	1.4	11
155	Surface Structure and Wetting Characteristics of Collembola Cuticles. <i>PLoS ONE</i> , 2014, 9, e86783.	1.1	34
156	Surface modification through self-assembled microrod networks. <i>Surface Engineering</i> , 2014, 30, 172-176.	1.1	1
157	Chirality-Driven Wettability Switching and Mass Transfer. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 930-932.	7.2	39
158	Kinetics of Droplet Wetting Mode Transitions on Grooved Surfaces: Forward Flux Sampling. <i>Langmuir</i> , 2014, 30, 15442-15450.	1.6	20
159	Superhydrophobic metallic glass surface with superior mechanical stability and corrosion resistance. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	106
160	Regular Metal Sulfide Microstructure Arrays Contributed by Ambient-Connected Gas Matrix Trapped on Superhydrophobic Surface. <i>Advanced Functional Materials</i> , 2014, 24, 7007-7013.	7.8	16
161	Biologically Inspired Biophotonic Surfaces with Self-Antireflection. <i>Small</i> , 2014, 10, 2558-2563.	5.2	30
162	Multiple levels hydrophobic modification of polymeric substrates by UV-grafting polymerization with TFEMA as monomer. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1059-1067.	2.5	15
163	25th Anniversary Article: Artificial Carbonate Nanocrystals and Layered Structural Nanocomposites Inspired by Nacre: Synthesis, Fabrication and Applications. <i>Advanced Materials</i> , 2014, 26, 163-188.	11.1	226
164	Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions. <i>Advanced Functional Materials</i> , 2014, 24, 2721-2726.	7.8	46
165	Thermodynamics of (Nano)interfaces. , 2014, , 1-31.		4
166	Construction of biomimetic smart nanochannels for confined water. <i>National Science Review</i> , 2014, 1, 144-156.	4.6	58
167	A electro-deposition process for fabrication of biomimetic super-hydrophobic surface and its corrosion resistance on magnesium alloy. <i>Electrochimica Acta</i> , 2014, 125, 395-403.	2.6	242
168	Superhydrophobicity: Is it really better than hydrophobicity on anti-corrosion?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 445, 75-78.	2.3	42

#	ARTICLE	IF	CITATIONS
169	Peanut Leaf Inspired Multifunctional Surfaces. <i>Small</i> , 2014, 10, 294-299.	5.2	107
170	A facile method for imparting superoleophobicity to polymer substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1129-1133.	1.1	8
171	Super-non-wettable surfaces: A review. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 448, 93-106.	2.3	144
172	Chemical and Physical Pathways for the Preparation of Superoleophobic Surfaces and Related Wetting Theories. <i>Chemical Reviews</i> , 2014, 114, 2694-2716.	23.0	466
173	Phototunable Underwater Oil Adhesion of Micro/Nanoscale Hierarchical Structured ZnO Mesh Films with Switchable Contact Mode. <i>Advanced Functional Materials</i> , 2014, 24, 536-542.	7.8	67
174	Fly-Eye Inspired Superhydrophobic Anti-Fogging Inorganic Nanostructures. <i>Small</i> , 2014, 10, 3001-3006.	5.2	290
175	Fabrication of patterned surfaces that exhibit variable wettability ranging from superhydrophobicity to high hydrophilicity by laser irradiation. <i>Applied Surface Science</i> , 2014, 288, 619-624.	3.1	38
176	Trapping of drops by wetting defects. <i>Nature Communications</i> , 2014, 5, 3559.	5.8	84
177	A Rapid One-Step Fabrication of Patternable Superhydrophobic Surfaces Driven by Marangoni Instability. <i>Langmuir</i> , 2014, 30, 2828-2834.	1.6	31
178	Superhydrophobic flow channel surface and its impact on PEM fuel cell performance. <i>International Journal of Low-Carbon Technologies</i> , 2014, 9, 225-236.	1.2	14
179	Photoreduction of Graphene Oxides: Methods, Properties, and Applications. <i>Advanced Optical Materials</i> , 2014, 2, 10-28.	3.6	235
180	Recent progress in antireflection and self-cleaning technology – From surface engineering to functional surfaces. <i>Progress in Materials Science</i> , 2014, 61, 94-143.	16.0	350
181	Wettability of conducting polymers: From superhydrophilicity to superoleophobicity. <i>Progress in Polymer Science</i> , 2014, 39, 656-682.	11.8	213
182	Spider-web-like fiber toward highly oleophobic fluorinated materials with low bioaccumulative potential. <i>Reactive and Functional Polymers</i> , 2014, 74, 46-51.	2.0	21
183	Water-repellent perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20017-20021.	5.2	65
184	Wettability of Electrospun Films of Microphase-Separated Block Copolymers with 3,3,3-Trifluoropropyl Substituted Siloxane Segments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26671-26682.	1.5	31
185	Study of Transitions between Wetting States on Microcavity Arrays by Optical Transmission Microscopy. <i>Langmuir</i> , 2014, 30, 12960-12968.	1.6	46
186	Tunable hydrodynamic characteristics in microchannels with biomimetic superhydrophobic (lotus) Tj ETQq1 1 0.784314 rgBT/Overlo	1.2	39

#	ARTICLE	IF	CITATIONS
187	Electrochemical fabrication of transparent nickel hydroxide nanostructures with tunable superhydrophobicity/superhydrophilicity for 2D microchannels application. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1985-1990.	5.2	19
188	Maintaining the pluripotency of mouse embryonic stem cells on gold nanoparticle layers with nanoscale but not microscale surface roughness. <i>Nanoscale</i> , 2014, 6, 6959.	2.8	54
189	A superior thermostable and nonflammable composite membrane towards high power battery separator. <i>Nano Energy</i> , 2014, 10, 277-287.	8.2	77
190	Magnetically driven super durable superhydrophobic polyester materials for oil/water separation. <i>Polymer Chemistry</i> , 2014, 5, 2382.	1.9	90
191	Superhydrophobic surface enhanced Raman scattering sensing using Janus particle arrays realized by site-specific electrochemical growth. <i>Journal of Materials Chemistry C</i> , 2014, 2, 542-547.	2.7	41
192	Water collection abilities of green bristlegrass bristle. <i>RSC Advances</i> , 2014, 4, 40837-40840.	1.7	35
193	Antifogging properties and mechanism of micron structure in <i>Ephemera pictiventris</i> McLachlan compound eyes. <i>Science Bulletin</i> , 2014, 59, 2039-2044.	1.7	9
194	Electrospun hybrid fibers with substantial filler contents formed through kinetically arrested phase separation in liquid jet. <i>RSC Advances</i> , 2014, 4, 27683-27686.	1.7	7
195	Superhydrophobic Ag nanostructures on polyaniline membranes with strong SERS enhancement. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22867-22873.	1.3	21
196	Lasting and self-healing superhydrophobic surfaces by coating of polystyrene/SiO ₂ nanoparticles and polydimethylsiloxane. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15001-15007.	5.2	175
197	Radical crossover reactions of a dynamic covalent polymer brush for reversible hydrophilicity control. <i>Polymer</i> , 2014, 55, 4586-4592.	1.8	12
198	Facile Spray-Coating Process for the Fabrication of Tunable Adhesive Superhydrophobic Surfaces with Heterogeneous Chemical Compositions Used for Selective Transportation of Microdroplets with Different Volumes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8868-8877.	4.0	163
199	High-resolution liquid patterns via three-dimensional droplet shape control. <i>Nature Communications</i> , 2014, 5, 4975.	5.8	85
200	Superhydrophobic mesoporous silica nanospheres achieved via a high level of organo-functionalization. <i>Chemical Communications</i> , 2014, 50, 10830.	2.2	26
201	Interfacial Material System Exhibiting Superwettability. <i>Advanced Materials</i> , 2014, 26, 6872-6897.	11.1	448
202	Formation of AlOOH and silica composite hierarchical nanostructures thin film by sol-gel dip-coating for superhydrophobic surface with high adhesion force. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 511-517.	1.1	7
203	Solvent-controlled growth of silicone nanofilaments. <i>RSC Advances</i> , 2014, 4, 33424-33430.	1.7	7
204	Complete reconfiguration of dendritic gold. <i>Nanoscale</i> , 2014, 6, 833-841.	2.8	7

#	ARTICLE	IF	CITATIONS
205	Bio-Inspired Titanium Dioxide Materials with Special Wettability and Their Applications. <i>Chemical Reviews</i> , 2014, 114, 10044-10094.	23.0	489
206	A facile procedure to fabricate nano calcium carbonate polymer-based superhydrophobic surfaces. <i>New Journal of Chemistry</i> , 2014, 38, 2245-2249.	1.4	22
207	Special wettable materials for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2445-2460.	5.2	1,052
208	Energy materials: What strategies did nature pursue?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2052-2062.	0.8	3
209	Omniphobic Membrane for Robust Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2014, 1, 443-447.	3.9	288
210	Facile synthesis of nano cauliflower and nano broccoli like hierarchical superhydrophobic composite coating using PVDF/carbon soot particles via gelation technique. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 111-121.	5.0	48
211	Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18531-18538.	5.2	84
212	From macro to micro: structural biomimetic materials by electrospinning. <i>RSC Advances</i> , 2014, 4, 39704-39724.	1.7	55
213	Biomimetic and bioinspired membranes: Preparation and application. <i>Progress in Polymer Science</i> , 2014, 39, 1668-1720.	11.8	174
214	A low-cost filler-dissolved process for fabricating super-hydrophobic poly(dimethylsiloxane) surfaces with either lotus or petal effect. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 055021.	1.5	7
215	Multifunctional Superhydrophobic Surfaces Templated From Innately Microstructured Hydrogel Matrix. <i>Nano Letters</i> , 2014, 14, 4803-4809.	4.5	183
216	Facile and Large-Scale Fabrication of a Cactus-Inspired Continuous Fog Collector. <i>Advanced Functional Materials</i> , 2014, 24, 3235-3240.	7.8	233
217	Hydrophobic modification of fibers by pressure-induced phase-separation coupled with ultrasonic irradiation in high-pressure liquid carbon dioxide. <i>Chemical Engineering Journal</i> , 2014, 246, 106-113.	6.6	11
218	Fullerenes and Other Carbon-Rich Nanostructures. <i>Structure and Bonding</i> , 2014, , .	1.0	6
219	Patterning Superhydrophobic Surfaces To Realize Anisotropic Wettability and To Transport Micro-Liter-Sized Droplets to Any Type of Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12399-12404.	1.5	28
220	Recent progress in fabrication and characterisation of hierarchical biomimetic superhydrophobic structures. <i>RSC Advances</i> , 2014, 4, 22053.	1.7	163
221	Microcones and Nanograss: Toward Mechanically Robust Superhydrophobic Surfaces. <i>Langmuir</i> , 2014, 30, 4342-4350.	1.6	87
222	Photoresponsive superhydrophobic surfaces from one-pot solution spin coating mediated by polydopamine. <i>RSC Advances</i> , 2014, 4, 24973.	1.7	22

#	ARTICLE	IF	CITATIONS
223	Fabrication of corrosion resistant superhydrophobic surface with self-cleaning property on magnesium alloy and its mechanical stability. <i>Surface and Coatings Technology</i> , 2014, 253, 205-213.	2.2	106
224	Superhydrophobic and colorful copper surfaces fabricated by picosecond laser induced periodic nanostructures. <i>Applied Surface Science</i> , 2014, 311, 461-467.	3.1	149
225	Fabrication of a super-hydrophobic surface on metal using laser ablation and electrodeposition. <i>Applied Surface Science</i> , 2014, 288, 222-228.	3.1	111
226	Superhydrophobic Surfaces Developed by Mimicking Hierarchical Surface Morphology of Lotus Leaf. <i>Molecules</i> , 2014, 19, 4256-4283.	1.7	300
230	Photo- and pH-responsive Electrospun Polymer Films: Wettability and Protein Adsorption Characteristics. <i>Chemistry Letters</i> , 2015, 44, 1368-1370.	0.7	1
231	Antifouling on Gecko's Feet Inspired Fibrillar Surfaces: Evolving from Land to Marine and from Liquid Repellency to Algae Resistance. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500257.	1.9	56
234	Construction and Functions of Cyclodextrin-Based 1D Supramolecular Strands and their Secondary Assemblies. <i>Advanced Materials</i> , 2015, 27, 5403-5409.	11.1	67
235	Bioinspired, Stimuli-Responsive, Multifunctional Superhydrophobic Surface with Directional Wetting, Adhesion, and Transport of Water. <i>Advanced Functional Materials</i> , 2015, 25, 5047-5056.	7.8	117
236	Wrinkled Graphene Monoliths as Superabsorbing Building Blocks for Superhydrophobic and Superhydrophilic Surfaces. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15165-15169.	7.2	45
237	Ultrafiltration of oily waste water: Contribution of surface roughness in membrane properties and fouling characteristics of polyacrylonitrile membranes. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 2031-2042.	0.9	28
238	Magnetically Induced Fog Harvesting via Flexible Conical Arrays. <i>Advanced Functional Materials</i> , 2015, 25, 5967-5971.	7.8	142
239	A Facile, Multifunctional, Transparent, and Superhydrophobic Coating Based on a Nanoscale Porous Structure Spontaneously Assembled from Branched Silica Nanoparticles. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500201.	1.9	40
241	Fabrication of hydrophobic surfaces using copper electrodeposition and oxidation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 877-882.	1.1	25
242	Biomimetic Transferable Surface for a Real Time Control over Wettability and Photoerasable Writing with Water Drop Lens. <i>Scientific Reports</i> , 2015, 4, 7407.	1.6	11
243	Polysiloxane/multiwalled carbon nanotubes nanocomposites and their applications as ultrastable, healable and superhydrophobic coatings. <i>Carbon</i> , 2015, 93, 648-658.	5.4	66
244	Preparation of vinyl silica-based organic/inorganic nanocomposites and superhydrophobic polyester surfaces from it. <i>Colloid and Polymer Science</i> , 2015, 293, 2359-2371.	1.0	27
245	A Polyborate Coated Cellulose Composite Separator for High Performance Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A834-A838.	1.3	32
246	Stepwise anodic electrodeposition of nanoporous NiOOH/Ni(OH) ₂ with controllable wettability and its applications. <i>HKIE Transactions</i> , 2015, 22, 202-211.	1.9	4

#	ARTICLE	IF	CITATIONS
247	Super-hydrophobic surface transferred from BTL using one step replication. , 2015, , .		0
248	A Self-Cleaning TiO ₂ Nanosisal-like Coating toward Disposing Nanobiochips of Cancer Detection. ACS Nano, 2015, 9, 9284-9291.	7.3	76
249	Synthetic Surfaces with Robust and Tunable Underwater Superoleophobicity. Advanced Functional Materials, 2015, 25, 1672-1681.	7.8	104
250	Green synthesis of zinc oxysulfide quantum dots using aegle marmelos fruit extract and their cytotoxicity in HeLa cells. RSC Advances, 2015, 5, 16815-16820.	1.7	18
251	Sustainable, heat-resistant and flame-retardant cellulose-based composite separator for high-performance lithium ion battery. Scientific Reports, 2014, 4, 3935.	1.6	203
252	Micro/nano-structured superhydrophobic surfaces in the biomedical field: part II: applications overview. Nanomedicine, 2015, 10, 271-297.	1.7	81
253	Superhydrophobic nanocoatings: from materials to fabrications and to applications. Nanoscale, 2015, 7, 5922-5946.	2.8	322
254	Hydrophobic Materials Based on Fluorocarbofunctional Spherosilicates. Silicon, 2015, 7, 201-209.	1.8	33
255	Bioinspired Superwettability from Fundamental Research to Practical Applications. Angewandte Chemie - International Edition, 2015, 54, 3387-3399.	7.2	611
256	Corrosion inhibition of biomimetic super-hydrophobic electrodeposition coatings on copper substrate. Corrosion Science, 2015, 94, 190-196.	3.0	188
257	Natural Superhydrophobic Surfaces. , 2015, , 7-25.		3
258	Recent developments in superhydrophobic graphene and graphene-related materials: from preparation to potential applications. Nanoscale, 2015, 7, 7101-7114.	2.8	144
259	Biomimicking Topographic Elastomeric Petals (E-Petals) for Omnidirectional Stretchable and Printable Electronics. Advanced Science, 2015, 2, 1400021.	5.6	96
260	Perfluoropolyether/poly(ethylene glycol) triblock copolymers with controllable self-assembly behaviour for highly efficient anti-bacterial materials. RSC Advances, 2015, 5, 64170-64179.	1.7	13
261	Biomimetic superhydrophobic surfaces by combining mussel-inspired adhesion with lotus-inspired coating. Nanotechnology, 2015, 26, 335602.	1.3	39
262	Anisotropic wetting properties on various shape of parallel grooved microstructure. Journal of Colloid and Interface Science, 2015, 453, 142-150.	5.0	33
263	Burst behavior at a capillary tip: Effect of low and high surface tension. Journal of Colloid and Interface Science, 2015, 455, 1-5.	5.0	18
264	Wettability behavior of special microscale ZnO nail-coated mesh films for oil-water separation. Journal of Colloid and Interface Science, 2015, 458, 79-86.	5.0	48

#	ARTICLE	IF	CITATIONS
265	Bioinspired Surfaces with Superwettability: New Insight on Theory, Design, and Applications. <i>Chemical Reviews</i> , 2015, 115, 8230-8293.	23.0	1,292
266	Virus-inspired mimics: self-assembly of dendritic lipopeptides into arginine-rich nanovectors for improving gene delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7006-7010.	2.9	37
267	Ultrafast Spreading Effect Induced Rapid Cell Trapping into Porous Scaffold with Superhydrophilic Surface. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17545-17551.	4.0	13
268	Tuning the Wettability of Indium Oxide Nanowires from Superhydrophobic to Nearly Superhydrophilic: Effect of Oxygen-Related Defects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16026-16032.	1.5	33
269	The fabrication of superhydrophobic glass fiber-reinforced plastic surfaces with tunable adhesion based on hydrophobic silica nanoparticle aggregates. <i>Colloid and Polymer Science</i> , 2015, 293, 2815-2821.	1.0	3
270	Reversibly light-switchable wettability between superhydrophobicity and superhydrophilicity of hybrid ZnO/bamboo surfaces via alternation of UV irradiation and dark storage. <i>Progress in Organic Coatings</i> , 2015, 87, 155-160.	1.9	58
271	Superhydrophobic and oleophobic surfaces obtained by graft copolymerization of perfluoroalkyl ethyl acrylate onto SBR rubber. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 537-546.	2.3	34
272	Controlling of water wettability by structural and chemical modification of porous anodic alumina (PAA): Towards super-hydrophobic surfaces. <i>Surface and Coatings Technology</i> , 2015, 276, 464-470.	2.2	33
273	Axial piston pumps slippers with nanocoated surfaces to reduce friction. <i>International Journal of Fluid Power</i> , 0, , 1-10.	0.7	23
274	Superhydrophobic Surfaces Fabricated by Femtosecond Laser with Tunable Water Adhesion: From Lotus Leaf to Rose Petal. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9858-9865.	4.0	287
275	Excellent Structure-Based Multifunction of Morpho Butterfly Wings: A Review. <i>Journal of Bionic Engineering</i> , 2015, 12, 170-189.	2.7	113
276	Nanostructures in superhydrophobic Ti6Al4V hierarchical surfaces control wetting state transitions. <i>Soft Matter</i> , 2015, 11, 3806-3811.	1.2	35
277	Direct Insight into the Three-dimensional Internal Morphology of Solid-Liquid-Vapor Interfaces at Microscale. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4792-4795.	7.2	25
278	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9534-9545.	4.0	276
279	Enhancing orthopedic implant bioactivity: refining the nanotopography. <i>Nanomedicine</i> , 2015, 10, 1327-1341.	1.7	34
280	Synthesis and self-assembly of well-defined binary graft copolymer and its use in superhydrophobic cotton fabrics preparation. <i>RSC Advances</i> , 2015, 5, 46132-46145.	1.7	17
281	Area-selective microwrinkle formation on poly(dimethylsiloxane) by treatment with strong acid. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 167-174.	2.4	10
282	Nerve Guidance Conduits from Aligned Nanofibers: Improvement of Nerve Regeneration through Longitudinal Nanogrooves on a Fiber Surface. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7189-7196.	4.0	118

#	ARTICLE	IF	CITATIONS
283	Role of Flagella in Adhesion of <i>Escherichia coli</i> to Abiotic Surfaces. <i>Langmuir</i> , 2015, 31, 6137-6144.	1.6	96
284	Bio-inspired fabrication of copper oxide nanowire films with switchable wettability via a facile thermal oxidation method. <i>RSC Advances</i> , 2015, 5, 26107-26113.	1.7	11
285	A theoretical approach to the relationship between wettability and surface microstructures of epidermal cells and structured cuticles of flower petals. <i>Annals of Botany</i> , 2015, 115, 923-937.	1.4	13
286	Self-cleaning applications of TiO ₂ by photo-induced hydrophilicity and photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 396-428.	10.8	739
287	Fabrication of biomimetic patterns for high transmission and antifogging property. <i>RSC Advances</i> , 2015, 5, 28014-28018.	1.7	15
288	Bioinspired Multifunctional Au Nanostructures with Switchable Adhesion. <i>Langmuir</i> , 2015, 31, 10850-10858.	1.6	26
289	Femtosecond laser controlled wettability of solid surfaces. <i>Soft Matter</i> , 2015, 11, 8897-8906.	1.2	125
290	Bioinspired ribbed hair arrays with robust superhydrophobicity fabricated by micro/nanosphere lithography and plasma etching. <i>RSC Advances</i> , 2015, 5, 96404-96411.	1.7	23
291	Characterization of Multi-scale Morphology and Superhydrophobicity of Water Bamboo Leaves and Biomimetic Polydimethylsiloxane (PDMS) Replicas. <i>Journal of Bionic Engineering</i> , 2015, 12, 624-633.	2.7	27
292	Micro/nano hierarchical poly(acrylic acid)-grafted-poly(vinylidene fluoride) layer coated foam membrane for temperature-controlled separation of heavy oil/water. <i>Separation and Purification Technology</i> , 2015, 156, 207-214.	3.9	26
293	Multifunctional Engineering Aluminum Surfaces for Self-Propelled Anti-Condensation. <i>Advanced Engineering Materials</i> , 2015, 17, 961-968.	1.6	21
294	Bioinspired Hierarchical Surface Structures with Tunable Wettability for Regulating Bacteria Adhesion. <i>ACS Nano</i> , 2015, 9, 10664-10672.	7.3	219
295	Simulation analysis of a temperature sensor based on photonic crystal fiber filled with different shapes of nanowires. <i>Optik</i> , 2015, 126, 3687-3691.	1.4	14
296	Facile preparation of superamphiphobic epoxy resin/modified poly(vinylidene fluoride)/fluorinated ethylene propylene composite coating with corrosion/wear-resistance. <i>Applied Surface Science</i> , 2015, 357, 229-235.	3.1	38
297	Fabrication and corrosion resistance of superhydrophobic magnesium alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 561-570.	1.1	26
298	Boundary layer drag reduction research hypotheses derived from bio-inspired surface and recent advanced applications. <i>Micron</i> , 2015, 79, 59-73.	1.1	40
299	Superamphiphobic cotton fabrics with enhanced stability. <i>Applied Surface Science</i> , 2015, 356, 951-957.	3.1	42
300	Functional architectures based on self-assembly of bio-inspired dipeptides: Structure modulation and its photoelectronic applications. <i>Advances in Colloid and Interface Science</i> , 2015, 225, 177-193.	7.0	62

#	ARTICLE	IF	CITATIONS
301	Relationship between Wetting Hysteresis and Contact Time of a Bouncing Droplet on Hydrophobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20972-20978.	4.0	66
302	Surface wetting of superhydrophobic aluminum oxide nanostructures investigated using the fiber-optic spectrometer and quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 799-804.	4.0	12
303	Fabrication of mesoporous silica nanospheres with radially oriented mesochannels by microemulsion templating for adsorption and controlled release of aspirin. <i>RSC Advances</i> , 2015, 5, 6599-6606.	1.7	27
304	Emerging trends in superhydrophobic surface based magnetic materials: fabrications and their potential applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3224-3251.	5.2	90
305	Mussel-inspired tailoring of membrane wettability for harsh water treatment. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2650-2657.	5.2	175
306	Simple synthesis of smart magnetically driven fibrous films for remote controllable oil removal. <i>Nanoscale</i> , 2015, 7, 2625-2632.	2.8	66
307	Condensation heat transfer enhancement by surface modification on a monolithic copper heat sink. <i>Applied Thermal Engineering</i> , 2015, 75, 908-917.	3.0	31
308	Mimosa-inspired Design of a Flexible Pressure Sensor with Touch Sensitivity. <i>Small</i> , 2015, 11, 1886-1891.	5.2	312
309	Gecko-inspired but Chemically Switched Friction and Adhesion on Nanofibrillar Surfaces. <i>Small</i> , 2015, 11, 1131-1137.	5.2	32
310	Superhydrophilicity to superhydrophobicity transition of picosecond laser microstructured aluminum in ambient air. <i>Journal of Colloid and Interface Science</i> , 2015, 441, 1-9.	5.0	360
311	A transparent CNTs/TiO ₂ composite film with superhydrophobic and photocatalytic functions self-assembled by liquid-phase deposition. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 522-529.	2.0	18
312	A facile dip-coating approach to prepare SiO ₂ /fluoropolymer coating for superhydrophobic and superoleophobic fabrics with self-cleaning property. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	84
313	Bioinspired Engineering of Thermal Materials. <i>Advanced Materials</i> , 2015, 27, 428-463.	11.1	225
314	Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. <i>Chemical Communications</i> , 2015, 51, 1775-1794.	2.2	209
315	Self-assembly of alumina nanowires into controllable micro-patterns by laser-assisted solvent spreading: towards superwetting surfaces. <i>CrystEngComm</i> , 2015, 17, 540-545.	1.3	9
317	Effect of Nano-Texturing on Adhesion of Thermoplastic Resin against Textured Steel Plate. <i>Tribology Online</i> , 2016, 11, 159-167.	0.2	18
318	Superhydrophobic Coatings with Edible Materials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18664-18668.	4.0	172
319	Control of Polymer Phase Separation by Roughness Transfer Printing for 2D Microlens Arrays. <i>Small</i> , 2016, 12, 3788-3793.	5.2	9

#	ARTICLE	IF	CITATIONS
320	Recent Development of Durable and Self-Healing Surfaces with Special Wettability. <i>Macromolecular Rapid Communications</i> , 2016, 37, 463-485.	2.0	102
321	Rapid transfer of hierarchical microstructures onto biomimetic polymer surfaces with gradually tunable water adhesion from slippery to sticky superhydrophobicity. <i>Materials Research Express</i> , 2016, 3, 025011.	0.8	6
322	The butterfly proboscis as a fiber-based, self-cleaning, micro-fluidic system. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
323	Oxygen-Rich Enzyme Biosensor Based on Superhydrophobic Electrode. <i>Advanced Materials</i> , 2016, 28, 1477-1481.	11.1	134
324	Preparation and performance of aramid nanofiber membrane for separator of lithium ion battery. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	57
325	Fabrication of polysiloxane-modified polyurethane sponge as low-cost organics/water separation and selective absorption material. <i>Water Science and Technology</i> , 2016, 74, 1936-1945.	1.2	6
326	AFM study of excimer laser patterning of block-copolymer: Creation of ordered hierarchical, hybrid, or recessed structures. <i>Applied Surface Science</i> , 2016, 371, 203-212.	3.1	2
327	Fabrication of Namib Beetle Inspired Biomimetic Amphi-phobic Surfaces Using Adsorbed Water as a Monomer. <i>Procedia Engineering</i> , 2016, 141, 59-62.	1.2	11
328	Effect of biaxial tensile extension on superhydrophobicity of rayon knitted fabrics. <i>RSC Advances</i> , 2016, 6, 48155-48164.	1.7	10
329	Biomimetic multifunctional surfaces inspired from animals. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 27-50.	7.0	130
330	Ultra low water adhesive metal surface for enhanced corrosion protection. <i>RSC Advances</i> , 2016, 6, 40641-40649.	1.7	21
331	A novel combination approach for the preparation of superhydrophobic surface on copper and the consequent corrosion resistance. <i>Corrosion Science</i> , 2016, 110, 105-113.	3.0	167
332	Effect of hair morphology and elastic stiffness on the wetting properties of hairy surfaces. <i>Microelectronic Engineering</i> , 2016, 161, 74-81.	1.1	5
333	Centrifugation-Assisted Fog-Collecting Abilities of Metal-Foam Structures with Different Surface Wettabilities. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10005-10013.	4.0	23
334	Dialectics of nature in materials science: binary cooperative complementary materials. <i>Science China Materials</i> , 2016, 59, 239-246.	3.5	59
335	Boehmite Nanofiber-Shell Porous Monoliths for a Thermal Insulator under Low Vacuum Conditions. <i>Chemistry of Materials</i> , 2016, 28, 3237-3240.	3.2	25
336	Facile electrodeposition of superhydrophobic and oil-repellent thick layers on steel substrate. <i>Materials Letters</i> , 2016, 184, 243-247.	1.3	13
337	Surface forces between rough and topographically structured interfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 26, 9-16.	3.4	4

#	ARTICLE	IF	CITATIONS
338	Titanium Oxide/Silicon Moth-Eye Structures with Antireflection, p-n Heterojunctions, and Superhydrophilicity. <i>Langmuir</i> , 2016, 32, 10719-10724.	1.6	26
339	Halloysite Polymer Nanocomposites. <i>Developments in Clay Science</i> , 2016, , 509-553.	0.3	15
340	Biomimetic Multi-Functional Superamphiphobic FOTS-TiO ₂ Particles beyond Lotus Leaf. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27188-27198.	4.0	131
341	Naphthol-based macrocyclic receptors. <i>Tetrahedron Letters</i> , 2016, 57, 3978-3985.	0.7	38
342	Bioinspired polydopamine particles-assisted construction of superhydrophobic surfaces for oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 240-251.	5.0	100
343	Self-cleaning performance of superhydrophobic hybrid nanocomposite coatings on Al with excellent corrosion resistance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 214, 87-97.	1.7	15
344	Self-Assembly of Single-Sized and Binary Colloidal Particles at Air/Water Interface by Surface Confinement and Water Discharge. <i>Langmuir</i> , 2016, 32, 9582-9590.	1.6	70
345	Free-Standing, Flexible, Superomniphobic Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21962-21967.	4.0	59
346	Recent developments in polydopamine: an emerging soft matter for surface modification and biomedical applications. <i>Nanoscale</i> , 2016, 8, 16819-16840.	2.8	509
347	Plug-and-Coat Type Liquid Diode: Integrated Mesh with Janus Superwetting Properties. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600276.	1.9	32
348	Bioinspired Functional Surfaces for Technological Applications. <i>Journal of Molecular and Engineering Materials</i> , 2016, 04, 1640006.	0.9	16
349	Photoreversible Growth of Micropattern. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600528.	1.9	6
351	Deviation of sliding drops at a chemical step. <i>Soft Matter</i> , 2016, 12, 8268-8273.	1.2	15
352	Biomimetics studies of <i>Salvinia molesta</i> for fabrication. <i>Micro and Nano Letters</i> , 2016, 11, 291-294.	0.6	2
353	Fabrication of stable and corrosion-resisted super-hydrophobic film on Mg alloy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 351-358.	2.3	24
354	Biomimetic self-cleaning surfaces: synthesis, mechanism and applications. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160300.	1.5	86
355	Preparation and characterization of superhydrophobic composite coatings on a magnesium-lithium alloy. <i>RSC Advances</i> , 2016, 6, 90587-90596.	1.7	28
356	Synthesis of vertically aligned composite microcone membrane filter for water/oil separation. <i>Materials and Design</i> , 2016, 111, 9-16.	3.3	16

#	ARTICLE	IF	CITATIONS
357	Facile fabrication of superhydrophobic meshes with different water adhesion and their influence on oil/water separation. RSC Advances, 2016, 6, 90824-90830.	1.7	20
358	The fabrication and hydrophobic property of micro-nano patterned surface on magnesium alloy using combined sparking sculpture and etching route. Applied Surface Science, 2016, 389, 80-87.	3.1	18
359	Femtosecond laser ablated durable superhydrophobic PTFE films with micro-through-holes for oil/water separation: Separating oil from water and corrosive solutions. Applied Surface Science, 2016, 389, 1148-1155.	3.1	160
360	Fabrication of durable hydrophobic micropatterns on stainless steel using a hybrid irradiation process. Surface and Coatings Technology, 2016, 302, 535-542.	2.2	16
361	Diverging Effects of Topographical Continuity on the Wettability of a Rough Surface. ACS Applied Materials & Interfaces, 2016, 8, 29770-29778.	4.0	7
362	Superhydrophilic Coating Induced Temporary Conductivity for Low-Cost Coating and Patterning of Insulating Surfaces. Advanced Functional Materials, 2016, 26, 9018-9025.	7.8	25
363	The Influence of Structure Heights and Opening Angles of Micro- and Nanocones on the Macroscopic Surface Wetting Properties. Scientific Reports, 2016, 6, 21400.	1.6	47
364	Enhanced Power Generation of Oxygen-Reducing Biocathode with an Alternating Hydrophobic and Hydrophilic Surface. ACS Applied Materials & Interfaces, 2016, 8, 31995-32003.	4.0	15
365	Nitrogen-Doped Porous Carbon Derived from Malachium Aquaticum Biomass as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 220, 427-435.	2.6	73
366	Chapter 1 Multifunctional Coatings for Solar Energy Applications. , 2016, , 1-88.		0
367	Robust, self-healing, superhydrophobic coatings highlighted by a novel branched thiol-ene fluorinated siloxane nanocomposites. Composites Science and Technology, 2016, 137, 78-86.	3.8	67
368	Slippery Liquid-Infused Porous Surfaces that Prevent Microbial Surface Fouling and Kill Non-Adherent Pathogens in Surrounding Media: A Controlled Release Approach. Advanced Functional Materials, 2016, 26, 3599-3611.	7.8	132
369	Hydrophobic and high adhesive polyaniline layer of rectangular microtubes fabricated by a modified interfacial polymerization. Applied Surface Science, 2016, 379, 124-131.	3.1	10
370	Tunable hydrophobicity on fractal and micro-nanoscale hierarchical fracture surface of metallic glasses. Materials and Design, 2016, 95, 612-617.	3.3	15
371	Nano/Micro-Manufacturing of Bioinspired Materials: a Review of Methods to Mimic Natural Structures. Advanced Materials, 2016, 28, 6292-6321.	11.1	332
372	Tunable surface morphology of electrospun PMMA fiber using binary solvent. Applied Surface Science, 2016, 364, 516-521.	3.1	40
373	Developing hydrophobic and superhydrophobic TiO ₂ coatings by plasma spraying. Surface and Coatings Technology, 2016, 289, 29-36.	2.2	68
374	Fabrication of polyvinylidene fluoride tree-like nanofiber via one-step electrospinning. Materials and Design, 2016, 92, 95-101.	3.3	92

#	ARTICLE	IF	CITATIONS
375	Bioinspired Interfaces with Superwettability: From Materials to Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 1727-1748.	6.6	933
376	Self-cleaning MOF: realization of extreme water repellence in coordination driven self-assembled nanostructures. <i>Chemical Science</i> , 2016, 7, 2251-2256.	3.7	92
377	Understanding Controls on Wetting at Fluorinated Polyhedral Oligomeric Silsesquioxane/Polymer Surfaces. <i>Langmuir</i> , 2016, 32, 230-238.	1.6	11
378	Nanopatterned polymer brushes: conformation, fabrication and applications. <i>Nanoscale</i> , 2016, 8, 680-700.	2.8	63
379	Superhydrophobic, flexible and gas-permeable membrane prepared by a simple one-step vapor deposition. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1743-1748.	1.2	11
380	Rapid fabrication of angle-independent structurally colored films with a superhydrophobic property. <i>Dyes and Pigments</i> , 2016, 130, 202-208.	2.0	35
381	Bio-inspired Approaches in Various Engineering Domain. , 2016, , 177-194.		1
383	Precise cutting microstructured superhydrophobic surface. <i>Surface Engineering</i> , 2016, 32, 119-124.	1.1	3
384	Biomimetic water-collecting materials inspired by nature. <i>Chemical Communications</i> , 2016, 52, 3863-3879.	2.2	184
385	A rapid one-step process for the construction of corrosion-resistant bionic superhydrophobic surfaces. <i>Progress in Organic Coatings</i> , 2016, 100, 56-62.	1.9	44
386	Environmental Applications of Interfacial Materials with Special Wettability. <i>Environmental Science & Technology</i> , 2016, 50, 2132-2150.	4.6	273
387	Dopamine/Silica Nanoparticle Assembled, Microscale Porous Structure for Versatile Superamphiphobic Coating. <i>ACS Nano</i> , 2016, 10, 2910-2921.	7.3	107
388	Fabrication of novel superhydrophilic and underwater superoleophobic hierarchically structured ceramic membrane and its separation performance of oily wastewater. <i>Ceramics International</i> , 2016, 42, 8604-8612.	2.3	42
389	Tailoring re-entrant geometry in inverse colloidal monolayers to control surface wettability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6853-6859.	5.2	62
390	A high-voltage poly(methylethyl $\hat{\pm}$ -cyanoacrylate) composite polymer electrolyte for 5 V lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5191-5197.	5.2	76
391	A high performance three-phase enzyme electrode based on superhydrophobic mesoporous silicon nanowire arrays for glucose detection. <i>Nanoscale</i> , 2016, 8, 7391-7395.	2.8	32
392	Superhydrophobic fluorine-free hierarchical coatings produced by vacuum based method. <i>Materials Letters</i> , 2016, 167, 30-33.	1.3	11
393	Developing superhydrophobic and oleophobic nanostructure by a facile chemical transformation of zirconium hydroxide surface. <i>Applied Surface Science</i> , 2016, 363, 346-355.	3.1	20

#	ARTICLE	IF	CITATIONS
394	Bio-inspired multifunctional metallic glass. <i>Science China Chemistry</i> , 2016, 59, 271-276.	4.2	13
395	Asymmetric Superhydrophobic/Superhydrophilic Cotton Fabrics Designed by Spraying Polymer and Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 651-659.	4.0	171
396	A colloidoscope of colloid-based porous materials and their uses. <i>Chemical Society Reviews</i> , 2016, 45, 281-322.	18.7	256
397	Lotus effect in wetting and self-cleaning. <i>Biotribology</i> , 2016, 5, 31-43.	0.9	208
398	Superhydrophobic surfaces with photocatalytic activity under UV and visible light irradiation. <i>Catalysis Today</i> , 2016, 260, 32-38.	2.2	55
399	Facile and fast fabrication of superhydrophobic surface on magnesium alloy by one-step electrodeposition method. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 50, 50-56.	2.9	74
400	Facile silicification of plastic surface for bioassays. <i>Chemical Communications</i> , 2017, 53, 2134-2137.	2.2	7
401	Highly sticky surfaces made by electrospun polymer nanofibers. <i>RSC Advances</i> , 2017, 7, 5836-5842.	1.7	22
402	Preparation of SiO ₂ /PS superhydrophobic fibers with bionic controllable micro/nano structure via centrifugal spinning. <i>RSC Advances</i> , 2017, 7, 11041-11048.	1.7	27
404	Superhydrophobic sand: a hope for desert water storage and transportation projects. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6416-6423.	5.2	48
405	Femtosecond laser ablated durable superhydrophobic PTFE sheet for oil/water separation. , 2017, , .		2
406	Robust and Chemically Stable Superhydrophobic Composite Ceramic Coating Repellent Even to Hot Water. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601202.	1.9	25
407	A highly sensitive, flexible SERS sensor for malachite green detection based on Ag decorated microstructured PDMS substrate fabricated from Taro leaf as template. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 477-486.	4.0	174
408	A novel route for fabrication of the corrosion-resistant superhydrophobic surface by turning operation. <i>Surface and Coatings Technology</i> , 2017, 313, 294-298.	2.2	9
409	Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists. <i>Advances in Colloid and Interface Science</i> , 2017, 246, 217-274.	7.0	153
410	Stretching of viscoelastic drops in steady sliding. <i>Soft Matter</i> , 2017, 13, 3116-3124.	1.2	10
411	The rose petal effect and the role of advancing water contact angles for drop confinement. <i>Surface Topography: Metrology and Properties</i> , 2017, 5, 024001.	0.9	14
412	Transparent and Gas-Permeable Liquid Marbles for Culturing and Drug Sensitivity Test of Tumor Spheroids. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700185.	3.9	46

#	ARTICLE	IF	CITATIONS
413	Petal shaped nanostructures planted on array micro-patterns for superhydrophobicity and anti-icing applications. <i>Surface and Coatings Technology</i> , 2017, 319, 286-293.	2.2	24
414	A facile route for wettability regulation by modifying the submicron/nanoscale physical topography of porous films. <i>Surface and Coatings Technology</i> , 2017, 321, 90-96.	2.2	2
415	Electrospun Bead-On-String Hierarchical Fibers for Fog Harvesting Application. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700124.	1.7	48
416	Superoleophobic surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 4168-4217.	18.7	613
418	Facile fabrication of superhydrophobic coating based on polysiloxane emulsion. <i>Progress in Organic Coatings</i> , 2017, 102, 131-137.	1.9	26
419	Temperature Control of Mussel-Inspired Chemistry toward Hierarchical Superhydrophobic Surfaces for Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600727.	1.9	55
420	Efficient and Anisotropic Fog Harvesting on a Hybrid and Directional Surface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600801.	1.9	58
421	Antifibrinogen, Antireflective, Antifogging Surfaces with Biocompatible Nano-Ordered Hierarchical Texture Fabricated by Layer-by-Layer Self-Assembly. <i>Chemistry of Materials</i> , 2017, 29, 4745-4753.	3.2	62
422	The influence of femtosecond laser repetition rates and pulse numbers on the formation of micro/nano structures on stainless steel. <i>Journal of Alloys and Compounds</i> , 2017, 722, 235-241.	2.8	21
423	Magnetically actuated functional gradient nanocomposites for strong and ultra-durable biomimetic interfaces/surfaces. <i>Materials Horizons</i> , 2017, 4, 869-877.	6.4	28
424	Surface characteristics influencing bacterial adhesion to polymeric substrates. <i>RSC Advances</i> , 2017, 7, 14254-14261.	1.7	307
425	Preparation of superhydrophobic/oleophilic copper mesh for oil-water separation. <i>Applied Surface Science</i> , 2017, 412, 599-605.	3.1	106
426	A Strategy of Antifogging: Air-Trapped Hollow Microsphere Nanocomposites. <i>Chemistry of Materials</i> , 2017, 29, 2899-2905.	3.2	31
427	Tunable Wettability of Ferroelectric Lithium Niobate Surfaces: The Role of Engineered Microstructure and Tailored Metallic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6643-6649.	1.5	16
428	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. <i>Separation and Purification Technology</i> , 2017, 177, 71-85.	3.9	147
429	Nature-Inspired Electrochemical Energy Storage Materials and Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1601709.	10.2	119
430	Environmental stimuli-responsive self-repairing waterbased superhydrophobic coatings. <i>RSC Advances</i> , 2017, 7, 543-550.	1.7	40
431	Bioinspired Design of Underwater Superaerophobic and Superaerophilic Surfaces by Femtosecond Laser Ablation for Anti- or Capturing Bubbles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39863-39871.	4.0	162

#	ARTICLE	IF	CITATIONS
432	Controllable wettability and adhesion of superhydrophobic self-assembled surfaces based on a novel azobenzene derivative. <i>RSC Advances</i> , 2017, 7, 50403-50409.	1.7	7
433	Sustainable and Biodegradable Superhydrophobic Coating from Epoxidized Soybean Oil and ZnO Nanoparticles on Cellulosic Substrates for Efficient Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11440-11450.	3.2	110
434	Friction of Droplets Sliding on Microstructured Superhydrophobic Surfaces. <i>Langmuir</i> , 2017, 33, 13480-13489.	1.6	39
435	Low-maintenance superamphiphobic coating based on a smart two-layer self-healing network. <i>Surface and Coatings Technology</i> , 2017, 331, 97-106.	2.2	17
436	The role played by modified bioinspired surfaces in interfacial properties of biomaterials. <i>Biophysical Reviews</i> , 2017, 9, 683-698.	1.5	38
437	Exceptional control on physical properties of a polymeric material through alcoholic solvent-mediated environment-friendly Michael addition reaction. <i>Green Chemistry</i> , 2017, 19, 4527-4532.	4.6	17
438	Transparent smart surface with pH-induced wettability transition between superhydrophobicity and underwater superoleophobicity. <i>Materials and Design</i> , 2017, 135, 69-76.	3.3	27
439	Fabrication of anisotropic PTFE superhydrophobic surfaces using laser microprocessing and their self-cleaning and anti-icing behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 535, 8-15.	2.3	68
440	Functionalized few-layer black phosphorus with super-wettability towards enhanced reaction kinetics for rechargeable batteries. <i>Nano Energy</i> , 2017, 40, 576-586.	8.2	95
441	Honeybees have hydrophobic wings that enable them to fly through fog and dew. <i>Journal of Bionic Engineering</i> , 2017, 14, 549-556.	2.7	4
442	A biomimetic, multifunctional, superhydrophobic graphene film with self-sensing and fast recovery properties for microdroplet transportation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17325-17334.	5.2	40
443	Bio-Nanotechnology in High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1700592.	10.2	168
444	Fabrication of multi-scale periodic surface structures on Ti-6Al-4V by direct laser writing and direct laser interference patterning for modified wettability applications. <i>Optics and Lasers in Engineering</i> , 2017, 98, 134-142.	2.0	54
445	Metallic superhydrophobic surfaces via thermal sensitization. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	26
446	Remarkably simple achievement of superhydrophobicity, superhydrophilicity, underwater superoleophobicity, underwater superoleophilicity, underwater superaerophobicity, and underwater superaerophilicity on femtosecond laser ablated PDMS surfaces. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25249-25257.	5.2	147
447	Mimicking bug-like surface structures and their fluid transport produced by ultrashort laser pulse irradiation of steel. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	62
448	Strategic Formulation of Graphene Oxide Sheets for Flexible Monoliths and Robust Polymeric Coatings Embedded with Durable Bioinspired Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42354-42365.	4.0	26
449	Ultra-antireflective synthetic brochosomes. <i>Nature Communications</i> , 2017, 8, 1285.	5.8	101

#	ARTICLE	IF	CITATIONS
450	Nanotribological behavior of bioinspired textured surfaces with directional characteristics. <i>Wear</i> , 2017, 384-385, 151-158.	1.5	15
451	Synthesis of hierarchical flower-like particles and its application as super-hydrophobic coating. <i>Powder Technology</i> , 2017, 319, 408-414.	2.1	16
452	Innovative high-speed femtosecond laser nano-patterning for improved adhesive bonding of Ti6Al4V titanium alloy. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2017, 18, 101-106.	2.3	37
453	Facile electrochemical synthesis of anatase nano-architected titanium dioxide films with reversible superhydrophilic behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 203-211.	2.9	14
454	Electrospun poly-l-lactide scaffold for the controlled and targeted delivery of a synthetically obtained Diclofenac prodrug to treat actinic keratosis. <i>Acta Biomaterialia</i> , 2017, 52, 187-196.	4.1	19
455	A versatile route to polymer-reinforced, broadband antireflective and superhydrophobic thin films without high-temperature treatment. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 1-7.	5.0	38
456	Surface forces between rough and topographically structured interfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 27, 18-24.	3.4	33
457	Wettability regulated gram-negative bacterial adhesion on biomimetic hierarchical structures. <i>Chinese Chemical Letters</i> , 2017, 28, 813-817.	4.8	19
459	Collembola cuticles and the three-phase line tension. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1714-1722.	1.5	28
460	Hybrid nanomaterial: biocolloids. <i>Turkish Journal of Biology</i> , 2017, 41, 673-699.	2.1	3
461	Bio-Inspired Polymeric Structures with Special Wettability and Their Applications: An Overview. <i>Polymers</i> , 2017, 9, 725.	2.0	44
462	Directional Trans-Planar and Different In-Plane Water Transfer Properties of Composite Structured Bifacial Fabrics Modified by a Facile Three-Step Plasma Treatment. <i>Coatings</i> , 2017, 7, 132.	1.2	10
463	Preparation of Superhydrophobic Film on Ti Substrate and Its Anticorrosion Property. <i>Materials</i> , 2017, 10, 628.	1.3	19
464	Frontier of Inorganic Synthesis and Preparative Chemistry (I) Biomimetic Synthesis. , 2017, , 687-721.		6
465	Anti-corrosion Properties of a Bioinspired superhydrophobic surface on Stainless Steel. <i>International Journal of Electrochemical Science</i> , 2017, , 9855-9864.	0.5	11
466	Super-antiwetting with High Adhesion Property of Pitcher Plant. <i>Journal of Nanomedicine & Nanotechnology</i> , 2017, 08, .	1.1	0
467	Fabrication of Biomimetic and Bioinspired Membranes. , 2017, , .		2
468	Determination of the Point of Zero Charge pH of Borosilicate Glass Surface Using Capillary Imbibition Method. <i>International Journal of Chemistry</i> , 2017, 9, 67.	0.3	8

#	ARTICLE	IF	CITATIONS
469	Research progress of nano self - cleaning anti-fouling coatings. IOP Conference Series: Materials Science and Engineering, 2018, 284, 012016.	0.3	5
470	Ultrafast, Reversible Transition of Superwettability of Graphene Network and Controllable Underwater Oil Adhesion for Oil Microdroplet Transportation. Advanced Functional Materials, 2018, 28, 1706686.	7.8	44
471	Influence of Hydrostatic Pressure on the Corrosion Behavior of Superhydrophobic Surfaces on Bare and Oxidized Aluminum Substrates. Langmuir, 2018, 34, 5807-5812.	1.6	30
472	Nanoporous and lyophilic battery separator from regenerated eggshell membrane with effective suppression of dendritic lithium growth. Energy Storage Materials, 2018, 14, 258-266.	9.5	69
473	In Situ Formation of Slippery-Liquid-Infused Nanofibrous Surface for a Transparent Antifouling Endoscope Lens. ACS Biomaterials Science and Engineering, 2018, 4, 1871-1879.	2.6	19
474	Durable and robust transparent superhydrophobic glass surfaces fabricated by a femtosecond laser with exceptional water repellency and thermostability. Journal of Materials Chemistry A, 2018, 6, 9049-9056.	5.2	146
475	Construction of super - hydrophobic copper alloy surface by one - step mixed solution immersion method. IOP Conference Series: Earth and Environmental Science, 2018, 108, 022038.	0.2	3
476	Facile Fabrication of Electrohydrodynamic Micro/Nanostructures with High Aspect Ratio of a Conducting Polymer for Large-Scale Superhydrophilic/Superhydrophobic Surfaces. Macromolecular Materials and Engineering, 2018, 303, 1700361.	1.7	8
477	Facile fabrication of superhydrophobic copper mesh for oil/water separation and theoretical principle for separation design. Journal of the Taiwan Institute of Chemical Engineers, 2018, 87, 150-157.	2.7	28
478	Fabrication of p-n heterostructure ZnO/Si moth-eye structures: Antireflection, enhanced charge separation and photocatalytic properties. Applied Surface Science, 2018, 441, 40-48.	3.1	91
479	Tunable Microscale Porous Systems with Dynamic Liquid Interfaces. Small, 2018, 14, e1703283.	5.2	36
480	Effect of curvature on wetting and dewetting of proboscises of butterflies and moths. Royal Society Open Science, 2018, 5, 171241.	1.1	13
481	Stable superhydrophobic surface based on low-density polyethylene/ethylene-propylene diene terpolymer thermoplastic vulcanizate. Journal of Applied Polymer Science, 2018, 135, 46241.	1.3	5
482	Nanotextured Si surfaces derived from block-copolymer self-assembly with superhydrophobic, superhydrophilic, or superamphiphobic properties. RSC Advances, 2018, 8, 4204-4213.	1.7	24
483	Annealing dependent evolution of columnar nanostructures in RF magnetron sputtered PTFE films for hydrophobic applications. Materials Research Express, 2018, 5, 015312.	0.8	7
484	Fouling-resistant membranes for separation of oil-in-water emulsions. RSC Advances, 2018, 8, 5306-5311.	1.7	17
485	Porous superhydrophobic polymer/carbon composites for lightweight and self-cleaning EMI shielding application. Composites Science and Technology, 2018, 158, 86-93.	3.8	147
486	A Review on Superhydrophobic Polymer Nanocoatings: Recent Development and Applications. Industrial & Engineering Chemistry Research, 2018, 57, 2727-2745.	1.8	262

#	ARTICLE	IF	CITATIONS
487	Flourishing Bioinspired Antifogging Materials with Superwettability: Progresses and Challenges. <i>Advanced Materials</i> , 2018, 30, e1704652.	11.1	161
488	Superhydrophobic coatings with high repellency to daily consumed liquid foods based on food grade waxes. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 255-263.	5.0	75
490	Bioinspired 3D Surface-Enhanced Raman Spectroscopy Substrates for Surface Plasmon Driven Photooxidation Reactions: Role of Catalyst and Substrate in Controlling the Selectivity of Product Formation. <i>ChemCatChem</i> , 2018, 10, 975-979.	1.8	15
491	Femtosecond laser induced underwater superaerophilic and superaerophobic PDMS sheets with through microholes for selective passage of air bubbles and further collection of underwater gas. <i>Nanoscale</i> , 2018, 10, 3688-3696.	2.8	87
492	Stimuli-Responsive Bioinspired Materials for Controllable Liquid Manipulation: Principles, Fabrication, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705128.	7.8	66
493	Superhydrophobic structures on 316L stainless steel surfaces machined by nanosecond pulsed laser. <i>Precision Engineering</i> , 2018, 52, 266-275.	1.8	95
494	Rational design of materials interface at nanoscale towards intelligent oil-water separation. <i>Nanoscale Horizons</i> , 2018, 3, 235-260.	4.1	262
495	Antifogging and Frost-Resisting Polymeric Surfaces. <i>Advances in Polymer Science</i> , 2018, , 185-214.	0.4	6
496	Mist harvesting using bioinspired polydopamine coating and microfabrication technology. <i>Desalination</i> , 2018, 429, 111-118.	4.0	80
497	Efficiently texturing hierarchical epoxy layer for smart superhydrophobic surfaces with excellent durability and exceptional stability exposed to fire. <i>Chemical Engineering Journal</i> , 2018, 348, 212-223.	6.6	68
498	"Fish-scale"-mimicked stretchable and robust oil-wettability that performs in various practically relevant physically/chemically severe scenarios. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22027-22036.	5.2	19
499	Recent biomedical applications of bio-sourced materials. <i>Bio-Design and Manufacturing</i> , 2018, 1, 26-44.	3.9	13
500	Chemically Robust Superhydrophobic Poly(vinylidene fluoride) Films with Grafting Crosslinkable Fluorinated Silane. <i>Macromolecular Research</i> , 2018, 26, 493-499.	1.0	4
501	Fabrication of superhydrophilic and underwater superoleophobic metal mesh by laser treatment and its application. <i>Materials Research Express</i> , 2018, 5, 045013.	0.8	4
502	A smart membrane with antifouling capability and switchable oil wettability for high-efficiency oil/water emulsions separation. <i>Journal of Membrane Science</i> , 2018, 555, 69-77.	4.1	84
503	Facile fabrication of hydrogel coated membrane for controllable and selective oil-in-water emulsion separation. <i>Soft Matter</i> , 2018, 14, 2649-2654.	1.2	32
504	A Review of Femtosecond-Laser-Induced Underwater Superoleophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701370.	1.9	95
505	Anti-fingerprint properties of engineering surfaces: a review. <i>Surface Engineering</i> , 2018, 34, 85-120.	1.1	51

#	ARTICLE	IF	CITATIONS
506	A stable 3D sol-gel network with dangling fluoroalkyl chains and rapid self-healing ability as a long-lived superhydrophobic fabric coating. <i>Chemical Engineering Journal</i> , 2018, 334, 598-610.	6.6	80
507	Bioinspired surface functionalization of metallic biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 90-105.	1.5	146
508	Surface hydrophobic modification of polymers with fluorodiazomethanes. <i>Materials Letters</i> , 2018, 210, 295-297.	1.3	17
509	A one-step hydrothermal process to fabricate superhydrophobic hydroxyapatite coatings and determination of their properties. <i>Surface and Coatings Technology</i> , 2018, 334, 84-89.	2.2	31
510	Facile formation of super-hydrophobic nickel coating on magnesium alloy with improved corrosion resistance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 500-505.	2.3	69
511	Duty cycle dependent chemical structure and wettability of RF pulsed plasma copolymers of acrylic acid and octafluorocyclobutane. <i>Applied Surface Science</i> , 2018, 436, 411-418.	3.1	10
512	Contact angle measurement of natural materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 324-330.	2.5	136
513	Polyacrylamide-Modified Polyester Fabric with Easy-Cleaning for Efficient Oil/Water Separation. <i>AATCC Journal of Research</i> , 2018, 5, 1-6.	0.3	7
514	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1707415.	7.8	206
515	Biomimetic structure design and construction of cactus-like MoS ₂ /Bi ₁₉ Cl ₃ S ₂₇ photocatalysts for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21404-21409.	5.2	21
516	Recent Hydrophobic Metal-Organic Frameworks and Their Applications. <i>Materials</i> , 2018, 11, 2250.	1.3	45
517	Icephobic Strategies and Materials with Superwettability: Design Principles and Mechanism. <i>Langmuir</i> , 2018, 34, 15425-15444.	1.6	108
518	Magnetic-Responsive Superwetting Surface. <i>Biologically-inspired Systems</i> , 2018, , 183-203.	0.4	3
519	Thermal-Responsive Superwetting Surface. <i>Biologically-inspired Systems</i> , 2018, , 81-106.	0.4	0
520	Photo-Responsive Superwetting Surface. <i>Biologically-inspired Systems</i> , 2018, , 37-56.	0.4	1
521	Transparent Grafted Zwitterionic Copolymer Coatings That Exhibit Both Antifogging and Self-Cleaning Properties. <i>ACS Omega</i> , 2018, 3, 17743-17750.	1.6	21
522	Parahydrophobic and Nanostructured Poly(3,4-ethylenedioxyppyrrrole) and Poly(3,4-propylenedioxyppyrrrole) Films with Hyperbranched Alkyl Chains. <i>ACS Omega</i> , 2018, 3, 12428-12436.	1.6	3
523	Advanced colloidal lithography: From patterning to applications. <i>Nano Today</i> , 2018, 22, 36-61.	6.2	120

#	ARTICLE	IF	CITATIONS
524	Superhydrophobic Film Coatings for Corrosion Inhibition. <i>Interface Science and Technology</i> , 2018, , 133-184.	1.6	3
525	Preparation of anticoagulant PyC biomaterials with super-hydrophobic surface. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 125-131.	0.7	2
526	Electrochemically induced phase separation and in situ formation of mesoporous structures in ionic liquid mixtures. <i>Science Advances</i> , 2018, 4, eaau9663.	4.7	6
527	A Geologic Architecture Systemâ€”Inspired Microâ€”Nanoâ€”Heterostructure Design for Highâ€”Performance Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1802388.	10.2	65
528	Electrospinning: A versatile strategy for mimicking natural creatures. <i>Composites Communications</i> , 2018, 10, 175-185.	3.3	34
529	Bioactive Hydrogel Marbles. <i>Scientific Reports</i> , 2018, 8, 15215.	1.6	12
530	Oil/water separation based on natural materials with super-wettability: recent advances. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25140-25163.	1.3	119
531	Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. <i>Materials Science and Engineering C</i> , 2018, 93, 1104-1115.	3.8	27
532	Controlling the Wetting State With Bio-Mimetic Hierarchical Conical Microstructures. , 2018, , .		0
533	Biological and chemical sensing applications based on special wettable surfaces. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 183-194.	5.8	30
534	Towards the development of superhydrophobic carbon nanomaterial coatings on wood. <i>Progress in Organic Coatings</i> , 2018, 125, 23-31.	1.9	35
535	Hierarchical Polymer Structures Using Templates and the Modified Breath Figure Method. <i>Langmuir</i> , 2018, 34, 7472-7478.	1.6	9
536	A facile method to fabricate a superhydrophobic surface with biomimetic structure on magnesium alloy. <i>Materials Research Express</i> , 2018, 5, 066510.	0.8	2
537	Synergistic hostâ€”guest hydrophobic and hydrogen bonding interactions in the complexation between endo-functionalized molecular tube and strongly hydrophilic guest molecules in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16540-16550.	1.3	30
538	Superhydrophobic surface fabricated by nanosecond laser and perhydropolysilazane. <i>Applied Surface Science</i> , 2018, 455, 771-779.	3.1	40
539	Fabrication of durable superamphiphobic materials on various substrates with wear-resistance and self-cleaning performance from kaolin. <i>Applied Surface Science</i> , 2018, 456, 737-750.	3.1	44
540	Formation of Nanofibers with High Water Adhesion by Electrodeposition of Films of Poly(3,4â€”ethylenedioxyppyrole) and Poly(3,4â€”propylenedioxyppyrole) Substituted by Alkyl Chains. <i>ChemPlusChem</i> , 2018, 83, 968-975.	1.3	3
541	Preparation of stable, transparent superhydrophobic film via one step one pot sol-gel method. <i>Colloid and Polymer Science</i> , 2018, 296, 1523-1532.	1.0	13

#	ARTICLE	IF	CITATIONS
542	Lotus-Seedpod-Bioinspired 3D Superhydrophobic Diatomite Porous Ceramics Comodified by Graphene and Carbon Nanobelts. ACS Applied Materials & Interfaces, 2018, 10, 27416-27423.	4.0	24
543	Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. Coatings, 2018, 8, 47.	1.2	21
544	Recent Progress in Preparation and Anti-Icing Applications of Superhydrophobic Coatings. Coatings, 2018, 8, 208.	1.2	118
545	Fabrication of Superhydrophobic Metallic Surface by Wire Electrical Discharge Machining for Seamless Roll-to-Roll Printing. Metals, 2018, 8, 228.	1.0	7
546	Characterization and Bioreplication of <i>Tradescantia pallida</i> Inspired Biomimetic Superwettability for Dual Way Patterned Water Harvesting. Advanced Materials Interfaces, 2018, 5, 1800723.	1.9	14
547	Deconstructing the physical processes of digestion: reductionist approaches may provide greater understanding. Food and Function, 2018, 9, 4069-4084.	2.1	9
548	Polymeric materials with switchable superwettability for controllable oil/water separation: A comprehensive review. Progress in Polymer Science, 2018, 87, 1-33.	11.8	210
549	Mechanically Robust and Thermally Stable Colorful Superamphiphobic Coatings. Frontiers in Chemistry, 2018, 6, 144.	1.8	13
550	Fabrication and anisotropic wettability of titanium-coated microgrooves. Journal of Applied Physics, 2018, 123, .	1.1	18
551	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oil/Water Separation. ACS Applied Materials & Interfaces, 2018, 10, 17301-17308.	4.0	120
552	A superhydrophobic mesostructured silica as a chiral organometallic immobilization platform for heterogeneous asymmetric catalysis. Catalysis Science and Technology, 2018, 8, 2920-2927.	2.1	8
553	Underwater Superaerophobic and Superaerophilic Nanoneedles-Structured Meshes for Water/Bubbles Separation: Removing or Collecting Gas Bubbles in Water. Global Challenges, 2018, 2, 1700133.	1.8	31
554	Bio-inspired textures for functional applications. CIRP Annals - Manufacturing Technology, 2018, 67, 627-650.	1.7	88
555	A facile route to obtain binary micro-nano roughness on composite coating surface. EPJ Applied Physics, 2018, 82, 21302.	0.3	5
556	Design of intelligent surfaces for energy intensive processing industry. MATEC Web of Conferences, 2018, 185, 00001.	0.1	3
557	Substrate-versatile approach to multifunctional superamphiphobic coatings with mechanical durable property from quartz sand. Surface and Coatings Technology, 2018, 352, 191-200.	2.2	20
558	One-Step Solvent-Free Strategy for Covalently Attached, Substrate-Independent Transparent Slippery Coating. Advanced Materials Interfaces, 2018, 5, 1800646.	1.9	26
559	Compartmentalized Microhelices Prepared via Electrohydrodynamic Cojetting. Advanced Science, 2018, 5, 1800024.	5.6	9

#	ARTICLE	IF	CITATIONS
560	Direct reduction of oxygen gas over dendritic carbons with hierarchical porosity: beyond the diffusion limitation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2023-2030.	3.0	6
561	Fabrication of antireflective superhydrophobic thin film based on the TMMS with self-cleaning and anti-icing properties. <i>Progress in Organic Coatings</i> , 2018, 122, 199-206.	1.9	31
562	Facile Preparation of an Asymmetric Wettability Janus Cellulose Membrane for Switchable Emulsionsâ€™ Separation and Antibacterial Property. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15002-15011.	3.2	54
563	Three-Phase Photocatalysis for the Enhanced Selectivity and Activity of CO ₂ Reduction on a Hydrophobic Surface. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14549-14555.	7.2	269
564	Three-Phase Photocatalysis for the Enhanced Selectivity and Activity of CO ₂ Reduction on a Hydrophobic Surface. <i>Angewandte Chemie</i> , 2019, 131, 14691-14697.	1.6	49
565	Cassiaâ€™s Surfaces for Reversible, Barrier-Free Integration of Microfluidics and 3D Cell Culture. <i>Langmuir</i> , 2019, 35, 10299-10308.	1.6	7
566	Using Nanoimprint Lithography to Create Robust, Buoyant, Superhydrophobic PVB/SiO ₂ Coatings on wood Surfaces Inspired by Red roses petal. <i>Scientific Reports</i> , 2019, 9, 9961.	1.6	39
567	Study on the properties of superhydrophobic nickel coating prepared by jet electrodeposition in a parallel magnetic field. <i>Materials Research Express</i> , 2019, 6, 086462.	0.8	4
568	Potential of hydrophobic metal-organic framework-based materials for environmental applications. , 2019, , 319-354.		3
569	Superhydrophobic heterogeneous graphene networks with controllable adhesion behavior for detecting multiple underwater motions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17766-17774.	5.2	28
570	Bouncing Droplets: A Hands-On Activity To Demonstrate the Properties and Applications of Superhydrophobic Surface Coatings. <i>Journal of Chemical Education</i> , 2019, 96, 1971-1976.	1.1	5
571	Bioinspired superhydrophobicâ€™superhydrophilic convertible film based on anisotropic red blood cell-like particles with protuberances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123674.	2.3	9
572	Nanomaterials for design and fabrication of superhydrophobic polymer coating. , 2019, , 77-90.		3
573	TiO ₂ -based Photocatalytic Cementitious Composites: Materials, Properties, Influential Parameters, and Assessment Techniques. <i>Nanomaterials</i> , 2019, 9, 1444.	1.9	92
574	Multiple air-bubble enhanced oil rupture on nanostructured cellulose fabric for easy-oil cleaning fouled in a dry state. <i>Scientific Reports</i> , 2019, 9, 14538.	1.6	1
575	Biomimetic multifunctional materials: a review. <i>Emergent Materials</i> , 2019, 2, 391-415.	3.2	27
576	The stability of the superhydrophobic surfaces. , 2019, , 123-159.		2
577	Superhydrophobic surface with lotus/petal effect and its improvement on fatigue resistance of heat-resistant steel. <i>Progress in Organic Coatings</i> , 2019, 137, 105315.	1.9	15

#	ARTICLE	IF	CITATIONS
578	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , 2019, 98, 101166.	11.8	243
580	Advanced oil spill decontamination techniques. <i>Interface Science and Technology</i> , 2019, 30, 283-332.	1.6	13
581	A Super Anisotropic Wetting Microstructure Based on Combination of Sharp Edge and Sharp Corner. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 1055-1059.	1.7	0
582	Encoding and Decoding of Invisible Complex Information in a Dual-Response Bilayer Photonic Crystal with Tunable Wettability. <i>Advanced Functional Materials</i> , 2019, 29, 1906799.	7.8	96
583	Fabrication of Pd/SiO ₂ with Controllable Wettability for Enhanced Catalytic Hydrogenation Activity at Ambient H ₂ Pressure. <i>ChemCatChem</i> , 2019, 11, 5430-5434.	1.8	14
584	Nanostructure fabrication on the top of laser-made micropillars for enhancement of water repellence of aluminium alloy. <i>Materials Letters</i> , 2019, 256, 126601.	1.3	19
585	Fabrication of repairable superhydrophobic surface and improved anticorrosion performance based on zinc-rich coating. <i>Progress in Organic Coatings</i> , 2019, 137, 105335.	1.9	17
586	Periodontal Treatment Experience Associated with Oral Health-Related Quality of Life in Patients with Poor Glycemic Control in Type 2 Diabetes: A Case-Control Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4011.	1.2	9
587	Synergy between Zwitterionic Polymers and Hyaluronic Acid Enhances Antifouling Performance. <i>Langmuir</i> , 2019, 35, 15535-15542.	1.6	34
588	Design of robust superhydrophobic coatings using a novel fluorinated polysiloxane with UV/moisture dual cure system. <i>Reactive and Functional Polymers</i> , 2019, 143, 104329.	2.0	17
589	An electrospun fiber based metal-organic framework composite membrane for fast, continuous, and simultaneous removal of insoluble and soluble contaminants from water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22559-22570.	5.2	89
590	Versatile Electronic Skins with Biomimetic Micronanostructures Fabricated Using Natural Reed Leaves as Templates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38084-38091.	4.0	50
591	Facile fabrication of a low adhesion, stable and superhydrophobic filter paper modified with ZnO microclusters. <i>Applied Surface Science</i> , 2019, 496, 143743.	3.1	33
592	Fabrication of hierarchically structured surfaces with a "rose petal" effect by a modified breath figure method. <i>Thin Solid Films</i> , 2019, 689, 137503.	0.8	5
593	Antireflective structures on highly flexible and large area elastomer membrane for tunable liquid-filled endoscopic lens. <i>Nanoscale</i> , 2019, 11, 856-861.	2.8	20
594	Zeolite-Based Antifogging Coating via Direct Wet Deposition. <i>Langmuir</i> , 2019, 35, 2538-2546.	1.6	22
595	Hierarchical nanomaterials via biomolecular self-assembly and bioinspiration for energy and environmental applications. <i>Nanoscale</i> , 2019, 11, 4147-4182.	2.8	122
596	Mussel-inspired copolymer-coated polypropylene mesh with anti-adhesion efficiency for abdominal wall defect repair. <i>Biomaterials Science</i> , 2019, 7, 1323-1334.	2.6	41

#	ARTICLE	IF	CITATIONS
597	The effect of sharp solid edges on the droplet wettability. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 563-571.	5.0	41
598	Interspecific variations in the surface wettability and morphological traits of petals across 125 plant species. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019, 257, 151417.	0.6	3
599	Developing A "Polysulfide" Phobic Strategy to Restrain Shuttle Effect in Lithium Sulfur Batteries. <i>Angewandte Chemie</i> , 2019, 131, 11900-11904.	1.6	24
600	Developing A "Polysulfide" Phobic Strategy to Restrain Shuttle Effect in Lithium Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11774-11778.	7.2	100
601	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. <i>Composites Communications</i> , 2019, 15, 40-45.	3.3	38
602	Silica coating with well-defined micro-nano hierarchy for universal and stable surface superhydrophobicity. <i>Chemical Physics Letters</i> , 2019, 730, 594-599.	1.2	10
603	Superhydrophobicity: advanced biological and biomedical applications. <i>Biomaterials Science</i> , 2019, 7, 3110-3137.	2.6	81
604	Highly Selective Production of 2,5-Dimethylfuran from Fructose through Tailoring of Catalyst Wettability. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10844-10854.	1.8	14
605	Power generation and longevity improvement of renewable energy systems via slippery surfaces " A review. <i>Renewable Energy</i> , 2019, 143, 922-938.	4.3	15
606	Surface topographies of biomimetic superamphiphobic materials: design criteria, fabrication and performance. <i>Advances in Colloid and Interface Science</i> , 2019, 269, 87-121.	7.0	41
607	Controllable superhydrophobic surfaces with tunable adhesion fabricated by laser interference lithography. <i>Surface and Coatings Technology</i> , 2019, 372, 434-441.	2.2	32
608	A review of femtosecond laser-structured superhydrophobic or underwater superoleophobic porous surfaces/materials for efficient oil/water separation. <i>RSC Advances</i> , 2019, 9, 12470-12495.	1.7	89
609	Bio-inspired sensing and actuating materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6493-6511.	2.7	112
610	An underwater, self-sensing, conductive composite coating with controllable wettability and adhesion behavior. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12333-12342.	5.2	15
611	<i>In situ</i> observations for growth kinetics of water droplets on Bambusa multiplex leaves. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	3
612	Interaction of Surface Energy Components between Solid and Liquid on Wettability, and Its Application to Textile Anti-Wetting Finish. <i>Polymers</i> , 2019, 11, 498.	2.0	71
613	Physical Structure Induced Hydrophobicity Analyzed from Electrospinning and Coating Polyvinyl Butyral Films. <i>Advances in Condensed Matter Physics</i> , 2019, 2019, 1-5.	0.4	16
614	Superhydrophobic surface based on cross-linked polymer. <i>Materials Research Express</i> , 2019, 6, 055008.	0.8	2

#	ARTICLE	IF	CITATIONS
615	Simply realizing durable dual Janus superwetable membranes integrating underwater low-oil-adhesive with super-water-repellent surfaces for controlled oil/water permeation. <i>Journal of Membrane Science</i> , 2019, 580, 248-255.	4.1	23
616	Smart Superhydrophobic Shape Memory Adhesive Surface toward Selective Capture/Release of Microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10988-10997.	4.0	77
617	Fabrication of superhydrophobic electrospun polyimide nanofibers modified with polydopamine and polytetrafluoroethylene nanoparticles for oil/water separation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47638.	1.3	33
618	Fabrication of hydrophobic cellulosic materials via gas-solid silylation reaction for oil/water separation. <i>Cellulose</i> , 2019, 26, 4021-4037.	2.4	32
619	How does the complexation ability between host endo-functionalized molecular tube and strongly hydrophilic guest molecules in water depend on guest concentration?. <i>Journal of Molecular Liquids</i> , 2019, 283, 507-514.	2.3	13
620	Wettability measurement, optical characteristics, and investigation of the quantum confinement effect of ZnS-scotch tape nanocomposite films prepared by successive ionic layer adsorption and reaction (SILAR) method. <i>Physica B: Condensed Matter</i> , 2019, 564, 94-103.	1.3	16
621	A biodegradable polymer-based common chemical avenue for optimizing switchable, chemically reactive and tunable adhesive superhydrophobicity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9120-9129.	5.2	31
622	Super-Hydrophobic Co-Ni Coating with High Abrasion Resistance Prepared by Electrodeposition. <i>Coatings</i> , 2019, 9, 232.	1.2	22
623	Pore Surface Engineering by Decorating Metal-Oxo Nodes with Phenylsilane to Give Versatile Superhydrophobic Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7405-7409.	7.2	60
624	Preparation and Corrosion Resistance of 304 Super-hydrophobic Stainless-Steel Surface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 493, 012057.	0.3	2
625	Beetle-inspired wettable materials: from fabrications to applications. <i>Materials Today Nano</i> , 2019, 6, 100034.	2.3	36
626	Pore Surface Engineering by Decorating Metal-Oxo Nodes with Phenylsilane to Give Versatile Superhydrophobic Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie</i> , 2019, 131, 7483-7487.	1.6	16
627	Fabrication of fluorine-free ZnO/CuO nanocomposite superantiwetting surfaces with reversible wettability tuning. <i>Surface and Coatings Technology</i> , 2019, 367, 252-261.	2.2	23
628	Nature-Inspired Strategy for Anticorrosion. <i>Advanced Engineering Materials</i> , 2019, 21, 1801379.	1.6	58
629	Superwettability-Based Interfacial Chemical Reactions. <i>Advanced Materials</i> , 2019, 31, e1800718.	11.1	128
630	Simple and Affordable Way To Achieve Polymeric Superhydrophobic Surfaces with Biomimetic Hierarchical Roughness. <i>ACS Omega</i> , 2019, 4, 2750-2757.	1.6	24
631	DNA-Based Nanofabrication: Pathway to Applications in Surface Engineering. <i>Small</i> , 2019, 15, e1805428.	5.2	24
633	Use of Nanostructured Coating to Improve Heat Exchanger Efficiency. , 2019, , 275-292.		4

#	ARTICLE	IF	CITATIONS
634	Fabrication of Ni Co coating by electrochemical deposition with high super-hydrophobic properties for corrosion protection. <i>Surface and Coatings Technology</i> , 2019, 363, 352-361.	2.2	40
636	Bioinspired Superhydrophobic Papillae with Tunable Adhesive Force and Ultralarge Liquid Capacity for Microdroplet Manipulation. <i>Advanced Functional Materials</i> , 2019, 29, 1900266.	7.8	73
637	Porous Anodic Aluminum Oxide as an Efficient Support for Ruthenium-Catalyzed Aerobic Oxidation of Alcohols and Amines. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23025-23031.	1.8	5
639	Insect Mouthparts. <i>Zoological Monographs</i> , 2019, , .	1.1	32
640	Approach to excellent superhydrophobicity and corrosion resistance of carbon-based films by graphene and cobalt synergism. <i>Surface and Interface Analysis</i> , 2019, 51, 152-163.	0.8	6
641	Kraft Mesh Origami for Efficient Oil-Water Separation. <i>Langmuir</i> , 2019, 35, 815-823.	1.6	13
642	Breathing-Mimicking Electrocatalysis for Oxygen Evolution and Reduction. <i>Joule</i> , 2019, 3, 557-569.	11.7	132
643	Designing bioinspired parahydrophobic surfaces by electrodeposition of poly(3,4-ethylenedioxyppyrrrole) and poly(3,4-propylenedioxyppyrrrole) with mixed hydrocarbon and fluorocarbon chains. <i>European Polymer Journal</i> , 2019, 110, 76-84.	2.6	5
644	An Artificial Nocturnal Flower via Humidity-Gated Photoactuation in Liquid Crystal Networks. <i>Advanced Materials</i> , 2019, 31, e1805985.	11.1	154
645	Minireview: Laser-Induced Formation of Microbubbles—Biomedical Implications. <i>Langmuir</i> , 2019, 35, 10139-10150.	1.6	15
646	Layer-by-layer assembly for ultrathin energy-harvesting films: Piezoelectric and triboelectric nanocomposite films. <i>Nano Energy</i> , 2019, 56, 1-15.	8.2	54
647	Progress of binary cooperative complementary interfacial nanomaterials. <i>Nano Today</i> , 2019, 24, 48-80.	6.2	14
648	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5289-5297.	4.0	37
649	Mosquito's Compound Eyes as Inspiration for Fabrication of Conductive Superhydrophobic Nanocarbon Materials from Waste Wheat Straw. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3883-3894.	3.2	18
650	Superhydrophobicity of microstructured surfaces on zirconia by nanosecond pulsed laser. <i>Journal of Micromanufacturing</i> , 2019, 2, 5-14.	0.6	16
651	Reducing Adhesion for Dispensing Tiny Water/Oil Droplets and Gas Bubbles by Femtosecond Laser-Treated Needle Nozzles: Superhydrophobicity, Superoleophobicity, and Superaerophobicity. <i>ChemNanoMat</i> , 2019, 5, 241-249.	1.5	18
652	Bioinspired membranes for multi-phase liquid and molecule separation. <i>Science China Chemistry</i> , 2019, 62, 14-23.	4.2	25
653	A stable ZIF-8-coated mesh membrane with micro-/nano architectures produced by a facile fabrication method for high-efficiency oil-water separation. <i>Science China Materials</i> , 2019, 62, 536-544.	3.5	25

#	ARTICLE	IF	CITATIONS
654	Electrospun polyimide nanofibrous membranes for absorption of oil spills. <i>Journal of Industrial Textiles</i> , 2020, 50, 584-595.	1.1	5
655	Wettability of striped patterned mono-and multilayer graphene supported on platinum. <i>Applied Surface Science</i> , 2020, 500, 144002.	3.1	10
656	Nanosecond pulsed fiber laser cleaning of natural marine micro-biofoulings from the surface of aluminum alloy. <i>Journal of Cleaner Production</i> , 2020, 244, 118724.	4.6	47
657	Preparation of re-entrant and anti-fouling PVDF composite membrane with omniphobicity for membrane distillation. <i>Journal of Membrane Science</i> , 2020, 595, 117563.	4.1	51
658	Acidic deep eutectic solvents pretreatment for selective lignocellulosic biomass fractionation with enhanced cellulose reactivity. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 288-297.	3.6	127
659	Tunable surface chemistry and wettability of octafluorocyclobutane and acrylic acid copolymer combined LDPE substrate by pulsed plasma polymerization. <i>Journal of Coatings Technology Research</i> , 2020, 17, 621-632.	1.2	4
660	In situ synthesis and exhaustion of nano TiO ₂ on fabric samples using laser ablation method. <i>Journal of the Textile Institute</i> , 2020, 111, 122-128.	1.0	9
661	Smart Materials by Nanoscale Magnetic Assembly. <i>Advanced Functional Materials</i> , 2020, 30, 1903467.	7.8	88
662	Bioinspired like lotus leaf hierarchical micropapillae structure for efficient oil-water separation and antibacterial performance. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1690-1702.	1.3	4
663	A ω -PDMS-in-water emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. <i>Nanoscale Horizons</i> , 2020, 5, 65-73.	4.1	193
664	Hydrophilic to ultrahydrophobic transition of Al 7075 by affordable ns fiber laser and vacuum processing. <i>Applied Surface Science</i> , 2020, 505, 144523.	3.1	41
665	Synthesis a microporous organic gelator and evaluation of organic solvents gelling properties and the separation of crude oil products from water. <i>Materials Letters</i> , 2020, 260, 126909.	1.3	3
666	External Stimuli Responsive Liquid α -Infused Surfaces Switching between Slippery and Nonslippery States: Fabrications and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1901130.	7.8	80
667	Large-Area Stable Superhydrophobic Poly(dimethylsiloxane) Films Fabricated by Thermal Curing via a Chemically Etched Template. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3042-3050.	4.0	36
668	Influence of TiO ₂ nanostructure size and surface modification on surface wettability and bacterial adhesion. <i>Colloids and Interface Science Communications</i> , 2020, 34, 100220.	2.0	35
669	Gecko-like adhesion in the electrospinning process. <i>Results in Physics</i> , 2020, 16, 102899.	2.0	34
670	Design and preparation of superwetting polymer surface. <i>Polymer</i> , 2020, 186, 122043.	1.8	6
671	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. <i>Polymers</i> , 2020, 12, 4.	2.0	23

#	ARTICLE	IF	CITATIONS
672	Preparation of superhydrophobic flexible tubes with water and blood repellency based on template method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 587, 124331.	2.3	40
673	Development of underwater superoleophobic polyamide-imide (PAI) microfiltration membranes for oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 238, 116451.	3.9	53
674	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO ₂ -Based Building Materials. <i>Nanomaterials</i> , 2020, 10, 1854.	1.9	44
675	Self-pumping and scalable fog collector with diode-like micro-hole arrays inspired by natural asymmetric wettability. <i>Applied Materials Today</i> , 2020, 21, 100851.	2.3	18
676	Flexible electromagnetic capturer with a rapid ejection feature inspired by a biological ballistic tongue. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 066002.	1.5	2
677	Formation of sub-wavelength laser induced periodic surface structure and wettability transformation of CFRP laminates using ultra-fast laser. <i>Materials Letters</i> , 2020, 276, 128282.	1.3	9
678	Effects of mould wear on hydrophobic polymer surfaces replicated using plasma-treated and laser-textured stainless steel inserts. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2020, 14, 240-252.	0.6	5
679	Dynamically morphing microchannels in liquid crystal elastomer coatings containing disclinations. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	5
680	Facile Fabrication of a Superhydrophobic Surface with Robust Micro-/Nanoscale Hierarchical Structures on Titanium Substrate. <i>Nanomaterials</i> , 2020, 10, 1509.	1.9	16
681	Reversible Structure Engineering of Bioinspired Anisotropic Surface for Droplet Recognition and Transportation. <i>Advanced Science</i> , 2020, 7, 2001650.	5.6	37
682	Discarded cigarette butts regenerated hydrophobic-oleophilic materials for both immiscible and emulsified oil/water separation through a wettability reversal strategy. <i>Applied Surface Science</i> , 2020, 532, 147350.	3.1	4
683	Nanosecond laser fabrication of superhydrophobic surface on 316L stainless steel and corrosion protection application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 604, 125259.	2.3	53
684	Bioinspired wettable “nonwettable” micropatterns for emerging applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8101-8115.	2.9	19
685	Acoustic Waves for Active Reduction of Contact Time in Droplet Impact. <i>Physical Review Applied</i> , 2020, 14, .	1.5	16
686	Manufacturing of anti-fogging super-hydrophilic microstructures on glass by nanosecond laser. <i>Journal of Manufacturing Processes</i> , 2020, 59, 557-565.	2.8	18
687	Nanoparticle \pm -ZrP Enhanced Superhydrophobicity. <i>Solvent Extraction and Ion Exchange</i> , 2020, 38, 645-655.	0.8	6
688	Biomimetic Fabrication of Janus Fabric with Asymmetric Wettability for Water Purification and Hydrophobic/Hydrophilic Patterned Surfaces for Fog Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50113-50125.	4.0	68
689	Surface topology modification of organic substrates using material jetting technologies. <i>Materials and Design</i> , 2020, 196, 109116.	3.3	3

#	ARTICLE	IF	CITATIONS
690	Patterned nanofiber air filters with high optical transparency, robust mechanical strength, and effective PM _{2.5} capture capability. RSC Advances, 2020, 10, 20155-20161.	1.7	31
691	Zeta Potential Dependent Self-Assembly for Very Large Area Nanosphere Lithography. Nano Letters, 2020, 20, 5090-5096.	4.5	26
692	Boosting Lithium Storage in Free-Standing Black Phosphorus Anode via Multifunction of Nanocellulose. ACS Applied Materials & Interfaces, 2020, 12, 31628-31636.	4.0	48
694	Wetting-Controlled Localized Placement of Surface Functionalities within Nanopores. Small, 2020, 16, 1906463.	5.2	11
695	Tunable hierarchical wrinkling: From models to applications. Journal of Applied Physics, 2020, 127, .	1.1	46
696	Action Mechanism of Sticky Rice-Paste-Modified Site Soil: A Traditional Chinese Cementitious Material. Studies in Conservation, 2020, 65, 238-250.	0.6	6
697	Biomimetic porous polypropylene foams with special wettability properties. Composites Part B: Engineering, 2020, 190, 107927.	5.9	26
698	Fog collection on a superhydrophobic/hydrophilic composite spine surface. RSC Advances, 2020, 10, 9318-9323.	1.7	4
699	Biomimetic metal surfaces inspired by lotus and reed leaves for manipulation of microdroplets or fluids. Applied Surface Science, 2020, 519, 146052.	3.1	27
700	Micro-/nanostructures meet anisotropic wetting: from preparation methods to applications. Materials Horizons, 2020, 7, 2566-2595.	6.4	58
701	Natural Architectures for Tissue Engineering and Regenerative Medicine. Journal of Functional Biomaterials, 2020, 11, 47.	1.8	10
702	A sky-blue superhydrophobic coating and applications. Progress in Organic Coatings, 2020, 147, 105863.	1.9	16
703	Hierarchically Active Poly(vinylidene fluoride) Membrane Fabricated by In Situ Generated Zero-Valent Iron for Fouling Reduction. ACS Applied Materials & Interfaces, 2020, 12, 10993-11004.	4.0	49
704	Dynamic self-assembly of silver nanoclusters into luminescent nanotubes with controlled surface roughness: Scaffold of superhydrophobic materials. Applied Surface Science, 2020, 514, 145913.	3.1	8
705	Practical Applications of Superhydrophobic Materials and Coatings: Problems and Perspectives. Langmuir, 2020, 36, 2493-2509.	1.6	134
706	SiO ₂ @TiO ₂ Composite Synthesis and Its Hydrophobic Applications: A Review. Catalysts, 2020, 10, 171.	1.6	37
707	Preparation of superaerophilic copper mesh for underwater gas collection by combination of spraying technology and flame treatment. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	5
708	Plasma Electrolysis Spraying Al ₂ O ₃ Coating onto Quartz Fiber Fabric for Enhanced Thermal Conductivity and Stability. Applied Sciences (Switzerland), 2020, 10, 702.	1.3	4

#	ARTICLE	IF	CITATIONS
709	Superhydrophobic Copper Surface Textured by Laser for Delayed Icing Phenomenon. <i>Langmuir</i> , 2020, 36, 1075-1082.	1.6	62
710	Hierarchical Micro-Nanostructured Surfaces for Isotropic/Anisotropic Liquid Transport. <i>Langmuir</i> , 2020, 36, 1569-1573.	1.6	3
711	Thermal Activation of Electrochemical Seed Surfaces for Selective and Tunable Hydrophobic Patterning. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7744-7759.	4.0	9
712	Robust TiO ₂ nanorods-SiO ₂ core-shell coating with high-performance self-cleaning properties under visible light. <i>Applied Surface Science</i> , 2020, 509, 145377.	3.1	28
713	Bioinspired Smart Liquid Directional Transport Control. <i>Langmuir</i> , 2020, 36, 667-681.	1.6	31
714	Enabling phase transition of infused lubricant in porous structure for exceptional oil/water separation. <i>Journal of Hazardous Materials</i> , 2020, 390, 122176.	6.5	30
715	Self-Cleaned Photonic-Enhanced Solar Cells with Nanostructured Parylene. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000264.	1.9	19
716	Molecular Architectonics-Guided Fabrication of Superhydrophobic and Self-Cleaning Materials. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000246.	1.9	35
717	Electrodeposited superhydrophobic hierarchical structures as sensitive surface enhanced Raman scattering substrates. <i>Materials Letters</i> , 2020, 271, 127738.	1.3	7
718	Superamphiphobic Surfaces with Self-Cleaning and Antifouling Properties by Functionalized Chitin Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6690-6699.	3.2	47
719	Preparation of Microcapsules Coating and the Study of Their Bionic Anti-Fouling Performance. <i>Materials</i> , 2020, 13, 1669.	1.3	23
720	<i>Salvinia</i> -like slippery surface with stable and mobile water/air contact line. <i>National Science Review</i> , 2021, 8, nwa153.	4.6	47
721	Revisiting the supplementary relationship of dynamic contact angles measured by sessile-droplet and captive-bubble methods: Role of surface roughness. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 690-697.	5.0	30
722	Reproducible and fast preparation of superhydrophobic surfaces via an ultrasound-accelerated one-pot approach for oil collection. <i>Separation and Purification Technology</i> , 2021, 258, 118036.	3.9	14
723	Rapid fabrication of large-scale structurally colored PS@SiO ₂ films with enhanced self-cleaning capability. <i>Journal of Coatings Technology Research</i> , 2021, 18, 489-499.	1.2	6
724	<i>Nepenthes</i> pitcher inspired isotropic/anisotropic polymer solid-liquid composite interface: preparation, function, and application. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1716-1742.	3.2	19
725	Derivation of a Petrophysical Model for Contact Angle Based on PURCELL'S Equation and CO ₂ -Sandstone Brine System Calculation for Core flooding Wettability Preservation. <i>Natural Resources Research</i> , 2021, 30, 1649-1666.	2.2	3
726	Bioinspired superwetting surfaces for biosensing. <i>View</i> , 2021, 2, 20200053.	2.7	33

#	ARTICLE	IF	CITATIONS
727	Bioinspired Surface with Superwettability for Controllable Liquid Dynamics. <i>Advanced Materials Interfaces</i> , 2021, 8, 2000824.	1.9	21
728	Rational design of electrospun nanofibrous materials for oil/water emulsion separation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 97-128.	3.2	55
729	Hydrophobicity Enhancement of Mesh-like Surface for Moist Air Condensation. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 435-442.	0.3	0
730	Superhydrophobic Polymer/Nanoparticle Hybrids. , 2021, , 91-116.		0
731	Superhydrophobic and oleophobic dual-function coating with durability and self-healing property based on a waterborne solution. <i>Applied Materials Today</i> , 2021, 22, 100970.	2.3	21
732	A Facile and Cost-Effective Method to Prepare a Robust Superhydrophobic RTV Silicone Coating. <i>Coatings</i> , 2021, 11, 312.	1.2	4
733	Electrospinning Janus Nanofibrous Membrane for Unidirectional Liquid Penetration and Its Applications. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 337-354.	1.3	21
734	Preparation and characterisation of AAO/Ni/Ni superhydrophobic coatings on aluminium alloys. <i>Surface Engineering</i> , 2021, 37, 1246-1254.	1.1	11
735	Unidirectional water-transport antibacterial trilayered nanofiber-based wound dressings induced by hydrophilic-hydrophobic gradient and self-pumping effects. <i>Materials and Design</i> , 2021, 201, 109461.	3.3	53
736	Preparation of Co ₃ O ₄ self-cleaning nanocoatings: Investigation of ZnO seeded steel meshes. <i>Surfaces and Interfaces</i> , 2021, 23, 100912.	1.5	4
737	Controlled spreading of melted fillers and precision micro-brazing based on a micro-scale binary cooperative complementary interface design strategy. <i>Ceramics International</i> , 2021, 47, 21433-21442.	2.3	4
738	From Waste to Functional Materials: A Multifunctional Electromagnetic Interference Shielding Composite from Waste Rock Wool. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2187-2194.	2.0	6
739	Ultra dynamic water repellency and anti-icing performance of superhydrophobic ZnO surface on the printed circuit board (PCB). <i>Chemical Physics Letters</i> , 2021, 771, 138558.	1.2	31
740	Titanium dioxide nanotubes as drug carriers for infection control and osteogenesis of bone implants. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1456-1474.	3.0	22
741	Superhydrophobic Coating Derived from the Spontaneous Orientation of Janus Particles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25392-25399.	4.0	21
742	Dual-stage thermosetting photopolymers for advanced manufacturing. <i>Chemical Engineering Journal</i> , 2021, 411, 128466.	6.6	18
743	Superhydrophobic and superoleophilic membranes for oil-water separation application: A comprehensive review. <i>Materials and Design</i> , 2021, 204, 109599.	3.3	239
744	A compound of ZnO/PDMS with photocatalytic, self-cleaning and antibacterial properties prepared via two-step method. <i>Applied Surface Science</i> , 2021, 550, 149286.	3.1	36

#	ARTICLE	IF	CITATIONS
745	Preparation of Soluble POSS-Linking Polyamide and Its Application in Antifogging Films. <i>Materials</i> , 2021, 14, 3178.	1.3	9
746	Smart Sand by Surface Engineering: Toward Controllable Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9475-9481.	1.8	7
747	Application of Nano-Hydroxyapatite Derived from Oyster Shell in Fabricating Superhydrophobic Sponge for Efficient Oil/Water Separation. <i>Molecules</i> , 2021, 26, 3703.	1.7	7
748	Synthesis and application of bisurea derivatives: Effect of structural differences on the gelation properties. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105220.	3.3	0
749	Tunable fabrication of biomimetic polypropylene nanopillars with robust superhydrophobicity and antireflectivity. <i>Nanotechnology</i> , 2021, 32, 395301.	1.3	5
750	Engineering Durable Superhydrophobic Photocatalyst for Oil/Water Separation and Degradation of Chemical Pollutants. <i>ChemistrySelect</i> , 2021, 6, 7271-7277.	0.7	3
751	Superhydrophobic behavior of coatings based on fluoroalkyl methacrylate copolymers on a textured aluminum surface. <i>Surfaces and Interfaces</i> , 2021, 25, 101255.	1.5	6
752	Progress in Non-Traditional Processing for Fabricating Superhydrophobic Surfaces. <i>Micromachines</i> , 2021, 12, 1003.	1.4	12
753	Towards Rapid Fabrication of Superhydrophobic Surfaces by Multi-Beam Nanostructuring with 40,401 Beams. <i>Nanomaterials</i> , 2021, 11, 1987.	1.9	8
754	Incorporation of ZnO/ZrO ₂ nanoparticles into TiO ₂ coatings obtained by PEO on Ti-6Al-4V substrate and evaluation of its corrosion behavior, microstructural and antibacterial effects exposed to SBF solution. <i>Ceramics International</i> , 2021, 47, 33413-33425.	2.3	25
755	Tailoring electrospun nanofibrous materials for oil/water emulsion separation. <i>Journal of the Textile Institute</i> , 2022, 113, 2285-2298.	1.0	4
756	Study on the regulation of polythiophene whiskers by electric field induction and the anisotropy of the film surface. <i>Polymer International</i> , 2021, 70, 1653-1658.	1.6	1
757	Laser fabrication of modular superhydrophobic chips for reconfigurable assembly and self-propelled droplet manipulation. <i>Photonix</i> , 2021, 2, .	5.5	28
758	Superhydrophobic ZnO Surfaces with Anti-corrosive and Icing delay Abilities. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	0
759	Tailoring Materials with Specific Wettability in Biomedical Engineering. <i>Advanced Science</i> , 2021, 8, e2100126.	5.6	52
760	Robust CuO micro-cone decorated membrane with superhydrophilicity applied for oil/water separation and anti-viscous-oil fouling. <i>Materials Characterization</i> , 2021, 179, 111387.	1.9	9
761	Brome-like rare-earth film for durable protection of magnesium alloy. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 128, 409-416.	2.7	6
762	Challenges and Opportunities in Geometric Modeling of Complex Bio-Inspired Three-Dimensional Objects Designed for Additive Manufacturing. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021, 143, .	1.7	9

#	ARTICLE	IF	CITATIONS
763	Photo-Polymerization Induced Hierarchical Pattern via Self-Wrinkling. <i>Advanced Functional Materials</i> , 2021, 31, 2106754.	7.8	17
764	Wettability control in electrocatalyst: A mini review. <i>Journal of Energy Chemistry</i> , 2022, 70, 643-655.	7.1	29
765	Ultrasonic vibration assisted laser (UVAL) treatment of copper for superhydrophobicity. <i>Surface and Coatings Technology</i> , 2021, 421, 127386.	2.2	7
766	Preparation and corrosion resistance of superhydrophobic film by one-step electrodeposition. <i>Materials Research Express</i> , 2021, 8, 096513.	0.8	5
767	Superhydrophobic modification of the surface of cellulosic materials based on honeycomb-like zinc oxide structures and their application in oil-water separation. <i>Applied Surface Science</i> , 2021, 563, 150291.	3.1	27
768	Au nanoparticle embedded Poly(methyl-methacrylate) and Poly(styrene) free-standing films for wettability and surface enhanced Raman scattering applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115324.	1.7	3
769	Fabrication of cobalt-based superhydrophobic coating with micro/nano hierarchical structure without additional hydrophobization treatment. <i>Ceramics International</i> , 2021, 47, 30711-30721.	2.3	9
770	Coalescence-induced jumping and condensation of argon nanodroplets in the Cassie or the Wenzel state on nanopillar-arrayed surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127269.	2.3	8
771	Water-repellent surfaces of metallic glasses: fabrication and application. <i>Materials Today Advances</i> , 2021, 12, 100164.	2.5	8
772	The challenges, achievements and applications of submersible superhydrophobic materials. <i>Chemical Society Reviews</i> , 2021, 50, 6569-6612.	18.7	81
773	Unidirectional water transport on a two-dimensional hydrophilic channel with anisotropic superhydrophobic barriers. <i>Soft Matter</i> , 2021, 17, 8153-8159.	1.2	5
774	Direct Imaging of Superwetting Behavior on Solid-Liquid-Vapor Triphase Interfaces. <i>Advanced Materials</i> , 2017, 29, 1703009.	11.1	10
775	Hierarchical Microstructures and Functions of the Lepidopteran Proboscis Cuticle. <i>Zoological Monographs</i> , 2019, , 315-334.	1.1	4
776	Antifouling Self-Cleaning Surfaces. , 2015, , 1-29.		3
777	Lotus-leaf-inspired hierarchical structured surface with non-fouling and mechanical bactericidal performances. <i>Chemical Engineering Journal</i> , 2020, 398, 125609.	6.6	145
778	Doubly Reentrant Cavities Prevent Catastrophic Wetting Transitions on Intrinsically Wetting Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21532-21538.	4.0	64
779	Geometrical effect, optimal design and controlled fabrication of bio-inspired micro/nanotextures for superhydrophobic surfaces. <i>Materials Research Express</i> , 2017, 4, 092001.	0.8	11
780	A bioinspired strategy for poly(3,4-ethylenedioxyppyrole) films with strong water adhesion. <i>Pure and Applied Chemistry</i> , 2020, 92, 315-322.	0.9	1

#	ARTICLE	IF	CITATIONS
781	Fabrication of a Superhydrophobic Water-Repellent Mesh for Underwater Sensors. <i>Journal of Sensor Science and Technology</i> , 2013, 22, 100-104.	0.1	3
782	Laser-Assisted Tailoring of Surface Wettability - Fundamentals and Applications: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2019, 7, 331-366.	3.3	16
783	Pulsed laser modification of Al ₂ O ₃ ceramics to controlling the surface wettability. <i>Journal of Physics: Conference Series</i> , 2021, 2036, 012039.	0.3	0
784	A Facile and Green Construction of Biomimetic, Fluorine-free and Superhydrophobic Melamine Sponge with Magnetic-driven Function for Efficient Oil-water Separation and Oil Absorption. <i>Journal of Bionic Engineering</i> , 2021, 18, 1168-1178.	2.7	6
785	Biomimicry: Recent Updates on Nanotechnology Innovations Inspired by Nature Creations. <i>Current Nanoscience</i> , 2021, 17, 659-669.	0.7	2
786	Liquid and liquid-like surfaces/coatings that readily slide fluids. <i>Progress in Polymer Science</i> , 2021, 123, 101468.	11.8	49
787	Bioinspired and Biomimetic Functional Hybrids as Tools for Regeneration of Orthopedic Interfaces. , 0, , .		0
788	PROGRESS IN SELF-ASSEMBLIES FOR MIMICKING VIRAL CAPSIDS AND THEIR BIOMEDICAL APPLICATIONS. <i>Acta Polymerica Sinica</i> , 2012, 012, 1128-1135.	0.0	0
789	Lotus Leaf Effect: Micro- and Nanostructures. , 2015, , 1-49.		0
790	CHAPTER 7. "Slippery" Liquid-Infused Surfaces Inspired by Nature. <i>RSC Smart Materials</i> , 2016, , 185-208.	0.1	0
791	Interfacial water at microscopic level: from quasi-one-dimensional, two-dimensional confined space, to biomolecules surfaces and material surfaces. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 186101.	0.2	4
792	Spline Based Modeling of Two-Dimensional Droplets on Rough and Heterogeneous Surfaces. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 1049-1058.	0.3	0
793	Fabrication and optimum conditions of a superhydrophobic surface using a facile redox reaction and a solution-immersion method on zinc substrates. <i>Materiali in Tehnologije</i> , 2017, 51, 651-656.	0.3	0
794	Fabrication of hierarchical superhydrophobic surfaces. , 2017, , .		0
795	Physical Determinants of Fluid-Feeding in Insects. <i>Zoological Monographs</i> , 2019, , 263-314.	1.1	4
796	Recent Physical Interaction-based Bioadhesives. , 2020, , 693-721.		1
798	Molecular Architectonics Guide to the Fabrication of Self-Cleaning Materials. <i>Nanostructure Science and Technology</i> , 2022, , 71-88.	0.1	1
799	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53271-53281.	4.0	51

#	ARTICLE	IF	CITATIONS
800	Thermodynamics of (nano)interfaces. , 2022, , 13-56.		0
801	The effect of cold plasma treatment on biological properties of YSZ porous ceramic. AIP Conference Proceedings, 2020, , .	0.3	2
802	High Performance Super-Hydrophobic Flower-Like CeO ₂ ; Micro/Nano-Structure Fabricated by Hydro-Thermal Method. Advances in Material Chemistry, 2020, 08, 15-22.	0.0	0
803	Integration of bubble phobicity, gas sensing and friction alleviation into a versatile MoS ₂ /SnO ₂ /CNF heterostructure by an impressive, simple and effective method. Nanoscale, 2020, 12, 18629-18639.	2.8	2
804	Immediate modified prostodontic rehab for tumor of the maxilla: case report. Opuholi Golovy I Sei, 2020, 10, 90-96.	0.1	0
805	SUPERWETTABILITY-BASED CHEMICAL PROCESSES. Surface Review and Letters, 2021, 28, 2030005.	0.5	0
806	Super-hydrophobic/hydrophilic patterning on three-dimensional objects. Applied Surface Science, 2022, 576, 151849.	3.1	14
807	Effective purification of oily wastewater using lignocellulosic biomass: A review. Chinese Chemical Letters, 2022, 33, 2807-2816.	4.8	29
808	Sudden Contraction Promotes the Rebound of Droplets on an Inclined Microflower Superhydrophobic Surface. Advanced Materials Interfaces, 0, , 2101515.	1.9	3
809	Asymmetric Mass Transport through Dense Heterogeneous Polymer Membranes: Fundamental Principles, Lessons from Nature, and Artificial Systems. Macromolecular Rapid Communications, 2022, 43, e2100654.	2.0	1
810	Durable and robust PVDF-HFP/SiO ₂ /CNTs nanocomposites for anti-icing application: Water repellency, icing delay, and ice adhesion. Progress in Organic Coatings, 2022, 163, 106637.	1.9	8
811	Smart surfaces with reversibly switchable wettability: Concepts, synthesis and applications. Advances in Colloid and Interface Science, 2022, 300, 102584.	7.0	33
812	Inverse opal photonic crystal stabilized CsPbX ₃ perovskite quantum dots and their application in white LED. Chemical Engineering Journal, 2022, 432, 134409.	6.6	20
813	Superhydrophobic/superlipophilic interface layer for oil-water separation. Chemical Engineering Research and Design, 2022, 161, 13-21.	2.7	16
814	Programmable Transition between Adhesive/Anti-Adhesive Performances on Porous PVDF Spheres Supported by Shape Memory PLLA. Polymers, 2022, 14, 374.	2.0	6
815	A comprehensive review: Super hydrophobic graphene nanocomposite coatings for underwater and wet applications to enhance corrosion resistance. FlatChem, 2022, 31, 100326.	2.8	33
817	Hydrophobic coatings prepared using various dipodal silane-functionalized polymer precursors. Applied Surface Science Advances, 2022, 7, 100207.	2.9	6
818	Effects of Nanomaterials on Engineering Performance of a Potassium Methyl Siliconate-Based Sealer for Cementitious Composite. Journal of Materials in Civil Engineering, 2022, 34, .	1.3	2

#	ARTICLE	IF	CITATIONS
819	Nature-Inspired Superwettability Achieved by Femtosecond Lasers. <i>Ultrafast Science</i> , 2022, 2022, .	5.8	50
820	A Bioinspired Fibrous Helix with Periodic Gradient for Directional Fluidic Gates. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	4
821	Optimal condition for fabricating mechanically durable superhydrophobic titanium surface by rapid breakdown anodization: Self cleaning and bouncing characteristics. <i>Applied Surface Science</i> , 2022, 585, 152628.	3.1	32
822	One-step laser etching of a bionic hierarchical structure on a silicone rubber surface with thermal and acid/alkali resistance and tunable wettability. <i>Soft Matter</i> , 2022, 18, 3412-3421.	1.2	6
823	Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19662-19670.	5.2	5
824	Self-assembled organic and hybrid materials derived from oligo-(<i>p</i> -phenyleneethynyls). <i>Chemical Communications</i> , 2022, 58, 4149-4167.	2.2	3
825	Emerging Separation Applications of Surface Superwettability. <i>Nanomaterials</i> , 2022, 12, 688.	1.9	12
826	Investigation on the photocatalytic activity of La ₂ O ₃ /LaFeO ₃ composite prepared by spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8209-8217.	1.1	1
827	How much biology is in the product? Role and relevance of biological evolution and function for bio-inspired design. <i>Theory in Biosciences</i> , 2022, , 1.	0.6	4
828	Transparent and superhydrophilic antifogging coatings constructed by poly(N-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 128724.	2.3	12
829	A versatile polymer nanofiber network surface modification method via one-step RAFT polymerization. <i>Materials Letters</i> , 2022, 316, 132055.	1.3	0
830	Hydrophobic, breathable cellulose nonwoven fabrics for disposable hygiene applications. <i>Carbohydrate Polymers</i> , 2022, 288, 119367.	5.1	9
831	A special underoil superhydrophilic (UOSHL) membrane: Growing of copper phosphate (Cu ₃ (PO ₄) ₂) nanosheet to achieve self-cleaning and efficient oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128904.	2.3	8
832	Femtosecond laser micro/nano fabrication for bioinspired superhydrophobic or underwater superoleophobic surfaces. <i>Journal of Central South University</i> , 2021, 28, 3882-3906.	1.2	25
833	Bioinspired Materials for Energy Storage. <i>Small Methods</i> , 2022, 6, e2101076.	4.6	25
834	Bioinspired superwetttable electrodes towards electrochemical biosensing. <i>Chemical Science</i> , 2022, 13, 5069-5084.	3.7	14
836	Superhydrophobic/Superoleophilic Copper Mesh for Heavy Oil-water Separation. <i>Chemistry Letters</i> , 2022, 51, 796-798.	0.7	3
837	Overflow Control for Sustainable Development by Superwetting Surface with Biomimetic Structure. <i>Chemical Reviews</i> , 2023, 123, 2276-2310.	23.0	32

#	ARTICLE	IF	CITATIONS
838	Superacid-catalyzed preparation of ionic polyhedral oligomeric silsesquioxanes and their properties, polymerization, and hybridization. <i>Journal of Sol-Gel Science and Technology</i> , 0, , 1.	1.1	1
839	Tuning the Wetting Properties of SiO ₂ -Based Nanofluids to Create Durable Surfaces with Special Wettability for Self-Cleaning, Anti-Fouling, and Oil-Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8005-8019.	1.8	6
840	Fast self-healing and antifouling polyurethane/fluorinated polysiloxane-microcapsules-silica composite material. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1899-1909.	9.9	38
841	Facile fabrication of multifunctional underwater superoleophobicity zwitterionic coating by surface-initiated redox polymerization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 649, 129463.	2.3	2
842	Recent Advances in Multifunctional Mechanical-Chemical Superhydrophobic Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	8
843	Fish scale inspired structures - a review of materials, manufacturing and models. <i>Bioinspiration and Biomimetics</i> , 0, , .	1.5	8
844	Selective Fabrication of Robust and Multifunctional Super Nonwetting Surfaces by Diverse Modifications of Zirconia-Ceria Nanocomposites. <i>Langmuir</i> , 2022, 38, 9195-9209.	1.6	6
845	Nanostructure-based Wettability Modification of TiAl6V4 Alloy Surface for Modulating Biofilm Production: Superhydrophilic, Superhydrophobic, and Slippery Surfaces. <i>Journal of Alloys and Compounds</i> , 2022, , 166492.	2.8	2
846	Physical mixing of a catalyst and a hydrophobic polymer promotes CO hydrogenation through dehydration. <i>Science</i> , 2022, 377, 406-410.	6.0	72
848	Chiral Liquid Crystalline Properties of Cellulose Nanocrystals: Fundamentals and Applications. <i>ACS Omega</i> , 2022, 7, 30673-30699.	1.6	24
849	On the wetting behavior of laser-microtextured stainless steel using Direct Laser Interference Patterning. <i>Surface and Coatings Technology</i> , 2022, 447, 128869.	2.2	4
850	Antibacterial Titanium Dioxide Coatings for Cocrmo Orthopaedic Implants. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
851	Functional Coating from Amyloid Superwetting Films. <i>Advanced Materials</i> , 2022, 34, .	11.1	8
852	Surface Wrinkling for Flexible and Stretchable Sensors. <i>Small</i> , 2022, 18, .	5.2	46
853	Highly Durable Antifogging Materials Based on Polysilsesquioxane with Double Hydrophilic Groups: Effect of Bridged Tetraethylene Glycol Chains in Polysilsesquioxane Films. <i>ACS Applied Polymer Materials</i> , 2022, 4, 7599-7606.	2.0	2
854	Influence of Laser Modification on the Surface Character of Biomaterials: Titanium and Its Alloys-A Review. <i>Coatings</i> , 2022, 12, 1371.	1.2	5
855	Silicon nanostructures and nanocomposites for antibacterial and theranostic applications. <i>Sensors and Actuators A: Physical</i> , 2022, 347, 113912.	2.0	4
856	Recent progress in the mechanisms, preparations and applications of polymeric antifogging coatings. <i>Advances in Colloid and Interface Science</i> , 2022, 309, 102794.	7.0	19

#	ARTICLE	IF	CITATIONS
857	Superhydrophobic and oleophobic Coatings from flower-like zinc oxide and fluorinated epoxy with good comprehensive property. <i>Surface and Interface Analysis</i> , 0, , .	0.8	0
858	Chopstick-Like Structure for the Free Transfer of Microdroplets in Robot Chemistry Laboratory. <i>Langmuir</i> , 2022, 38, 13150-13157.	1.6	1
859	Effects of controlled shot peening on multi-scale morphology and hydrophobicity of 316L stainless steel. <i>Digest Journal of Nanomaterials and Biostructures</i> , 2022, 17, 1151-1161.	0.3	0
860	Droplet Tweezers Based on the Hydrophilic-Hydrophobic Interface Structure and Their Biological Application. <i>Langmuir</i> , 2022, 38, 13522-13531.	1.6	0
861	Facile preparation of superhydrophobic/superoleophilic diatomite porous ceramics for efficient oil-water separation. <i>Journal of the Ceramic Society of Japan</i> , 2022, 130, 867-874.	0.5	0
862	Lotus leaf-like SiO ₂ nanofiber coating on polyvinylidene fluoride nanofiber membrane for water-in-oil emulsion separation and antifouling enhancement. <i>Chemical Engineering Journal</i> , 2023, 452, 139710.	6.6	28
863	Antibacterial titanium dioxide coatings for CoCrMo orthopaedic implants. <i>Applied Surface Science</i> , 2023, 609, 155300.	3.1	6
864	Mechanically Robust and Flexible GO/PI Hybrid Aerogels as Highly Efficient Oil Absorbents. <i>Polymers</i> , 2022, 14, 4903.	2.0	3
865	A new methodology for measuring solid/liquid interfacial energy. <i>Journal of Colloid and Interface Science</i> , 2023, 633, 800-807.	5.0	8
866	Durable Hydrophobic Polymer Coating on Silk Surface by Surfactant-aided Fluoro-monomer Polymerization Through Admicellar Technique. <i>Materials Today: Proceedings</i> , 2023, 73, 567-575.	0.9	0
867	Comparative of diatom frustules, diatomite, and silica particles for constructing self-healing superhydrophobic materials with capacity for thermal energy storage. <i>Applied Energy</i> , 2023, 332, 120482.	5.1	5
868	Drop impact dynamics on solid surfaces. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	27
869	Biomimetic Superhydrophobic Materials Construct from Binary Structure: A Review on Design, Properties, and Applications. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	5
870	Self-Healing Superwetting Surfaces, Their Fabrications, and Properties. <i>Chemical Reviews</i> , 2023, 123, 663-700.	23.0	18
871	Enhancing Electrocatalytic Hydrodechlorination through Interfacial Microenvironment Modulation. <i>Environmental Science & Technology</i> , 2023, 57, 1499-1509.	4.6	20
872	Experimental study of the influence of the epoxy resin modification with additives on the contact angle. <i>International Journal of Polymer Analysis and Characterization</i> , 2023, 28, 192-199.	0.9	0
873	Cubic MOF coated stainless steel mesh with underwater superoleophobicity for highly efficient oil/water separation. <i>Materials Chemistry and Physics</i> , 2023, 297, 127346.	2.0	5
874	Bioinspired Graphene Oxide-Magnetite Nanocomposite Coatings as Protective Superhydrophobic Antifouling Surfaces. <i>Langmuir</i> , 2023, 39, 2333-2346.	1.6	13

#	ARTICLE	IF	CITATIONS
875	Bubble evolution and transport in PEM water electrolysis: Mechanism, impact, and management. <i>Progress in Energy and Combustion Science</i> , 2023, 96, 101075.	15.8	54
876	Implementation of durable superhydrophobic surfaces through dilution rate control of the PDMS coating on micro-nano surface structures. <i>Polymer</i> , 2023, 275, 125929.	1.8	4
877	Hierarchical structured surfaces enhance the contact angle of the hydrophobic (meta-stable) state. <i>Journal of Chemical Physics</i> , 2023, 158, .	1.2	2
878	Natural and synthetic superhydrophobic surfaces: A review of the fundamentals, structures, and applications. <i>AEJ - Alexandria Engineering Journal</i> , 2023, 68, 587-609.	3.4	21
879	Ordered/Disordered Structures of Water at Solid/Liquid Interfaces. <i>Crystals</i> , 2023, 13, 263.	1.0	1
880	Omniphobic, ice-repellent, anti-bacterial, slippery liquid-infused porous surface (SLIPS) using sprayable chitin nanofiber coating. <i>Macromolecular Research</i> , 2023, 31, 65-74.	1.0	1
882	One-step synthesis of a robust, ultrathin, stretchable antifogging copolymer film. <i>Journal of Materials Chemistry C</i> , 2023, 11, 4318-4327.	2.7	3
883	Biomimetik YaklaÄ±mla SÄ¼perhidrofobik YÄ¼zey GeliÅtirilmesi. <i>Gazi Åniversitesi Fen Bilimleri Dergisi</i> , 0, , . 0.2		0
884	Evolution of wetting of a copper surface treated with nanosecond laser radiation. <i>Thermophysics and Aeromechanics</i> , 2022, 29, 941-950.	0.1	2
885	The Criterion of the CassieâBaxter and Wenzel Wetting Modes and the Effect of Elastic Substrates on It. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	7
886	Ultrahigh Electromagnetic Wave Transmitting Polyphenylene Sulfide Microcellular Foams Based on Molecular Structure Design for 5G Communication. <i>Industrial & Engineering Chemistry Research</i> , 2023, 62, 5850-5863.	1.8	8
887	An overview of atmospheric water harvesting methods, the inevitable path of the future in water supply. <i>RSC Advances</i> , 2023, 13, 10273-10307.	1.7	6
888	Electrolyte-philicity of electrode materials. <i>Chemical Communications</i> , 2023, 59, 6969-6986.	2.2	19
889	Flexibly designable wettability gradient for passive control of fluid motion via physical surface modification. <i>Scientific Reports</i> , 2023, 13, .	1.6	2
890	ElectrolyteâWettability Issues and Challenges of Electrode Materials in Electrochemical Energy Storage, Energy Conversion, and Beyond. <i>Advanced Science</i> , 2023, 10, .	5.6	16
894	Recent advances in prevailing antifogging surfaces: structures, materials, durability, and beyond. <i>Nanoscale</i> , 0, , .	2.8	1
910	Approaches for Sensor Surfaces Modification. , 2024, , 1-30.		0