

Bio-inspired superoleophobic and smart materials: Des

Progress in Materials Science

58, 503-564

DOI: [10.1016/j.pmatsci.2012.11.001](https://doi.org/10.1016/j.pmatsci.2012.11.001)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic copper mesh films with rapid oil/water separation properties by electrochemical deposition inspired from butterfly wing. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	80
2	Superhydrophobic Lignocellulosic Wood Fiber/Mineral Networks. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9057-9066.	4.0	26
3	Unusual Dynamic Dewetting Behavior of Smooth Perfluorinated Hybrid Films: Potential Advantages over Conventional Textured and Liquid-Infused Perfluorinated Surfaces. <i>Langmuir</i> , 2013, 29, 12472-12482.	1.6	50
4	Self-assembled biomimetic superhydrophobic hierarchical arrays. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 51-57.	5.0	44
5	Transparent Superhydrophobic/Translucent Superamphiphobic Coatings Based on Silica-Fluoropolymer Hybrid Nanoparticles. <i>Langmuir</i> , 2013, 29, 15051-15057.	1.6	139
6	One-pot sonochemical synthesis of superhydrophobic organic-inorganic hybrid coatings on cotton cellulose. <i>Cellulose</i> , 2013, 20, 3039-3051.	2.4	37
7	Fabrication of Liquid and Vapor Protective Cotton Fabrics. <i>Langmuir</i> , 2013, 29, 15043-15050.	1.6	13
8	A self-cleaning underwater superoleophobic mesh for oil-water separation. <i>Scientific Reports</i> , 2013, 3, 2326.	1.6	252
9	Smooth Perfluorinated Surfaces with Different Chemical and Physical Natures: Their Unusual Dynamic Dewetting Behavior toward Polar and Nonpolar Liquids. <i>Langmuir</i> , 2013, 29, 11322-11329.	1.6	82
10	Nanoparticles assembly-induced special wettability for bio-inspired materials. <i>Particuology</i> , 2013, 11, 361-370.	2.0	22
11	Robust Superhydrophobic/Superoleophilic Sponge for Effective Continuous Absorption and Expulsion of Oil Pollutants from Water. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8861-8864.	4.0	386
12	Patterned photonic crystals fabricated by inkjet printing. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6048.	2.7	97
13	Cell adhesion promotion strategies for signal transduction enhancement in microelectrode array in vitro electrophysiology: An introductory overview and critical discussion. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 481-492.	3.4	79
14	Photoinduced Underwater Superoleophobicity of TiO ₂ Thin Films. <i>Langmuir</i> , 2013, 29, 6784-6789.	1.6	85
15	Application and Performance of 3D Printing in Nanobiomaterials. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	1.5	31
16	Effect of Surface Microstructures on Hydrophobicity and Barrier Property of Anticorrosive Coatings Prepared by Soft Lithography. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-7.	1.0	50
17	Superoleophobic Surfaces on Al and Mg Alloy Substrates Through Rapid Surface Micro/Nanometer-Scale Structuring. , 2014, , .		1
18	Superhydrophobic anti-ultraviolet films by doctor blade coating. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	13

#	ARTICLE	IF	CITATIONS
20	Optimization of amphiphobic structural surface thickness in relation to its functionality on stainless steel plates. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	3
21	Bioinspired polyethylene terephthalate nanocone arrays with underwater superoleophobicity and anti-bioadhesion properties. <i>Nanoscale</i> , 2014, 6, 13845-13853.	2.8	70
22	Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions. <i>Advanced Functional Materials</i> , 2014, 24, 2721-2726.	7.8	46
23	Superhydrophobic polyimide films with high thermal endurance via UV photo-oxidation. <i>EXPRESS Polymer Letters</i> , 2014, 8, 588-595.	1.1	12
24	Superhydrophobic Polyimide via UV Photo-Oxidation and Fluoroalkyl Silanization: Changes in Surface Chemistry. <i>Advanced Materials Research</i> , 0, 1082, 463-466.	0.3	0
25	The use of superporous p(AAc (acrylic acid)) cryogels as support for Co and Ni nanoparticle preparation and as reactor in H ₂ production from sodium borohydride hydrolysis. <i>Energy</i> , 2014, 71, 170-179.	4.5	78
26	Superamphiphobic aluminum alloy surfaces with micro and nanoscale hierarchical roughness produced by a simple and environmentally friendly technique. <i>Journal of Materials Science</i> , 2014, 49, 1839-1853.	1.7	57
27	Super-non-wettable surfaces: A review. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 448, 93-106.	2.3	144
28	Fluorinated Raspberry-like Polymer Particles for Superamphiphobic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2629-2638.	4.0	99
29	Facile fabrication of translucent superamphiphobic coating on paper to prevent liquid pollution. <i>Chemical Engineering Journal</i> , 2014, 246, 238-243.	6.6	105
30	Nanocomposite films prepared from stabilized aqueous SiO ₂ sols. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 129-133.	1.5	2
32	Enhancement of the Superoleophobic Properties of Fluorinated PEDOP Using Polar Glycol Spacers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26912-26920.	1.5	22
33	Bioinspired Fabrication of Superhydrophobic Graphene Films by Two-Beam Laser Interference. <i>Advanced Functional Materials</i> , 2014, 24, 4595-4602.	7.8	118
34	Design and understanding of superhydrophobic ZnO nanorod arrays with controllable water adhesion. <i>Surface and Coatings Technology</i> , 2014, 258, 200-205.	2.2	12
35	Two-Fluid Wetting Behavior of a Hydrophobic Silicon Nanowire Array. <i>Langmuir</i> , 2014, 30, 13330-13337.	1.6	7
36	Hydrophobic coating on glass surfaces via application of silicone oil and activated using a microwave atmospheric plasma jet. <i>Surface and Coatings Technology</i> , 2014, 259, 7-11.	2.2	28
37	A switchable mesh for on-demand oil-water separation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15284.	5.2	37
38	Fabrication of superamphiphobic-textured surfaces with reversibly switchable wettability. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 1687-1694.	1.4	7

#	ARTICLE	IF	CITATIONS
39	Magnetically driven super durable superhydrophobic polyester materials for oil/water separation. <i>Polymer Chemistry</i> , 2014, 5, 2382.	1.9	90
40	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
41	Fabrication of superoleophobic surfaces with controllable liquid adhesion from polyelectrolyte multilayer film. <i>RSC Advances</i> , 2014, 4, 14227-14232.	1.7	16
42	Self-Driven One-Step Oil Removal from Oil Spill on Water via Selective-Wettability Steel Mesh. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19858-19865.	4.0	226
43	The design and applications of superomniphobic surfaces. <i>NPG Asia Materials</i> , 2014, 6, e109-e109.	3.8	314
44	Study on superhydrophobic surfaces of octanol grafted electrospun silica nanofibers. <i>Materials Chemistry and Physics</i> , 2014, 148, 798-802.	2.0	13
45	pH-responsive smart fabrics with controllable wettability in different surroundings. <i>RSC Advances</i> , 2014, 4, 14684.	1.7	45
46	Wetting behavior and remarkable durability of amphiphobic aluminum alloys surfaces in a wide range of environmental conditions. <i>Chemical Engineering Journal</i> , 2014, 258, 101-109.	6.6	34
47	Interfacial Material System Exhibiting Superwettability. <i>Advanced Materials</i> , 2014, 26, 6872-6897.	11.1	448
48	Solvent-controlled growth of silicone nanofilaments. <i>RSC Advances</i> , 2014, 4, 33424-33430.	1.7	7
49	Bio-Inspired Titanium Dioxide Materials with Special Wettability and Their Applications. <i>Chemical Reviews</i> , 2014, 114, 10044-10094.	23.0	489
50	Smart Composite Nanosheets with Adaptive Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13339-13343.	4.0	28
51	Omniphobic Membrane for Robust Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2014, 1, 443-447.	3.9	288
52	Asymmetrically superhydrophobic cotton fabrics fabricated by mist polymerization of lauryl methacrylate. <i>Cellulose</i> , 2014, 21, 2983-2994.	2.4	72
53	Definitions for Hydrophilicity, Hydrophobicity, and Superhydrophobicity: Getting the Basics Right. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 686-688.	2.1	575
54	Combining hierarchical surface roughness with fluorinated surface chemistry to preserve superhydrophobicity after organic contamination. <i>Applied Surface Science</i> , 2014, 320, 658-663.	3.1	15
55	The influence of surface modification on the physicochemical properties of ceramic membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 567-575.	2.3	53
56	A review on "self-cleaning and multifunctional materials"™. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14773-14797.	5.2	387

#	ARTICLE	IF	CITATIONS
57	Spray-Deposition and Photopolymerization of Organic-Inorganic Thiol-ene Resins for Fabrication of Superamphiphobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10763-10774.	4.0	76
58	Superhydrophilic and superoleophobic chitosan-based nanocomposite coatings for oil/water separation. <i>Cellulose</i> , 2014, 21, 1851-1857.	2.4	88
59	Pinning and wetting stability of liquids on superoleophobic textured surfaces. <i>Surface Innovations</i> , 2014, 2, 103-115.	1.4	3
62	Protonated Melamine Sponge for Effective Oil/Water Separation. <i>Scientific Reports</i> , 2015, 5, 14294.	1.6	55
63	Reversible Control of Underwater Oil Wettability of a Titanium Dioxide Surface through Ultraviolet and Ultrasonic Irradiation. <i>Chemistry Letters</i> , 2015, 44, 262-264.	0.7	1
64	Path Following and Shape Morphing With a Continuous Slender Mechanism. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	0.9	2
65	A superhydrophobic film with high water vapor transmission prepared from block copolymer micelle solution via VIPS method. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	7
66	Ä–l/Wasser-Ärennung mit selektiven superabweisenden/superbenetzbaren OberflÄchenmaterialien. <i>Angewandte Chemie</i> , 2015, 127, 2358-2368.	1.6	32
68	Superhydrophobic “Pump” Continuous and Spontaneous Antigravity Water Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 4114-4119.	7.8	111
69	Highly Polar Linkers (Urea, Carbamate, Thiocarbamate) for Superoleophobic/Superhydrophobic or Oleophobic/Hydrophilic Properties. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500081.	1.9	33
70	Preparation of amphiphobic coating by combining fluoroalkyl silane with nano-SiO ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 259-264.	0.8	6
71	Control over Water Adhesion on Nanostructured Parahydrophobic Films Using Mesh Substrates. <i>ChemNanoMat</i> , 2015, 1, 497-501.	1.5	6
72	Superhydrophobic Textiles: Review of Theoretical Definitions, Fabrication and Functional Evaluation. <i>Journal of Engineered Fibers and Fabrics</i> , 2015, 10, 155892501501000.	0.5	22
73	Superhydrophobic Polyimide via Ultraviolet Photooxidation: The Evolution of Surface Morphology and Hydrophobicity under Different Ultraviolet Intensities. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	0
74	Superomniphobic and Easily Repairable Coatings on Copper Substrates Based on Simple Immersion or Spray Processes. <i>Langmuir</i> , 2015, 31, 3465-3472.	1.6	45
75	Hierarchically nanostructured CeO ₂ films with superhydrophilicity and corrosion resistance by coupling of surface topography and oxygen vacancies. <i>Materials Chemistry and Physics</i> , 2015, 160, 406-412.	2.0	12
76	Modeling non-wetting performances of superlyophobic surfaces based on local contact line. , 2015, , .		0
77	Preparation and Surface Property of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomer/Talc Composite-Encapsulated Organic Compounds: Application for the Separation of Oil and Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13782-13793.	4.0	39

#	ARTICLE	IF	CITATIONS
78	Superhydrophobic coatings fabricated with polytetrafluoroethylene and SiO ₂ nanoparticles by spraying process on carbon steel surfaces. <i>Applied Surface Science</i> , 2015, 349, 724-732.	3.1	86
79	Modeling Pressure Stability and Contact-Angle Hysteresis of Superlyophobic Surfaces Based on Local Contact Line. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12916-12922.	1.5	13
80	Waterâ€‘surface interactions and definitions for hydrophilicity, hydrophobicity and superhydrophobicity. <i>Pure and Applied Chemistry</i> , 2015, 87, 759-765.	0.9	46
81	Application of surface modification in hydrophobic and oleophobic materials research. <i>Materials Research Innovations</i> , 2015, 19, S10-207-S10-210.	1.0	8
82	Hybrid one-dimensional nanostructure based on biomorphic porous SiO ₂ through in-situ catalytic pyrolysis of rice husk. <i>Ceramics International</i> , 2015, 41, 6089-6097.	2.3	9
83	Assembling Mixed Carboxylic Acid Molecules on Hierarchical Structured Aluminum Substrates for the Fabrication of Superoleophobic Surfaces with Controlled Oil Adhesion. <i>ChemPlusChem</i> , 2015, 80, 151-157.	1.3	3
84	Enhanced superhydrophilicity and thermal stability of ITO surface with patterned ceria coatings. <i>Applied Surface Science</i> , 2015, 329, 11-16.	3.1	6
85	Underwater Self-Cleaning Scaly Fabric Membrane for Oily Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4336-4343.	4.0	113
86	Nanostructured Architectures by Assembling Polysaccharideâ€‘Coated BSA Nanoparticles for Biomedical Application. <i>Advanced Healthcare Materials</i> , 2015, 4, 927-937.	3.9	30
87	Tuning 3D topography on biomimetic surface for efficient self-cleaning and microfluidic manipulation. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035001.	1.5	27
88	Simple and Cost-Effective Fabrication of Highly Flexible, Transparent Superhydrophobic Films with Hierarchical Surface Design. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5289-5295.	4.0	30
89	pH-Controllable On-Demand Oil/Water Separation on the Switchable Superhydrophobic/Superhydrophilic and Underwater Low-Adhesive Superoleophobic Copper Mesh Film. <i>Langmuir</i> , 2015, 31, 1393-1399.	1.6	213
90	Facile creation of superoleophobic and superhydrophilic surface by using fluoroalkyl end-capped vinyltrimethoxysilane oligomer/calcium silicide nanocompositesâ€‘development of these nanocomposites to environmental cyclical type-fluorine recycle through formation of calcium fluoride. <i>Colloid and Polymer Science</i> , 2015, 293, 65-73.	1.0	27
91	Electrical Switch for Smart pH Self-Adjusting System Based on Silver Nanowire/Polyaniline Nanocomposite Film. <i>ACS Nano</i> , 2015, 9, 3234-3242.	7.3	41
92	Enhancing the low surface energy properties of polymer films with a dangling shell of fluorinated block-copolymer. <i>Applied Surface Science</i> , 2015, 338, 190-196.	3.1	19
93	Fabrication of oleophobic paper with tunable hydrophilicity by treatment with non-fluorinated chemicals. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14651-14660.	5.2	42
94	Biomimetic superhydrophobic surfaces by combining mussel-inspired adhesion with lotus-inspired coating. <i>Nanotechnology</i> , 2015, 26, 335602.	1.3	39
95	Formation, transformation and superhydrophobicity of compound surfactant-assisted aligned ZnO nanoplatelets. <i>Applied Surface Science</i> , 2015, 355, 1063-1068.	3.1	5

#	ARTICLE	IF	CITATIONS
96	Anthraquinone dyes for superhydrophobic cotton. <i>Chemical Communications</i> , 2015, 51, 14251-14254.	2.2	27
97	Functional map of biological and biomimetic materials with hierarchical surface structures. <i>RSC Advances</i> , 2015, 5, 66901-66926.	1.7	43
98	Recoating/plasma driven rewritable and erasable superhydrophobicity on CuO surfaces. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 1893-1901.	1.4	1
99	Overview of PES biocompatible/hemodialysis membranes: PES's blood interactions and modification techniques. <i>Materials Science and Engineering C</i> , 2015, 56, 574-592.	3.8	99
100	Alignment engineering in liquid crystalline elastomers: Free-form microstructures with multiple functionalities. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	56
101	Sol-gel route for the building up of superhydrophobic nanostructured hybrid-coatings on copper surfaces. <i>Surface and Coatings Technology</i> , 2015, 276, 408-415.	2.2	29
102	Super-fast hydrogen generation via super porous Q-P(VI)-M cryogel catalyst systems from hydrolysis of NaBH ₄ . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4605-4616.	3.8	30
103	Hierarchical Structure and Multifunctional Surface Properties of Carnivorous Pitcher Plants <i>Nepenthes</i> . <i>Jom</i> , 2015, 67, 744-753.	0.9	20
104	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
105	Recent Advances in Nanocomposite Coatings for Corrosion Protection Applications. , 2015, , 515-549.		25
106	Super-amphiphilic surface of nano silica/polyurethane hybrid coated PET film via a plasma treatment. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 209-215.	5.0	26
107	Sputtered Ag thin films with modified morphologies: Influence on wetting property. <i>Applied Surface Science</i> , 2015, 347, 101-108.	3.1	16
108	Facile creation of superoleophobic and superhydrophilic surface by using perfluoropolyether dicarboxylic acid/silica nanocomposites. <i>Polymers for Advanced Technologies</i> , 2015, 26, 345-352.	1.6	17
109	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
110	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
111	PhotoATRP-Based Fluorinated Thermosensitive Block Copolymer for Controllable Water/Oil Separation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10714-10722.	1.8	48
112	Switchable and reversible superhydrophobic and oleophobic surfaces by redox response using covalent S-S bond. <i>Reactive and Functional Polymers</i> , 2015, 96, 44-49.	2.0	11
113	Multifunctional Engineering Aluminum Surfaces for Self-Propelled Anti-Condensation. <i>Advanced Engineering Materials</i> , 2015, 17, 961-968.	1.6	21

#	ARTICLE	IF	CITATIONS
114	An Ingenious Super Light Trapping Surface Templated from Butterfly Wing Scales. <i>Nanoscale Research Letters</i> , 2015, 10, 1052.	3.1	19
115	Super dewetting surfaces: Focusing on their design and fabrication methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 528-546.	2.3	30
116	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
117	Recent advances in engineering topography mediated antibacterial surfaces. <i>Nanoscale</i> , 2015, 7, 15568-15575.	2.8	143
118	Plasma deposited fluorinated films on porous membranes. <i>Materials Chemistry and Physics</i> , 2015, 151, 233-242.	2.0	31
119	Graphene Foam with Switchable Oil Wettability for Oil and Organic Solvents Recovery. <i>Advanced Functional Materials</i> , 2015, 25, 597-605.	7.8	138
120	Ultrafiltration Membranes with Structure-Optimized Graphene-Oxide Coatings for Antifouling Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400433.	1.9	129
121	Oil/Water Separation with Selective Superantiwetting/Superwetting Surface Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2328-2338.	7.2	1,078
122	Hierarchical micro and nano structured, hydrophilic, superhydrophobic and superoleophobic surfaces incorporated in microfluidics, microarrays and lab on chip microsystems. <i>Microelectronic Engineering</i> , 2015, 132, 135-155.	1.1	187
123	Preparation and properties of fluorinated aliphatic alcohols/silica nanocomposites – Application to the encapsulation of anatase titanium oxide nanoparticles into these composite cores. <i>Composites Part B: Engineering</i> , 2015, 70, 80-91.	5.9	3
124	Hierarchically textured surfaces of versatile alloys for superamphiphobicity. <i>Materials Letters</i> , 2015, 138, 184-187.	1.3	16
126	A Review of Natural Joint Systems and Numerical Investigation of Bio-Inspired GFRP-to-Steel Joints. <i>Materials</i> , 2016, 9, 566.	1.3	6
128	Bioinspired few-layer graphene prepared by chemical vapor deposition on femtosecond laser-structured Cu foil. <i>Laser and Photonics Reviews</i> , 2016, 10, 441-450.	4.4	46
129	Reversible wettability between superhydrophobicity and superhydrophilicity of Ag surface. <i>Science China Materials</i> , 2016, 59, 348-354.	3.5	28
130	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2016, 801, 670-703.	1.4	83
131	Reversible transition between superhydrophobicity and superhydrophilicity of a silver surface. <i>Surface and Coatings Technology</i> , 2016, 294, 47-53.	2.2	18
132	Superhydrophobic, superoleophobic coatings for the protection of silk textiles. <i>Progress in Organic Coatings</i> , 2016, 97, 44-52.	1.9	77
133	Preparation of robust anti-smudge coatings via electrophoretic deposition. <i>Chemical Engineering Journal</i> , 2016, 302, 744-751.	6.6	29

#	ARTICLE	IF	CITATIONS
134	Hybrid nanocomposite coating by sol-gel method: a review. Iranian Polymer Journal (English Edition), 2016, 25, 559-577.	1.3	88
135	Facile creation of modified surface possessing the controlled wettability between superamphiphobic and superoleophobic-superhydrophilic characteristics by using perfluorocarboxamides/calcium carbonate/calcium fluoride nanocomposites: Application to the separation of oil and water. Journal of Composite Materials, 2016, 50, 3831-3842.	1.2	2
136	Superhydrophobic surface fabricated on iron substrate by black chromium electrodeposition and its corrosion resistance property. Applied Surface Science, 2016, 378, 388-396.	3.1	22
137	Ultra low water adhesive metal surface for enhanced corrosion protection. RSC Advances, 2016, 6, 40641-40649.	1.7	21
138	Fabrication of Superhydrophobic-Superoleophilic Fabrics by an Etching and Dip-Coating Two-Step Method for Oil-Water Separation. Industrial & Engineering Chemistry Research, 2016, 55, 5030-5035.	1.8	91
139	Development of Ominiphobic Desalination Membranes Using a Charged Electrospun Nanofiber Scaffold. ACS Applied Materials & Interfaces, 2016, 8, 11154-11161.	4.0	218
140	The effect of polar end of long-chain fluorocarbon oligomers in promoting the superamphiphobic property over multi-scale rough Al alloy surfaces. Applied Surface Science, 2016, 379, 55-65.	3.1	30
141	Fabrication, characterization and water wetting behavior of mesoscale 1D/2D periodic structured silica-zirconia sol-gel thin films. RSC Advances, 2016, 6, 46048-46059.	1.7	8
142	Facile electrodeposition of superhydrophobic and oil-repellent thick layers on steel substrate. Materials Letters, 2016, 184, 243-247.	1.3	13
143	Functional interface based on silicon artificial chamfer nanocylinder arrays (CNCAs) with underwater superoleophobicity and anisotropic properties. Nano Research, 2016, 9, 3141-3151.	5.8	13
144	Advanced Sorbents for Oil-Spill Cleanup: Recent Advances and Future Perspectives. Advanced Materials, 2016, 28, 10459-10490.	11.1	547
145	Superhydrophobic polysiloxane filament growth on non-activated polymer coatings. RSC Advances, 2016, 6, 74921-74928.	1.7	12
147	A new replication method for fabricating hierarchical polymer surfaces with robust superhydrophobicity and highly improved oleophobicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 7-17.	2.3	18
148	A Critical Review of Dynamic Wetting by Complex Fluids: From Newtonian Fluids to Non-Newtonian Fluids and Nanofluids. Advances in Colloid and Interface Science, 2016, 236, 43-62.	7.0	146
149	A rapid one-step electrodeposition process for fabrication of superhydrophobic surfaces on anode and cathode. Journal of Central South University, 2016, 23, 1576-1583.	1.2	3
150	Roles of silanes and silicones in forming superhydrophobic and superoleophobic materials. Journal of Materials Chemistry A, 2016, 4, 13677-13725.	5.2	215
151	Fabrication of the hierarchically roughened bumpy-surface topography for the long-lasting highly oleophobic-lotus effect-on cotton fibres. Cellulose, 2016, 23, 3301-3318.	2.4	14
152	Methyltrichlorosilane polysiloxane filament growth on glass using low cost solvents and comparison with gas phase reactions. Thin Solid Films, 2016, 616, 101-110.	0.8	17

#	ARTICLE	IF	CITATIONS
153	Tuning the wetting properties of siloxane-nanoparticle coatings to induce superhydrophobicity and superoleophobicity for stone protection. <i>Materials and Design</i> , 2016, 108, 736-744.	3.3	77
154	Preparation and thermal stability of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/poly(acrylonitrile-co-butadiene) nanocompositesâ€™ application to the separation of oil and water. <i>Colloid and Polymer Science</i> , 2016, 294, 1529-1539.	1.0	3
155	Candle-Soot Derived Photoactive and Superamphiphobic Fractal Titania Electrode. <i>Chemistry of Materials</i> , 2016, 28, 7919-7927.	3.2	36
156	Recent Development in Durable Superâ€™Liquidâ€™Repellent Fabrics. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600402.	1.9	38
157	An Aqueous Process for Durable Superamphiphobic Diblock Copolymer Coatings on Fabrics. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500693.	1.9	23
158	Artificial Molecular Machine Immobilized Surfaces: A New Platform To Construct Functional Materials. <i>ChemPhysChem</i> , 2016, 17, 1759-1768.	1.0	36
159	One-pot fabrication of fluoride-silica@silica raspberry-like nanoparticles for superhydrophobic coating. <i>Ceramics International</i> , 2016, 42, 14601-14608.	2.3	23
160	Nano/Microâ€™Manufacturing of Bioinspired Materials: a Review of Methods to Mimic Natural Structures. <i>Advanced Materials</i> , 2016, 28, 6292-6321.	11.1	332
161	A new approach to understand the Cassie state of liquids on superamphiphobic materials. <i>Nanoscale</i> , 2016, 8, 3031-3039.	2.8	57
162	Bioinspired Interfaces with Superwettability: From Materials to Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 1727-1748.	6.6	933
163	Semitransparent superoleophobic coatings with low sliding angles for hot liquids based on silica nanotubes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 953-960.	5.2	44
164	Superamphiphobic Silicon-Nanowire-Embedded Microsystem and In-Contact Flow Performance of Gas and Liquid Streams. <i>ACS Nano</i> , 2016, 10, 1156-1162.	7.3	23
165	Ultrasound-assisted recovery of free-standing high-aspect-ratio micropillars. <i>RSC Advances</i> , 2016, 6, 16640-16644.	1.7	10
166	Recent advances in oil-repellent surfaces. <i>International Materials Reviews</i> , 2016, 61, 101-126.	9.4	52
167	Environmental Applications of Interfacial Materials with Special Wettability. <i>Environmental Science & Technology</i> , 2016, 50, 2132-2150.	4.6	273
168	Amphiphobic nanocellulose-modified paper: fabrication and evaluation. <i>RSC Advances</i> , 2016, 6, 13328-13334.	1.7	26
169	Dopamine/Silica Nanoparticle Assembled, Microscale Porous Structure for Versatile Superamphiphobic Coating. <i>ACS Nano</i> , 2016, 10, 2910-2921.	7.3	107
170	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

#	ARTICLE	IF	CITATIONS
171	A stable superamphiphobic Zn coating with self-cleaning property on steel surface fabricated via a deposition method. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 411-420.	2.7	14
172	One-dimensional photonic crystals: fabrication, responsiveness and emerging applications in 3D construction. RSC Advances, 2016, 6, 4505-4520.	1.7	110
173	Developing superhydrophobic and oleophobic nanostructure by a facile chemical transformation of zirconium hydroxide surface. Applied Surface Science, 2016, 363, 346-355.	3.1	20
174	Structure and Phase Transitions of Polymer Liquid Crystals, Revealed by Means of Differential Scanning Calorimetry, Real-Time Synchrotron WAXD, MAXS and SAXS and Microscopy. , 2016, , 19-52.		1
175	Surface Wetting. , 2016, , .		70
176	The facile preparation of self-cleaning fabrics. Composites Science and Technology, 2016, 122, 1-9.	3.8	39
177	Superhydrophobic surfaces for corrosion protection: a review of recent progresses and future directions. Journal of Coatings Technology Research, 2016, 13, 11-29.	1.2	296
178	Preparation of superamphiphobic polymer-based coatings via spray- and dip-coating strategies. Progress in Organic Coatings, 2016, 90, 463-471.	1.9	72
179	The springtail cuticle as a blueprint for omniphobic surfaces. Chemical Society Reviews, 2016, 45, 323-341.	18.7	191
180	Special oleophobic and hydrophilic surfaces: approaches, mechanisms, and applications. Journal of Materials Chemistry A, 2017, 5, 3759-3773.	5.2	223
181	Water purification: oil/water separation by nanotechnology and environmental concerns. Environmental Science: Nano, 2017, 4, 514-525.	2.2	122
182	One-pot Staudinger Ureation reaction to develop superhydrophobic/oleophobic surfaces with urea linkers. Materials and Design, 2017, 114, 116-122.	3.3	5
183	Stretchable superlyophobic surfaces for nearly- lossless droplet transfer. Sensors and Actuators B: Chemical, 2017, 244, 649-654.	4.0	52
184	Recent progress in marine foul-release polymeric nanocomposite coatings. Progress in Materials Science, 2017, 87, 1-32.	16.0	358
185	Fabrication techniques for bioinspired, mechanically-durable, superliquiphobic surfaces for water, oil, and surfactant repellency. Advances in Colloid and Interface Science, 2017, 241, 1-23.	7.0	56
186	Biom mineralization: From Material Tactics to Biological Strategy. Advanced Materials, 2017, 29, 1605903.	11.1	239
188	Modification of wetting property of Inconel 718 surface by nanosecond laser texturing. Applied Surface Science, 2017, 414, 313-324.	3.1	106
189	Catalytic dehydrogenation of calcium borohydride by using hydrogel catalyst. International Journal of Hydrogen Energy, 2017, 42, 17869-17873.	3.8	7

#	ARTICLE	IF	CITATIONS
190	A novel reusable superhydrophilic NiO/Ni mesh produced by a facile fabrication method for superior oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10821-10826.	5.2	103
191	Metamorphic Superomniphobic Surfaces. <i>Advanced Materials</i> , 2017, 29, 1700295.	11.1	104
192	Superhydrophobic hBN-Regulated Sponges with Excellent Absorbency Fabricated Using a Green and Facile Method. <i>Scientific Reports</i> , 2017, 7, 45065.	1.6	20
193	Outmatching superhydrophobicity: bio-inspired re-entrant curvature for mighty superamphiphobicity in air. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14480-14507.	5.2	75
194	Tuning the superhydrophobicity of magnesium stearate decorated ZnO porous structures for self-cleaning urinary coatings. <i>Applied Surface Science</i> , 2017, 423, 293-304.	3.1	13
195	Preparation of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/phosphonic acids nanocomposites possessing superoleophobic/superhydrophilic and superoleophilic/superhydrophobic characteristics: application of these nanocomposites to the separation of oil and water. <i>Journal of Coatings Technology Research</i> , 2017, 14, 1183-1193.	1.2	1
196	Durable and self-healing superhydrophobic surface with bistratal gas layers prepared by electrospinning and hydrothermal processes. <i>Chemical Engineering Journal</i> , 2017, 326, 578-586.	6.6	38
197	Preparation and characterization of underwater superoleophobic chitosan/poly(vinyl alcohol) coatings for self-cleaning and oil/water separation. <i>Applied Surface Science</i> , 2017, 412, 10-18.	3.1	38
198	A green one-step fabrication of superhydrophobic metallic surfaces of aluminum and zinc. <i>Journal of Alloys and Compounds</i> , 2017, 711, 506-513.	2.8	42
199	Peristaltic Wave Locomotion and Shape Morphing with a Millipede Inspired System. <i>Journal of Nonlinear Science</i> , 2017, 27, 1093-1119.	1.0	5
200	Underwater Transparent Miniature "Mechanical Hand" Based on Femtosecond Laser-Induced Controllable Oil-Adhesive Patterned Glass for Oil Droplet Manipulation. <i>Langmuir</i> , 2017, 33, 3659-3665.	1.6	23
201	Colorful Superamphiphobic Coatings with Low Sliding Angles and High Durability Based on Natural Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1941-1952.	4.0	88
202	Durable, Transparent, and Hot Liquid Repelling Superamphiphobic Coatings from Polysiloxane-Modified Multiwalled Carbon Nanotubes. <i>Langmuir</i> , 2017, 33, 510-518.	1.6	77
203	Durable superhydrophobic and superamphiphobic polymeric surfaces and their applications: A review. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 132-157.	7.0	203
204	Mass-producible hydrophobic perfluoroalkoxy/nano-silver coatings by suspension flame spraying for antifouling and drag reduction applications. <i>Surface and Coatings Technology</i> , 2017, 328, 115-120.	2.2	26
205	Biomimetic super hydrophobic structured graphene on stainless steel surface by laser processing and transfer technology. <i>Surface and Coatings Technology</i> , 2017, 328, 152-160.	2.2	24
206	A facile method to fabricate surfaces showing superhydrophilicity in air and superhydrophobicity in oil. <i>Science China Technological Sciences</i> , 2017, 60, 1724-1731.	2.0	3
207	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

#	ARTICLE	IF	CITATIONS
208	Fabrication of Polydimethylsiloxane films with special surface wettability by 3D printing. <i>Composites Part B: Engineering</i> , 2017, 129, 58-65.	5.9	55
209	Understanding the mechanism for building woven fabrics with wettability ranging from superhydrophobic to superamphiphobic via an aqueous process. <i>Reactive and Functional Polymers</i> , 2017, 119, 75-81.	2.0	5
210	Closed Pore Structured NiCo ₂ O ₄ -Coated Nickel Foams for Stable and Effective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29177-29184.	4.0	68
211	Superhydrophobic properties induced by sol-gel routes on copper surfaces. <i>Applied Surface Science</i> , 2017, 422, 1022-1029.	3.1	35
212	Superhydrophobic and Superoleophobic Surfaces in Composite Materials. , 2017, , 647-686.		1
213	Preparation of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/poly(tetrafluoroethylene) nanocomposites possessing a superoleophilic/superhydrophobic characteristic: application to the separation of oil and water. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 611-622.	1.1	11
214	Self-assembled hemispherical nanowell arrays for superhydrophobic antireflection coatings. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 174-180.	5.0	28
215	One-step modification of PU sponges for selective absorption of oil/water mixtures. <i>New Journal of Chemistry</i> , 2017, 41, 90-96.	1.4	24
216	Patterned surfaces for biological applications: A new platform using two dimensional structures as biomaterials. <i>Chinese Chemical Letters</i> , 2017, 28, 675-690.	4.8	28
217	Liquid Repellent coatings Inspired by the Secretion Function of Slug's Skin. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2017, 68, 132-137.	0.1	0
218	Composite coatings for implants and tissue engineering scaffolds. , 2017, , 111-138.		7
219	Bio-Inspired Polymeric Structures with Special Wettability and Their Applications: An Overview. <i>Polymers</i> , 2017, 9, 725.	2.0	44
220	Preparation of RF-(VM-SiO ₂) _n -RF/AM-Cellu Nanocomposites, and Use Thereof for the Modification of Glass and Filter Paper Surfaces: Creation of a Glass Thermoresponsive Switching Behavior and an Efficient Separation Paper Membrane. <i>Polymers</i> , 2017, 9, 92.	2.0	8
221	Frontier of Inorganic Synthesis and Preparative Chemistry (I) Biomimetic Synthesis. , 2017, , 687-721.		6
222	The investigation of equilibrium contact state of liquid droplet on determined rough surfaces. , 2017, , .		0
223	One-step fabrication of robust superhydrophobic and superoleophilic surfaces with self-cleaning and oil/water separation function. <i>Scientific Reports</i> , 2018, 8, 3869.	1.6	102
224	Superhydrophobic and oleophilic micro/nano hierarchical Pd-decorated SiO ₂ layers. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3817-3829.	1.9	5
225	Tunable Contact Angle Hysteresis for Component Placement on Stretchable Superhydrophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701353.	1.9	3

#	ARTICLE	IF	CITATIONS
226	Efficient removal of aerosol oil-mists using superoleophobic filters. <i>Journal of Materials Chemistry A</i> , 2018, 6, 871-877.	5.2	47
227	Bioinspired Interfacial Materials: From Binary Cooperative Complementary Interfaces to Superwettability Systems. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701176.	1.9	28
228	Stimuli-Responsive Bioinspired Materials for Controllable Liquid Manipulation: Principles, Fabrication, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1705128.	7.8	66
229	Evolution of copper oxide nanoneedle mesh with subtle regulated lyophobicity for high efficiency liquid separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 817-822.	5.2	31
230	Wettability control between superoleophobic and superoleophilic characteristics on the modified superhydrophobic surfaces treated with fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/poly(styrene-co-butadiene) nanocomposites: application to the separation of oil and water. <i>Journal of Coatings Technology Research</i> , 2018, 15, 211-222.	1.2	0
231	Mist harvesting using bioinspired polydopamine coating and microfabrication technology. <i>Desalination</i> , 2018, 429, 111-118.	4.0	80
232	Superhydrophobic Graphene/Cellulose/Silica Aerogel with Hierarchical Structure as Superabsorbers for High Efficiency Selective Oil Absorption and Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1745-1755.	1.8	69
233	Eco-friendly design of superhydrophobic nano-magnetite/silicone composites for marine foul-release paints. <i>Progress in Organic Coatings</i> , 2018, 116, 21-34.	1.9	90
234	Reed Leaf-Inspired Graphene Films with Anisotropic Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18416-18425.	4.0	43
235	Making strong polyelectrolyte brushes pH-sensitive by incorporation of gold nanoparticles. <i>Soft Matter</i> , 2018, 14, 4029-4039.	1.2	15
236	Influence of corrosion and surface roughness on wettability of ASTM A36 steels. <i>Journal of Constructional Steel Research</i> , 2018, 144, 310-326.	1.7	45
237	Novel superamphiphobic surfaces based on micro-nano hierarchical fluorinated Ag/SiO ₂ structures. <i>Applied Surface Science</i> , 2018, 445, 262-271.	3.1	29
238	Fuzzy based models for estimating static contact angle and sliding angle of liquid drops. <i>Progress in Organic Coatings</i> , 2018, 119, 183-193.	1.9	3
239	A Review of Femtosecond-Laser-Induced Underwater Superoleophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701370.	1.9	95
240	Preparation of transparent hydrophobic polymeric films spray-deposited on substrates. <i>Surface Engineering</i> , 2018, 34, 121-127.	1.1	10
241	Anti-fingerprint properties of engineering surfaces: a review. <i>Surface Engineering</i> , 2018, 34, 85-120.	1.1	51
242	Predicting wettability behavior of fluorosilica coated metal surface using optimum neural network. <i>Surface Science</i> , 2018, 668, 47-53.	0.8	8
243	Composite membrane with electrospun multiscale-textured surface for robust oil-fouling resistance in membrane distillation. <i>Journal of Membrane Science</i> , 2018, 546, 179-187.	4.1	83

#	ARTICLE	IF	CITATIONS
244	Bioinspired Photonic Materials: Prototypes and Structural Effect Designs for Applications in Solar Energy Manipulation. <i>Advanced Functional Materials</i> , 2018, 28, 1705309.	7.8	117
245	A novel dual-layer composite membrane with underwater-superoleophobic/hydrophobic asymmetric wettability for robust oil-fouling resistance in membrane distillation desalination. <i>Desalination</i> , 2018, 428, 240-249.	4.0	79
246	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1266-1277.	4.0	127
247	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
248	Development of liquid repellent coating on cotton fabric by simple binary silanization with excellent self-cleaning and oil-water separation properties. <i>Carbohydrate Polymers</i> , 2018, 181, 1052-1060.	5.1	53
249	Wetting Models and Working Mechanisms of Typical Surfaces Existing in Nature and Their Application on Superhydrophobic Surfaces: A Review. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701052.	1.9	102
250	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1707415.	7.8	206
251	Designing robust underwater superoleophobic microstructures on copper substrates. <i>Nanoscale</i> , 2018, 10, 20435-20442.	2.8	14
252	Preparation and corrosion resistance of superhydrophobic coatings on AZ31 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2287-2293.	1.7	30
253	Antireflective Transparent Oleophobic Surfaces by Noninteracting Cavities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43230-43235.	4.0	9
254	Development of steel coatings reinforced with nanoclay particles for corrosion and wear protection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 400, 072006.	0.3	1
255	Engineered Slippery Surface to Mitigate Gypsum Scaling in Membrane Distillation for Treatment of Hypersaline Industrial Wastewaters. <i>Environmental Science & Technology</i> , 2018, 52, 14362-14370.	4.6	148
256	Preparation of superhydrophobic and superoleophobic Al-Mg alloy surface via simple, environmentally friendly method. <i>Journal of Materials Research</i> , 2018, 33, 3818-3826.	1.2	6
257	A Geologic Architecture System-Inspired Micro-Nano-Heterostructure Design for High-Performance Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1802388.	10.2	65
258	Effect of superamphiphobic macrottextures on dynamics of viscous liquid droplets. <i>Scientific Reports</i> , 2018, 8, 15344.	1.6	36
259	Facile Preparation of Robust Superamphiphobic Surface by Electrochemical Etching Process Based on the SiC/Al Composites. <i>Journal of the Electrochemical Society</i> , 2018, 165, E563-E571.	1.3	7
260	One-step approach to prepare superhydrophobic wood with enhanced mechanical and chemical durability: Driving of alkali. <i>Applied Surface Science</i> , 2018, 455, 115-122.	3.1	51
261	Fast and highly reversible switching of wettability through macroscopic shape change. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11288-11295.	5.2	15

#	ARTICLE	IF	CITATIONS
262	Bioinspired Superwettability Electrospun Micro/Nanofibers and Their Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1801114.	7.8	204
263	Comparison of heuristic methods for developing optimized neural network based models to predict amphiphobic behavior of fluorosilica coated surfaces. <i>Surface and Coatings Technology</i> , 2018, 349, 289-295.	2.2	3
264	Nanocellulose: Extraction and application. <i>Carbon Resources Conversion</i> , 2018, 1, 32-43.	3.2	613
265	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
266	Microwave-assisted preparation of pyrite and its sensitisation of titanium dioxide in self-cleaning aramid fabrics. <i>Coloration Technology</i> , 2018, 134, 284-291.	0.7	9
267	Oligosilazane cured by moisture as fluorine-free hydrophobic coating for waterproof polymer-matrix composite materials. <i>Journal of Coatings Technology Research</i> , 2018, 15, 1251-1258.	1.2	7
268	Superhydrophobic Polypropylene Surfaces Prepared with TiO_2 Nanoparticles Functionalized by Dendritic Polymers. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2019-2029.	2.5	8
269	Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. <i>Coatings</i> , 2018, 8, 47.	1.2	21
270	High-precision digital droplet pipetting enabled by a plug-and-play microfluidic pipetting chip. <i>Lab on A Chip</i> , 2018, 18, 2720-2729.	3.1	26
271	Multifunctionalization of cotton fabrics with polyvinylsilsesquioxane/ZnO composite coatings. <i>Carbohydrate Polymers</i> , 2018, 199, 516-525.	5.1	65
272	Conductive Electrochemically Active Lubricant-Infused Nanostructured Surfaces Attenuate Coagulation and Enable Frictionless Droplet Manipulation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800617.	1.9	38
273	Study of anti-corrosion and anti-wear properties on superhydrophobic aluminium alloy surfaces. <i>Materials Science and Technology</i> , 2018, 34, 1861-1867.	0.8	14
274	Bio-Inspired Underwater Super Oil-Repellent Coatings for Anti-Oil Pollution. <i>Langmuir</i> , 2018, 34, 6063-6069.	1.6	21
275	3D mossy structures of zinc filaments: A facile strategy for superamphiphobic surface design. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 106-113.	5.0	11
276	Sliding and rolling behavior of water droplets on an ordered nanoball matrix fluorocarbon polymer layer under simulated weather conditions. <i>Surface Science</i> , 2018, 675, 91-98.	0.8	5
277	Effect of chemical structure of fluorinated polyhedral oligomeric silsesquioxanes on formation of Langmuir monolayers and Langmuir-Blodgett films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 556, 140-147.	2.3	12
278	Organic Bioelectronics: Materials and Biocompatibility. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2382.	1.8	102
279	A comparative study about superamphiphobicity and stability of superamphiphobic coatings based on Palygorskite. <i>Applied Clay Science</i> , 2018, 165, 8-16.	2.6	25

#	ARTICLE	IF	CITATIONS
280	Biomimetic Super Anti-Wetting Coatings from Natural Materials: Superamphiphobic Coatings Based on Nanoclays. <i>Scientific Reports</i> , 2018, 8, 12062.	1.6	24
282	On the Materials Science of Nature's Arms Race. <i>Advanced Materials</i> , 2018, 30, e1705220.	11.1	63
283	Coexistence of superhydrophilicity and superoleophobicity: theory, experiments and applications in oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15057-15063.	5.2	102
284	Recent Progress in Durable and Self-Healing Super-Nonwetable Fabrics. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800461.	1.9	49
285	Bio-inspired synthesis of 3-D network of NiO-Ni nanowires on carbonized eggshell membrane for lithium-ion batteries. <i>Chemical Engineering Science</i> , 2019, 194, 134-141.	1.9	23
286	Assessing omniphobicity by immersion. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 156-162.	5.0	38
287	Biomimetic polymeric superamphiphobic surfaces: their fabrication and applications. <i>Chemical Communications</i> , 2019, 55, 10820-10843.	2.2	36
288	Trade-off in membrane distillation with monolithic omniphobic membranes. <i>Nature Communications</i> , 2019, 10, 3220.	5.8	106
289	Triazine mediated covalent antibiotic grafting on cotton fabrics as a modular approach for developing antimicrobial barriers. <i>Cellulose</i> , 2019, 26, 7495-7505.	2.4	10
290	Creating Superhydrophobic Polymer Surfaces with Superstrong Resistance to Harsh Cleaning and Mechanical Abrasion Fabricated by Scalable One-Step Thermal-Imprinting. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900240.	1.9	11
291	Thermosensitive Hydrogel Interface Switching from Hydrophilic Lubrication to Infection Defense. <i>ACS Applied Bio Materials</i> , 2019, 2, 3582-3590.	2.3	18
292	Flexible and Multifunctional Silk Textiles with Biomimetic Leaf-Like MXene/Silver Nanowire Nanostructures for Electromagnetic Interference Shielding, Humidity Monitoring, and Self-Derived Hydrophobicity. <i>Advanced Functional Materials</i> , 2019, 29, 1905197.	7.8	490
294	Synthesis of Nontoxic Pyrazolidine-Based Benzoxazine-Coated Cotton Fabric for Oil-Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21419-21430.	1.8	31
295	Effects of Packing Density and Chain Length on the Surface Hydrophobicity of Thin Films Composed of Perfluoroalkyl Acrylate Chains: A Molecular Dynamics Study. <i>Langmuir</i> , 2019, 35, 14316-14323.	1.6	11
296	Fabrication of superhydrophilic surface on metallic nickel by sub-nanosecond laser-induced ablation. <i>AIP Advances</i> , 2019, 9, 085308.	0.6	6
297	Anti-oil-fouling hydrophobic-superoleophobic composite membranes for robust membrane distillation performance. <i>Science of the Total Environment</i> , 2019, 696, 133883.	3.9	43
298	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
299	Maintenance Properties of Enzyme Molecule Stereostructure at High Temperature by Adsorption on Organo-Modified Magnetic Nanoparticle Layer Template. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1662-1671.	2.0	22

#	ARTICLE	IF	CITATIONS
300	Versatile Electronic Skins with Biomimetic Micronanostructures Fabricated Using Natural Reed Leaves as Templates. ACS Applied Materials & Interfaces, 2019, 11, 38084-38091.	4.0	50
301	Effect of surface wettability on filtration performance of gas-liquid coalescing filters. Powder Technology, 2019, 357, 377-386.	2.1	14
302	Hierarchical nanomaterials <i>via</i> biomolecular self-assembly and bioinspiration for energy and environmental applications. Nanoscale, 2019, 11, 4147-4182.	2.8	122
303	Non-wet kingfisher flying in the rain: The water-repellent mechanism of elastic feathers. Journal of Colloid and Interface Science, 2019, 541, 56-64.	5.0	19
304	Smart Copolymer-Functionalized Flexible Surfaces with Photoswitchable Wettability: From Superhydrophobicity with "Rose Petal" Effect to Superhydrophilicity. ACS Applied Materials & Interfaces, 2019, 11, 25436-25444.	4.0	55
305	Multifunctional nanostructured interfaces: Origin and challenges for biomedical and environmental applications. , 2019, , 1-14.		0
306	Two-step plasma mediated synthesis of mullite and sillimanite powder and their suspensive spray coating on stainless steel. Surface and Coatings Technology, 2019, 372, 103-110.	2.2	2
307	Controlled Surface Wettability by Plasma Polymer Surface Modification. Surfaces, 2019, 2, 349-371.	1.0	94
308	Si, Sr, Ag co-doped hydroxyapatite/TiO ₂ coating: enhancement of its antibacterial activity and osteoinductivity. RSC Advances, 2019, 9, 13348-13364.	1.7	39
309	Environmental perspectives of interfacially active and magnetically recoverable composite materials " A review. Science of the Total Environment, 2019, 670, 523-538.	3.9	76
310	Icepophobic materials: Fundamentals, performance evaluation, and applications. Progress in Materials Science, 2019, 103, 509-557.	16.0	258
311	A robust and versatile superhydrophobic coating: Wear-resistance study upon sandpaper abrasion. Applied Surface Science, 2019, 480, 738-748.	3.1	71
312	Preparation and characterization of perfluorine-SiO ₂ nanoparticles and superhydrophobic fluorosilicone/silica hybrid composite coating. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	12
313	Superamphiphobic Porous Structure: Design and Implementation. Advanced Materials Interfaces, 2019, 6, 1801973.	1.9	5
314	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. Progress in Organic Coatings, 2019, 132, 235-256.	1.9	292
315	Bioinspired Superwettability Micro/Nanoarchitectures: Fabrications and Applications. Advanced Functional Materials, 2019, 29, 1808012.	7.8	129
316	Nanoporous materials. , 2019, , 311-353.		17
317	Separation Mechanism and Construction of Surfaces with Special Wettability for Oil/Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 11006-11027.	4.0	452

#	ARTICLE	IF	CITATIONS
318	The parametric study on anti-corrosion properties produced by electrochemically exfoliated. IOP Conference Series: Materials Science and Engineering, 2019, 494, 012015.	0.3	1
319	Fast Modulation of Surface Amphiphobicity/Amphiphilicity via Bidirectional Substitution between Perfluorinated Surfactants and Polyanions throughout Pre-Assembled Polyelectrolyte Multilayers. Langmuir, 2019, 35, 17122-17131.	1.6	6
320	Turbulent Drag Reduction Characteristics of Bionic Nonsmooth Surfaces with Jets. Applied Sciences (Switzerland), 2019, 9, 5070.	1.3	7
321	Effect of liquid surface tension on the filtration performance of coalescing filters. Separation and Purification Technology, 2019, 209, 881-891.	3.9	19
322	Double-function SiO ₂ -DMS coating with antireflection and superhydrophobic surface. Chemical Physics Letters, 2019, 716, 211-214.	1.2	12
323	Biomimetic Hierarchical TiO ₂ @CuO Nanowire Arrays-Coated Copper Meshes with Superwetting and Self-Cleaning Properties for Efficient Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 2569-2577.	3.2	64
324	Synthesis and characterization of biopolymer based hybrid hydrogel nanocomposite and study of their electrochemical efficacy. International Journal of Biological Macromolecules, 2019, 123, 228-238.	3.6	12
325	Laser-Structured Graphene/Reduced Graphene Oxide Films towards Bio-Inspired Superhydrophobic Surfaces. Bulletin of the Chemical Society of Japan, 2019, 92, 283-289.	2.0	36
326	Division of roles of modified chains in organo-magnetic nanoparticles using Organo-modified agents having hydrophilic reactive polar groups at both ends. Colloids and Surfaces B: Biointerfaces, 2019, 173, 759-768.	2.5	6
327	Highly fluorinated and hierarchical HNTs/SiO ₂ hybrid particles for substrate-independent superamphiphobic coatings. Chemical Engineering Journal, 2019, 359, 626-640.	6.6	65
328	Smart Wetting Control on Shape Memory Polymer Surfaces. Chemistry - A European Journal, 2019, 25, 3979-3992.	1.7	40
329	Superhydrophobic nylon cloth coated with modified silica used for oil/water separation. Environmental Progress and Sustainable Energy, 2019, 38, e13051.	1.3	4
330	Fabrication of durable antibacterial and superhydrophobic textiles via in situ synthesis of silver nanoparticle on tannic acid-coated viscose textiles. Cellulose, 2019, 26, 2109-2122.	2.4	77
331	Bioinspired Hairy Crab Claw Polymer Surface with Excellent Self-Cleaning Wettability in Muddy or Oil-Contaminated Water. ACS Applied Bio Materials, 2019, 2, 424-429.	2.3	2
332	Slippery Lubricant-Infused Surfaces: Properties and Emerging Applications. Advanced Functional Materials, 2019, 29, 1802317.	7.8	172
333	A waterborne coating for robust superamphiphobic surfaces. Progress in Organic Coatings, 2020, 138, 105368.	1.9	24
334	In situ synthesis and exhaustion of nano TiO ₂ on fabric samples using laser ablation method. Journal of the Textile Institute, 2020, 111, 122-128.	1.0	9
335	Novel and cutting-edge applications for a solvent-responsive superoleophobic/superhydrophilic surface: Water-infused omniphobic surface and separating organic liquid mixtures. Chemical Engineering Journal, 2020, 381, 122629.	6.6	43

#	ARTICLE	IF	CITATIONS
336	Fundamental of smart coatings and thin films: synthesis, deposition methods, and industrial applications. , 2020, , 3-35.		7
337	Continuous and ordered surface microtexturing on Cu and Ni-based alloys by novel electrochemical dissolution. Journal of Alloys and Compounds, 2020, 817, 153263.	2.8	3
338	Superhydrophobic and superamphiphobic smart surfaces. , 2020, , 487-514.		2
339	Development of underwater superoleophobic polyamide-imide (PAI) microfiltration membranes for oil/water emulsion separation. Separation and Purification Technology, 2020, 238, 116451.	3.9	53
340	Artificial Superhydrophobic and Antifungal Surface on Goose Down by Cold Plasma Treatment. Coatings, 2020, 10, 904.	1.2	8
341	Poly (Dimethylsiloxane) Coating for Repellency of Polar and Non-Polar Liquids. Polymers, 2020, 12, 2423.	2.0	2
342	Crack propagation and toughening mechanisms of bio-inspired artificial spicules fabricated by additive manufacturing technique. Theoretical and Applied Fracture Mechanics, 2020, 110, 102797.	2.1	11
343	Robust and durable surperhydrophobic F-DLC coating for anti-icing in aircrafts engineering. Surface and Coatings Technology, 2020, 404, 126468.	2.2	23
344	A Review on Oil/Water Mixture Separation Material. Industrial & Engineering Chemistry Research, 2020, 59, 14546-14568.	1.8	109
345	Surface morphologies and wetting properties of layer-by-layer assembled films of polyelectrolytes with bimodal molecular weight distribution. Korean Journal of Chemical Engineering, 2020, 37, 1266-1273.	1.2	4
346	New protein-based smart materials. , 2020, , 415-436.		2
347	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. ACS Nano, 2020, 14, 16723-16734.	7.3	98
348	PVDF-Modified TiO ₂ Nanowires Membrane with Underliquid Dual Superlyophobic Property for Switchable Separation of Oil/Water Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 40925-40936.	4.0	51
349	Photocatalytically Driven Self-Cleaning and Underwater Superoleophobic Copper Mesh Modified with Hierarchical Bi ₂ WO ₆ @CuO Nanowires for Oil/Water Separation. Industrial & Engineering Chemistry Research, 2020, 59, 16450-16461.	1.8	37
350	Durable Underwater Superoleophobic Coatings via Dispersed Micro Particle-Induced Hierarchical Structures Inspired by Pomfret Skin. ACS Applied Materials & Interfaces, 2020, 12, 42430-42436.	4.0	14
351	Antifrosting Performance of a Superhydrophobic Surface by Optimizing the Surface Morphology. Langmuir, 2020, 36, 10156-10165.	1.6	14
352	Alginate/Halloysite Nanocomposite Aerogel: Preparation, Structure, and Oil/Water Separation Applications. Biomolecules, 2020, 10, 1632.	1.8	17
353	Embedded polyzwitterionic brush-modified nanofibrous membrane through subsurface-initiated polymerization for highly efficient and durable oil/water separation. Journal of Colloid and Interface Science, 2020, 575, 388-398.	5.0	41

#	ARTICLE	IF	CITATIONS
354	Novel hydrophobic and oleophobic surfaces using polyurethane with hydrogenated polyisoprene soft segment. <i>Materials Today Communications</i> , 2020, 24, 101243.	0.9	7
355	Bioinspired surface with special wettability for liquid transportation and separation. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00175.	1.7	15
356	Hard-and-Soft Integration Strategy for Preparation of Exceptionally Stable Zr(Hf)-UiO-66 via Thiol-ene Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28576-28585.	4.0	26
357	Droplet spreading and wettability of laser textured C-263 based nickel superalloy. <i>Surface and Coatings Technology</i> , 2020, 397, 126055.	2.2	5
358	Influence of MgF ₂ nanoparticles in the plasma polymer fluorocarbon-based transparent nanocomposite thin films on the surface hardness properties. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000064.	1.6	2
359	Superhydrophilic polyvinylidene fluoride membrane with hierarchical surface structures fabricated via nanoimprint and nanoparticle grafting. <i>Journal of Membrane Science</i> , 2020, 612, 118332.	4.1	16
360	Polymorphic calcium alginate microfibers assembled using a programmable microfluidic field for cell regulation. <i>Lab on A Chip</i> , 2020, 20, 3158-3166.	3.1	11
361	Hierarchical Graphene/Metal-Organic Framework Composites with Tailored Wettability for Separation of Immiscible Liquids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35563-35571.	4.0	16
362	Effect of 172-nm UV irradiation on polyimide and its application in surface modification by grafting. <i>High Performance Polymers</i> , 2020, 32, 761-774.	0.8	1
363	Study of the effect of surface laser texture on tribological properties of cemented carbide materials. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 993-1006.	1.5	15
364	Mesoporous molecularly imprinted polymer for removal of hormones from aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 590, 124506.	2.3	14
365	Wipe-on and durable self-cleaning coating for glass facade. <i>Thin Solid Films</i> , 2020, 697, 137813.	0.8	6
366	Biomimetic Superlyophobic Metallic Surfaces: Focusing on Their Fabrication and Applications. <i>Journal of Bionic Engineering</i> , 2020, 17, 1-33.	2.7	32
367	A Review of In-Situ Grown Nanocomposite Coatings for Titanium Alloy Implants. <i>Journal of Composites Science</i> , 2020, 4, 41.	1.4	13
368	Recent development of super-wettable materials and their applications in oil-water separation. <i>Journal of Cleaner Production</i> , 2020, 266, 121624.	4.6	170
369	Preparation of Microcapsules Coating and the Study of Their Bionic Anti-Fouling Performance. <i>Materials</i> , 2020, 13, 1669.	1.3	23
370	Large scale synthesis of silane functionalized near-superhydrophobic aluminium hydroxide particles via facile surface grafting technique. <i>Materials Today Communications</i> , 2021, 26, 101744.	0.9	7
371	Fabrication of superhydrophilic and underwater superoleophobic membranes for fast and effective oil/water separation with excellent durability. <i>Journal of Membrane Science</i> , 2021, 620, 118898.	4.1	50

#	ARTICLE	IF	CITATIONS
372	Understanding interfacial influence on properties of polymer nanocomposites. <i>Surfaces and Interfaces</i> , 2021, 22, 100879.	1.5	83
373	Pixelated full-colour small molecule semiconductor devices towards artificial retinas. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5858-5867.	2.7	9
374	Bioinspired Superoleophobic Materials for Oil-Water Separation. <i>Environmental and Microbial Biotechnology</i> , 2021, , 253-276.	0.4	1
375	Fluorinated Graphene-Enabled Durable Triboelectric Coating for Water Energy Harvesting. <i>Small</i> , 2021, 17, e2007805.	5.2	27
376	Preparation and applications of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/chemically modified cellulose fibers composites. <i>Polymers and Polymer Composites</i> , 0, , 096739112199292.	1.0	1
377	Improving the wettability of structural steels by employing ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 324, 115137.	2.3	6
378	Polystyrene brushes/TiO ₂ nanoparticles prepared via SI-ATRP on polypropylene and its superhydrophobicity. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	5
379	The Roles of Membrane Technology in Artificial Organs: Current Challenges and Perspectives. <i>Membranes</i> , 2021, 11, 239.	1.4	33
380	Bioinspired and biomimetic membranes for water purification and chemical separation: A review. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	26
381	A systematic review on graphene-based nanofluids application in renewable energy systems: Preparation, characterization, and thermophysical properties. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101058.	1.7	19
382	A novel biomimetic design inspired by nested cylindrical structures of spicules. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158197.	2.8	8
383	The preparation of superhydrophobic photocatalytic fluorosilicone/SiO ₂ -TiO ₂ coating and its self-cleaning performance. <i>Journal of Coatings Technology Research</i> , 2021, 18, 1245-1259.	1.2	16
384	Dynamically oleophobic epoxy coating with surface enriched in silicone. <i>Progress in Organic Coatings</i> , 2021, 154, 106170.	1.9	9
385	Fluororubber superhydrophobic coating: preparation, characterisation, and EMI shielding performance. <i>Surface Engineering</i> , 2021, 37, 1308-1319.	1.1	7
386	DESIGN BY MATERIAL: FROM MATERIAL TO FORM THROUGH CAD MODELLING. <i>Proceedings of the Design Society</i> , 2021, 1, 963-972.	0.5	0
387	Innovative fouling-resistant materials for industrial heat exchangers: a review. <i>Reviews in Chemical Engineering</i> , 2023, 39, 71-104.	2.3	4
388	Fabrication of CuO/TMSPM Coated Superhydrophobic Fabric for Self-cleaning and Oil-water Separation. <i>Fibers and Polymers</i> , 2021, 22, 3517-3525.	1.1	4
389	Advances of Adsorption and Filtration Techniques in Separating Highly Viscous Crude Oil/Water Mixtures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100061.	1.9	52

#	ARTICLE	IF	CITATIONS
390	Engineering of superhydrophobic silica microparticles and thin coatings on polymeric films by ultrasound irradiation. <i>Materials Today Chemistry</i> , 2021, 21, 100520.	1.7	11
391	Miniature Ultralight Deformable Squama Mechanics and Skin Based on Piezoelectric Actuation. <i>Micromachines</i> , 2021, 12, 969.	1.4	3
392	Microextraction by packed molecularly imprinted polymer followed by ultra-high performance liquid chromatography for determination of fipronil and fluazuron residues in drinking water and veterinary clinic wastewater. <i>Microchemical Journal</i> , 2021, 168, 106405.	2.3	12
393	Influência do Nb contido em eletrólito a base de oxalato na anodização de alumínio em ácido oxálico. <i>Research, Society and Development</i> , 2021, 10, e226101220369.	0.0	0
394	Fabrication of hydrophobic surface on Ti6Al4V by WEDM process for surgical instruments and bioimplants. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1111-1123.	1.5	9
395	Facile preparation of super-oleophobic TiO ₂ /SiO ₂ composite coatings by spraying method. <i>Progress in Organic Coatings</i> , 2021, 159, 106411.	1.9	6
396	Fish-scale nickel mesh with switchable wettability for efficient oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106228.	3.3	8
397	Silicon carbide nanowire modified mullite fabric hierarchical structure applied as a stable and self-cleaning superhydrophobic material. <i>Materials and Design</i> , 2021, 210, 110044.	3.3	12
398	Stable super-hydrophobic and comfort PDMS-coated polyester fabric. <i>E-Polymers</i> , 2021, 21, 654-661.	1.3	12
399	Direct Imaging of Superwetting Behavior on Solid-Liquid-Vapor Triphase Interfaces. <i>Advanced Materials</i> , 2017, 29, 1703009.	11.1	10
400	Mussel-inspired chitosan modified superhydrophilic and underwater superoleophobic cotton fabric for efficient oil/water separation. <i>Carbohydrate Polymers</i> , 2020, 244, 116449.	5.1	94
401	Lotus-leaf-inspired hierarchical structured surface with non-fouling and mechanical bactericidal performances. <i>Chemical Engineering Journal</i> , 2020, 398, 125609.	6.6	145
402	Facile fabrication of biomimetic superoleophobic composite coating via Schiff base reaction and self-assembly. <i>Progress in Organic Coatings</i> , 2020, 142, 105568.	1.9	4
403	Doubly Reentrant Cavities Prevent Catastrophic Wetting Transitions on Intrinsically Wetting Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21532-21538.	4.0	64
404	Review on the self-healing concrete-approach and evaluation techniques. <i>Journal of Ceramic Processing Research</i> , 2019, 20, 1-18.	0.4	7
405	Development of environmentally-friendly surface modification technology. <i>Synthesiology</i> , 2014, 7, 190-198.	0.2	2
406	Development of environmentally-friendly surface modification technology. <i>Synthesiology</i> , 2014, 7, 185-193.	0.2	1
407	Ultrasonic Assisted Rapid Preparation of Superhydrophobic Stainless Steel Surface and its Application in Oil/Water Separation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
408	Bio-inspired strategies for next-generation perovskite solar mobile power sources. <i>Chemical Society Reviews</i> , 2021, 50, 12915-12984.	18.7	15
409	Advanced Multifunctional Aqueous Rechargeable Batteries Design: From Materials and Devices to Systems. <i>Advanced Materials</i> , 2022, 34, e2104327.	11.1	78
410	Bio-inspired super liquid-repellent membranes for membrane distillation: Mechanisms, fabrications and applications. <i>Advances in Colloid and Interface Science</i> , 2021, 297, 102547.	7.0	16
411	HTT 1800 SILAZANE AS HIGH PERFORMANCE COATING TO STAINLESS STEEL SUBSTRATE. , 0, , .		0
412	Fabrication of Nanopatterned PDMS Elastic Stamp Mold Using Surface Treatment of Nanotemplate. <i>Journal of the Korean Society of Manufacturing Technology Engineers</i> , 2015, 24, 38-42.	0.1	1
413	Terminologies and Definitions. , 2016, , 123-133.		0
414	CHAPTER 7. "Slippery" Liquid-Infused Surfaces Inspired by Nature. <i>RSC Smart Materials</i> , 2016, , 185-208.	0.1	0
415	Wykorzystanie indukcyjnego pieca prądnicowego do wytwarzania stopów z pamięci... kształtu. <i>Przebieg...d</i> Mechaniczny, 2017, 1, 20-23.	0.0	1
416	Progress of Surfaces with Stimuli-Responsive Wettability. <i>Material Sciences</i> , 2018, 08, 471-481.	0.0	0
417	Microcone Arrays by Sucrose Solution Assisted Femtosecond Laser Irradiation. <i>Springer Theses</i> , 2018, , 77-93.	0.0	0
419	Fluid slip over hydrophobic surfaces in microchannels: a dissipative particle dynamics study. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 104701.	0.2	0
420	Fabrication of Superhydrophobic Coatings on Glass based on Poly(dimethylsiloxane) and Fumed Silica. <i>Journal of the Turkish Chemical Society, Section A: Chemistry</i> , 0, , 589-596.	0.4	1
421	Multiscale super-amphiphobic ceramic membrane for oil aerosol removal. <i>Journal of Membrane Science</i> , 2022, 642, 119996.	4.1	7
422	SUPERWETTABILITY-BASED CHEMICAL PROCESSES. <i>Surface Review and Letters</i> , 2021, 28, 2030005.	0.5	0
423	Anisotropic Wettability on One-Dimensional Nanopatterned Surfaces: The Effects of Intrinsic Surface Wettability and Morphology. <i>Langmuir</i> , 2021, 37, 14186-14194.	1.6	9
424	Ultrasonic assisted rapid preparation of superhydrophobic stainless steel surface and its application in oil/water separation. <i>Ultrasonics Sonochemistry</i> , 2021, 81, 105848.	3.8	8
425	Robust network-like superhydrophobic magnesium hydroxide surface via cathodic electrodeposition with xanthan gum. <i>Surfaces and Interfaces</i> , 2022, 29, 101712.	1.5	8
426	Eco-friendly synthesis of self-reporting robust superhydrophobic coatings with damage sensitive photoluminescence. <i>Chemical Engineering Journal</i> , 2022, 431, 134162.	6.6	11

#	ARTICLE	IF	CITATIONS
427	One-step efficient separation of heavy/light oils, dyes and water by simple filtration with a 3D architecture of functional mesh and sisal fiber felt. Separation and Purification Technology, 2022, 286, 120461.	3.9	8
428	Biologically-inspired Stimuli-responsive DDS. Biomaterials Science Series, 2018, , 265-283.	0.1	0
429	Wettability Control between Oleophobic/Superhydrophilic and Superoleophilic/Superhydrophobic Characteristics on the Modified Surface Treated with Fluoroalkyl End-Capped Oligomers/Micro-Sized Polystyrene Particle Composites. Open Journal of Composite Materials, 2022, 12, 41-55.	0.4	0
430	Effect of the Si/Ti Ratio on the Structure and Mechanical Properties of Plasma-Enhanced Magnetron Sputtered SiCN Coatings. Journal of Materials Engineering and Performance, 2022, 31, 3621-3630.	1.2	2
431	Antibacterial surfaces: Strategies and applications. Science China Technological Sciences, 2022, 65, 1000-1010.	2.0	20
432	Resistive switching in bio-inspired natural solid polymer electrolytes. , 2022, , 43-57.		0
433	Magnetic and Optical Characterization of Cobalt Ferrite@Barium Titanate Core@Shell for Biomedical Applications. IEEE Transactions on Magnetics, 2022, 58, 1-8.	1.2	5
435	Nanocellulose: Chemistry, preparation, and applications in the food industry. , 2022, , 155-177.		0
436	Emerging Separation Applications of Surface Superwettability. Nanomaterials, 2022, 12, 688.	1.9	12
437	Preparation of Stable Superhydrophobic Coatings on Complex Shaped Substrates. Advanced Materials Interfaces, 2022, 9, .	1.9	11
438	Laccase-Functionalized Hexagonal Boron Nitride-Coated Sponges for the Removal and Degradation of Anthracene. ACS Applied Nano Materials, 2022, 5, 4493-4505.	2.4	6
439	Experimental study on the interaction forces between water droplets and mineral surfaces. Chemical Physics, 2022, 559, 111534.	0.9	3
440	Superhydrophobic films-based nonanyl carboxy methylcellulose grafted polyacrylamide for AISI-stainless steel corrosion protection: Empirical explorations and computational models. Journal of Molecular Liquids, 2022, 356, 119063.	2.3	4
441	Biobased mussel-inspired underwater superoleophobic chitosan derived complex hydrogel coated cotton fabric for oil/water separation. International Journal of Biological Macromolecules, 2022, 209, 279-289.	3.6	21
442	POWDERED CELLULOSIC MATERIALS: OVERVIEW, CLASSIFICATION, CHARACTERISTICS AND FIELDS OF APPLICATION. Khimiya Rastitel'nogo Syr'ya, 2021, , 31-45.	0.0	0
443	Oil/Water Microreactor with a Core@Shell Wetting State on a SOB/OL-SHB/HL Multilevel Patterned Surface. Journal of Physical Chemistry C, 2021, 125, 27771-27783.	1.5	8
444	Micro@Nano-Nanowire Triple Structure-Held PDMS Superhydrophobic Surfaces for Robust Ultra-Long-Term Icephobic Performance. ACS Applied Materials & Interfaces, 2022, 14, 23973-23982.	4.0	39
445	Recent advances in epoxy coatings for corrosion protection of steel: Experimental and modelling approach-A review. Materials Today: Proceedings, 2022, 62, 1658-1663.	0.9	9

#	ARTICLE	IF	CITATIONS
446	Experimental and theoretical studies of a magnetic mesoporous molecularly imprinted polymer for selective adsorption of estrogens from aqueous solutions. <i>Journal of Molecular Structure</i> , 2022, 1264, 133221.	1.8	8
447	A Self-Detecting and Self-Cleaning Biomimetic Porous Metal-Based Hydrogel for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26057-26067.	4.0	10
449	Regulation and control of wet friction of soft materials using surface texturing: A review. <i>Friction</i> , 2023, 11, 333-353.	3.4	6
450	A novel CoxNi1-xP/fs-Si self-supporting electrodes manufactured via femtosecond laser for highly efficient hydrogen evolution reaction. <i>Surfaces and Interfaces</i> , 2022, 32, 102173.	1.5	4
451	Selective Fabrication of Robust and Multifunctional Super Nonwetting Surfaces by Diverse Modifications of Zirconiaâ€Ceria Nanocomposites. <i>Langmuir</i> , 2022, 38, 9195-9209.	1.6	6
452	Lessons from nature: 3D printed bio-inspired porous structures for impact energy absorption â€C A review. <i>Additive Manufacturing</i> , 2022, 58, 103051.	1.7	30
454	A review of physics of moving contact line dynamics models and its applications in interfacial science. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	12
455	A comprehensive review of the features of self-compacting rubberized concrete in the fresh and hardened states. <i>Architecture, Structures and Construction</i> , 0, , .	0.7	0
456	Physics of Dynamic Contact Line: Hydrodynamics Theory versus Molecular Kinetic Theory. <i>Fluids</i> , 2022, 7, 318.	0.8	5
457	Recent Advances in Superhydrophobic and Antibacterial Coatings for Biomedical Materials. <i>Coatings</i> , 2022, 12, 1469.	1.2	15
458	Advance in Structural Classification and Stability Study of Superamphiphobic Surfaces. <i>Journal of Bionic Engineering</i> , 2023, 20, 366-389.	2.7	3
459	Bioinspired Composite Hydrogelâ€Coated Stainless Steel Screen for Efficient and Stable Gravityâ€Driven Oilâ€Water Separation. <i>Advanced Engineering Materials</i> , 0, , 2201258.	1.6	1
460	Facile Preparation of Robust Superamphiphobic Coatings on Complex Substrates via Nonsolvent-Induced Phase Separation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 49047-49058.	4.0	18
461	Exploring chemical and structural features to tailor wetting properties of PVDF and PVDF/PMMA surfaces. <i>Polymer</i> , 2022, 262, 125441.	1.8	4
462	Bio-inspired water-driven electricity generators: From fundamental mechanisms to practical applications. , 2023, 2, e9120042.		39
463	Surface synthesization of magnesium alloys for improving corrosion resistance and implant applications. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104465.	2.3	3
464	Fabrication of negative carbon superhydrophobic self-cleaning concrete coating: High added-value utilization of recycled powders. <i>Cement and Concrete Composites</i> , 2023, 136, 104882.	4.6	9
465	Study on the structure-activity relationship between oil dewetting self-cleaning and surface morphology for crude oil pollution treatment and crude oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109092.	3.3	0

#	ARTICLE	IF	CITATIONS
466	Influence of modified graphene oxide on the antifouling performance of waterborne polyurethane coatings containing amphiphilic honeycomb surface. <i>Journal of Coatings Technology Research</i> , 0, , .	1.2	0
467	Self-Healing Superwetting Surfaces, Their Fabrications, and Properties. <i>Chemical Reviews</i> , 2023, 123, 663-700.	23.0	18
468	Bio-Sourced and Biodegradable Membranes. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 12837.	1.3	4
469	Reversed micelles with well-amphiphobic properties from main-chain type semifluorinated alternating copolymer. <i>Applied Surface Science</i> , 2023, 614, 156199.	3.1	6
470	Design considerations to fabricate multifunctional superomniphobic surfaces: A review. <i>Vacuum</i> , 2023, 209, 111758.	1.6	4
471	3D Microprinting of Super-Repellent Microstructures: Recent Developments, Challenges, and Opportunities. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	7
472	Superhydrophobic/Superhydrophilic Polymeric Membranes for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 119-184.	0.5	1
473	Bio-inspired advancements in additive manufacturing. , 2023, , 313-324.		0
474	Constructing a highly tough, durable, and renewable flexible filter by epitaxial growth of a glass fiber fabric for high flux and superefficient oil-water separation. <i>Journal of Hazardous Materials</i> , 2023, 448, 130807.	6.5	4
475	A systematic review on new advancement and assessment of emerging polymeric cryogels for environmental sustainability and energy production. <i>Separation and Purification Technology</i> , 2023, 316, 123678.	3.9	27
476	Hierarchical structured surfaces enhance the contact angle of the hydrophobic (meta-stable) state. <i>Journal of Chemical Physics</i> , 2023, 158, .	1.2	2
477	Tribological Behavior of Bioinspired Surfaces. <i>Biomimetics</i> , 2023, 8, 62.	1.5	2
478	Self-Healing, Robust, Liquid-Repellent Coatings Exploiting the Donor-Acceptor Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 8699-8708.	4.0	4
479	Recent advances in preparation of metallic superhydrophobic surface by chemical etching and its applications. <i>Chinese Journal of Chemical Engineering</i> , 2023, 61, 221-236.	1.7	3
480	Development of nanocellulose fiber reinforced starch biopolymer composites: a review. <i>ChemistrySelect</i> , 2024, 9, 1171-1211.	0.7	3
481	The Waterborne Superamphiphobic Coatings with Antifouling, High Temperature Resistance, and Corrosion Resistance. <i>ACS Omega</i> , 2023, 8, 13578-13592.	1.6	0
482	Inorganic-inorganic mixed nanocomposites as anticorrosive coatings. , 2023, , 329-347.		0
493	A systematic review on polymer-based superhydrophobic coating for preventing biofouling menace. <i>Journal of Coatings Technology Research</i> , 2023, 20, 1499-1512.	1.2	4

#	ARTICLE	IF	CITATIONS
508	Electrospinning-Based Super Liquid-Repellent Membranes for Membrane Distillation: Theory, Fabrications, Applications, and Challenges. , 0, , .		0
510	Environmental impact of nanomaterials. , 2024, , 25-47.		0