

A prewetting induced underwater superoleophobic or u  
potato residue-coated mesh for selective efficient oil/w

Green Chemistry

18, 541-549

DOI: 10.1039/c5gc01818h

Citation Report

#	ARTICLE	IF	CITATIONS
4	Stable superhydrophobic and superoleophilic silica coated polyurethane sponges for the continuous capture and removal of oils from the water surface. <i>New Journal of Chemistry</i> , 2015, 39, 9958-9962.	1.4	48
5	Superhydrophobic Fabrics for Oil/Water Separation Based on the Metal-Organic Charge-Transfer Complex CuTCNAQ. <i>ChemPlusChem</i> , 2016, 81, 378-383.	1.3	10
6	Reversible wettability between superhydrophobicity and superhydrophilicity of Ag surface. <i>Science China Materials</i> , 2016, 59, 348-354.	3.5	28
7	Electrochemical route to prepare polyaniline-coated meshes with controllable pore size for switchable emulsion separation. <i>Chemical Engineering Journal</i> , 2016, 304, 115-120.	6.6	74
8	Facile fabrication of superhydrophobic silica coatings with excellent corrosion resistance and liquid marbles. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 208-214.	1.1	30
9	Superhydrophobic meshes that can repel hot water and strong corrosive liquids used for efficient gravity-driven oil/water separation. <i>Nanoscale</i> , 2016, 8, 7638-7645.	2.8	380
10	Ultrastable coaxial cable-like superhydrophobic mesh with self-adaption effect: facile synthesis and oil/water separation application. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8080-8090.	5.2	95
11	A versatile coating approach to fabricate superwetting membranes for separation of water-in-oil emulsions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016, 34, 1234-1239.	2.0	10
12	Rapid deposition of superhydrophilic stalagmite-like protrusions for underwater selective superwettability. <i>RSC Advances</i> , 2016, 6, 89298-89304.	1.7	1
13	Advanced Sorbents for Oil-Spill Cleanup: Recent Advances and Future Perspectives. <i>Advanced Materials</i> , 2016, 28, 10459-10490.	11.1	547
14	Robust superhydrophobic carbon nanofiber network inlay-gated mesh for water-in-oil emulsion separation with high flux. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17970-17980.	5.2	82
15	A regenerable copper mesh based oil/water separator with switchable underwater oleophobicity. <i>RSC Advances</i> , 2016, 6, 92833-92838.	1.7	8
16	Structure-Property Relationships of Nanosheeted 3D Hierarchical Roughness MgAl-Layered Double Hydroxide Branched to an Electrospun Porous Nanomembrane: A Superior Oil-Removing Nanofabric. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28964-28973.	4.0	62
17	Facile Fabrication of Cyclodextrin-Modified Magnetic Particles for Effective Demulsification from Various Types of Emulsions. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8809-8816.	4.6	76
18	In-situ synthesis of bi-modal hydrophobic silica nanoparticles for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 508, 301-308.	2.3	42
19	Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15749-15770.	5.2	168
20	Facile fabrication of an underwater superoleophobic mesh for effective separation of oil/simulated seawater mixtures. <i>RSC Advances</i> , 2016, 6, 77908-77912.	1.7	9
21	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. <i>RSC Advances</i> , 2016, 6, 82352-82358.	1.7	12

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22	A facile process for preparing superhydrophobic PBZ-PTFE coating with excellent stable properties. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3
23	Versatile fabrication of a superhydrophobic and ultralight cellulose-based aerogel for oil spillage clean-up. Physical Chemistry Chemical Physics, 2016, 18, 28297-28306.	1.3	78
24	Robust superhydrophobic attapulgite coated polyurethane sponge for efficient immiscible oil/water mixture and emulsion separation. Journal of Materials Chemistry A, 2016, 4, 15546-15553.	5.2	317
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29	Robust Superhydrophobic Fabric Bag Filled with Polyurethane Sponges Used for Vacuum-Assisted Continuous and Ultrafast Absorption and Collection of Oils from Water. Advanced Materials Interfaces, 2016, 3, 1500770.	1.9	187
30	A facile one-step preparation method of recyclable superhydrophobic polypropylene membrane for oil/water separation. RSC Advances, 2016, 6, 61129-61136.	1.7	33
31	Purification of oily seawater/wastewater using superhydrophobic nano-silica coated mesh and sponge. Journal of Industrial and Engineering Chemistry, 2016, 40, 47-53.	2.9	50
32	A robust bilayer nanofilm fabricated on copper foam for oil/water separation with improved performances. Journal of Materials Chemistry A, 2016, 4, 10294-10303.	5.2	36
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35	Facile fabrication of underwater superoleophobic SiO <sub>2</sub> coated meshes for separation of polluted oils from corrosive and hot water. Separation and Purification Technology, 2016, 168, 209-214.	3.9	48
36	A Co <sub>3</sub> O <sub>4</sub> nano-needle mesh for highly efficient, high-flux emulsion separation. Journal of Materials Chemistry A, 2016, 4, 12014-12019.	5.2	100
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38	Facile fabrication of three-dimensional superhydrophobic foam for effective separation of oil and water mixture. Materials Letters, 2016, 171, 228-231.	1.3	35
39	A self-cleaning titanium mesh with underwater superoleophobicity for oil/water separation and aqueous pollutant degradation. Surface and Coatings Technology, 2017, 313, 55-62.	2.2	37

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40	Water purification: oil-water separation by nanotechnology and environmental concerns. <i>Environmental Science: Nano</i> , 2017, 4, 514-525.	2.2	122
41	ZnO-Nanowires-Coated Smart Surface Mesh with Reversible Wettability for Efficient On-Demand Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6007-6013.	4.0	151
42	High-flux underwater superoleophobic hybrid membranes for effective oil-water separation from oil-contaminated water. <i>RSC Advances</i> , 2017, 7, 9051-9056.	1.7	18
43	Fabrication of superhydrophobic polycaprolactone/beeswax electrospun membranes for high-efficiency oil/water separation. <i>RSC Advances</i> , 2017, 7, 2092-2102.	1.7	113
44	A versatile biomass derived carbon material for oxygen reduction reaction, supercapacitors and oil/water separation. <i>Nano Energy</i> , 2017, 33, 334-342.	8.2	352
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46	The Janus effect on superhydrophilic Cu mesh decorated with Ni-NiO/Ni(OH) <sub>2</sub> core-shell nanoparticles for oil/water separation. <i>Applied Surface Science</i> , 2017, 409, 431-437.	3.1	39
47	Hydrophobic/lipophobic barrier capable of confining aggressive liquids for paper-based assay. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 544-549.	2.3	8
48	A novel 3D porous modified material with cage-like structure: fabrication and its demulsification effect for efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5895-5904.	5.2	97
49	A robust salt-tolerant superoleophobic alginate/graphene oxide aerogel for efficient oil/water separation in marine environments. <i>Scientific Reports</i> , 2017, 7, 46379.	1.6	51
50	Durable underwater superoleophobic PDDA/halloysite nanotubes decorated stainless steel mesh for efficient oil-water separation. <i>Applied Surface Science</i> , 2017, 416, 344-352.	3.1	55
51	One-Step Fabrication of Non-Fluorinated Transparent Super-Repellent Surfaces with Tunable Wettability Functioning in Both Air and Oil. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15857-15867.	4.0	42
52	Super-stable non-woven fabric-based membrane as a high-efficiency oil/water separator in full pH range. <i>RSC Advances</i> , 2017, 7, 19764-19770.	1.7	25
53	Multifunctional walnut shell layer used for oil/water mixtures separation and dyes adsorption. <i>Applied Surface Science</i> , 2017, 419, 869-874.	3.1	40
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55	Micro-nano structural engineering of filter paper surface for high selective oil-water separation. <i>Cellulose</i> , 2017, 24, 2913-2924.	2.4	17
56	Intelligent self-healing superhydrophobic modification of cotton fabrics via surface-initiated ARGET ATRP of styrene. <i>Chemical Engineering Journal</i> , 2017, 323, 134-142.	6.6	67
57	Superoleophobic surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 4168-4217.	18.7	613

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59	A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. <i>Separation and Purification Technology</i> , 2017, 184, 72-78.	3.9	80
60	Eco-friendly preparation of robust superhydrophobic Cu(OH) <sub>2</sub> coating for self-cleaning, oil-water separation and oil sorption. <i>Surface and Coatings Technology</i> , 2017, 325, 14-21.	2.2	42
61	Environmental-friendly and magnetic/silanized ethyl cellulose sponges as effective and recyclable oil-absorption materials. <i>Carbohydrate Polymers</i> , 2017, 173, 422-430.	5.1	58
62	Anticorrosive superhydrophobic polystyrene-coated mesh for continuous oil spill clean-up. <i>New Journal of Chemistry</i> , 2017, 41, 4862-4868.	1.4	15
63	Fabrication of Attapulgite Coated Membranes for Effective Separation of Oil-in-Water Emulsion in Highly Acidic, Alkaline, and Concentrated Salty Environments. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700364.	1.9	39
64	Stable Superwetting Meshes for On-Demand Separation of Immiscible Oil/Water Mixtures and Emulsions. <i>Langmuir</i> , 2017, 33, 3702-3710.	1.6	82
65	Robust superhydrophobic candle soot and silica composite sponges for efficient oil/water separation in corrosive and hot water. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 817-826.	1.1	28
66	Underwater superoleophobic mesh based on BiVO <sub>4</sub> nanoparticles with sunlight-driven self-cleaning property for oil/water separation. <i>Chemical Engineering Journal</i> , 2017, 320, 342-351.	6.6	136
67	Robust superhydrophobic carbon fiber sponge used for efficient oil/corrosive solution mixtures separation. <i>Vacuum</i> , 2017, 141, 57-61.	1.6	10
68	Switchable and simultaneous oil/water separation induced by prewetting with a superamphiphilic self-cleaning mesh. <i>Chemical Engineering Journal</i> , 2017, 313, 398-403.	6.6	97
69	Fluorine-Induced Superhydrophilic Ti Foam with Surface Nanocavities for Effective Oil-in-Water Emulsion Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 699-707.	1.8	33
70	Adaptable bioinspired special wetting surface for multifunctional oil/water separation. <i>Scientific Reports</i> , 2017, 7, 39970.	1.6	40
71	Facile fabrication of superhydrophobic SiO <sub>2</sub> -coated mesh used for corrosive and hot water/oil separation. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 299-307.	1.1	17
72	Novel One-Step, in Situ Thermal Polymerization Fabrication of Robust Superhydrophobic Mesh for Efficient Oil/Water Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 11817-11826.	1.8	34
73	Dually Prewetted Underwater Superoleophobic and under Oil Superhydrophobic Fabric for Successive Separation of Light Oil/Water/Heavy Oil Three-Phase Mixtures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36368-36376.	4.0	65
74	One-step removal of insoluble oily compounds and water-miscible contaminants from water by underwater superoleophobic graphene oxide-coated cotton. <i>Cellulose</i> , 2017, 24, 5605-5614.	2.4	10
75	Nanofibrous metal-organic framework composite membrane for selective efficient oil/water emulsion separation. <i>Journal of Membrane Science</i> , 2017, 543, 10-17.	4.1	137

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77	Smart candle soot coated membranes for on-demand immiscible oil/water mixture and emulsion switchable separation. <i>Nanoscale</i> , 2017, 9, 13610-13617.	2.8	131
78	Highly Efficient and Robust Oil/Water Separation Materials Based on Wire Mesh Coated by Reduced Graphene Oxide. <i>Langmuir</i> , 2017, 33, 9590-9597.	1.6	25
79	Durable superhydrophobic surfaces made by intensely connecting a bipolar top layer to the substrate with a middle connecting layer. <i>Scientific Reports</i> , 2017, 7, 9946.	1.6	31
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81	Effective oil removal from water by magnetically driven superhydrophobic and oleophilic magnetic titania nanotubes. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18063-18072.	2.7	13
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83	Underwater superoleophobicity cellulose nanofibril aerogel through regioselective sulfonation for oil/water separation. <i>Chemical Engineering Journal</i> , 2017, 330, 774-782.	6.6	103
84	Low cost and non-fluoride flowerlike superhydrophobic particles fabricated for both emulsions separation and dyes adsorption. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 421-428.	5.0	24
85	Facile fabrication of anti-corrosive superhydrophobic diatomite coatings for removal oil from harsh environments. <i>Separation and Purification Technology</i> , 2017, 189, 335-340.	3.9	30
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87	Inorganic adhesives for robust, self-healing, superhydrophobic surfaces. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19297-19305.	5.2	128
88	Robust and thermal-healing superhydrophobic surfaces by spin-coating of polydimethylsiloxane. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 18-27.	5.0	79
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90	A facile modification of steel mesh for oil/water separation. <i>New Journal of Chemistry</i> , 2017, 41, 7463-7471.	1.4	48
91	Novel stellate poly(vinylidene fluoride)/polyethersulfone microsphere-nanofiber electrospun membrane with special wettability for oil/water separation. <i>Materials Letters</i> , 2017, 207, 190-194.	1.3	21
92	Superhydrophobic copper coating: Switchable wettability, on-demand oil-water separation, and antifouling. <i>Chemical Engineering Journal</i> , 2017, 327, 849-854.	6.6	141
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95	“Butterfly Effect” from finite dope chemical composition variations on the water/oil separation capabilities of super rough polyvinylidene difluoride (PVDF) porous membranes. <i>Journal of Membrane Science</i> , 2017, 524, 197-204.	4.1	15
96	A diatomite coated mesh with switchable wettability for on-demand oil/water separation and methylene blue adsorption. <i>Separation and Purification Technology</i> , 2017, 174, 275-281.	3.9	63
97	Facile preparation of colorful liquid marbles and liquid marbles used in water pollutant detection. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 1125-1132.	1.4	8
98	Highly efficient separation of surfactant stabilized water-in-oil emulsion based on surface energy gradient and flame retardancy. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 1-10.	5.0	33
99	Dual Superlyophobic Copper Foam with Good Durability and Recyclability for High Flux, High Efficiency, and Continuous Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9841-9848.	4.0	92
100	Super-elastic and highly hydrophobic/superoleophilic sodium alginate/cellulose aerogel for oil/water separation. <i>Cellulose</i> , 2018, 25, 3533-3544.	2.4	115
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102	Green, Biodegradable, Underwater Superoleophobic Wood Sheet for Efficient Oil/Water Separation. <i>ACS Omega</i> , 2018, 3, 1395-1402.	1.6	61
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105	Nanosecond Laser-Induced Underwater Superoleophobic and Underoil Superhydrophobic Mesh for Oil/Water Separation. <i>Langmuir</i> , 2018, 34, 2981-2988.	1.6	80
106	Polyaniline Nanofibers: Their Amphiphilicity and Uses for Pickering Emulsions and On-Demand Emulsion Separation. <i>Langmuir</i> , 2018, 34, 2841-2848.	1.6	27
107	Facile way in fabricating a cotton fabric membrane for switchable oil/water separation and water purification. <i>Applied Surface Science</i> , 2018, 441, 500-507.	3.1	29
108	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
109	Novel dual superlyophobic materials in water/oil systems: under oil magneto-fluid transportation and oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2935-2941.	5.2	57
110	Easily enlarged and coating-free underwater superoleophobic fabric for oil/water and emulsion separation via a facile NaClO <sub>2</sub> treatment. <i>Separation and Purification Technology</i> , 2018, 195, 358-366.	3.9	44
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114	An underwater superoleophobic nanofibrous cellulosic membrane for oil/water separation with high separation flux and high chemical stability. <i>Nanoscale</i> , 2018, 10, 3037-3045.	2.8	122
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116	Natural rubber particle modified fabrics with catalytic activity and hydrophobicity. <i>Composites Science and Technology</i> , 2018, 162, 123-130.	3.8	12
117	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
118	An alternative fabrication of underoil superhydrophobic or underwater superoleophobic stainless steel meshes for oil-water separation: Originating from one-step vapor deposition of polydimethylsiloxane. <i>Separation and Purification Technology</i> , 2018, 204, 116-126.	3.9	52
119	Tuning the extent of porosity and composition of N-doped carbon materials by NaNO <sub>3</sub> and its effect on electrochemical activity. <i>Materials Research Bulletin</i> , 2018, 104, 134-142.	2.7	11
120	Zeolitic imidazolate framework-8 film coated stainless steel meshes for highly efficient oil/water separation. <i>Chemical Communications</i> , 2018, 54, 5530-5533.	2.2	61
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122	One-step assembly of Fe(III)-CMC chelate hydrogel onto nanoneedle-like CuO@Cu membrane with superhydrophilicity for oil-water separation. <i>Applied Surface Science</i> , 2018, 440, 560-569.	3.1	59
123	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
124	A Review of Femtosecond-Laser-Induced Underwater Superoleophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701370.	1.9	95
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128	Facile design of superhydrophobic and superoleophilic copper mesh assisted by candle soot for oil water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 294-302.	2.3	79
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131	Facile preparation of a smart membrane with ammonia-responsive wettability transition for controllable oil/water separation. <i>Journal of Materials Science</i> , 2018, 53, 516-527.	1.7	23
132	Blend-electrospun poly(vinylidene fluoride)/stearic acid membranes for efficient separation of water-in-oil emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 494-499.	2.3	39
133	Underoil superhydrophilic desert sand layer for efficient gravity-directed water-in-oil emulsions separation with high flux. <i>Journal of Materials Chemistry A</i> , 2018, 6, 223-230.	5.2	242
134	Engineering lotus leaf-inspired micro- and nanostructures for the manipulation of functional engineering platforms. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 39-52.	2.9	42
135	Bioinspired nanoparticle spray-coating for superhydrophobic flexible materials with oil/water separation capabilities. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 024001.	1.5	30
136	Nano-cellulose hydrogel coated flexible titanate-bismuth oxide membrane for trinity synergistic treatment of super-intricate anion/cation/oily-water. <i>Chemical Engineering Journal</i> , 2018, 337, 143-151.	6.6	63
137	Removal of Organic Pollutants from Water Using Superwetting Materials. <i>Chemical Record</i> , 2018, 18, 118-136.	2.9	61
138	A smart engineering material with UVâ€­induced switchable wettability for controllable oil/water separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 476-488.	1.6	25
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140	Protective effects of a nanoemulsion adjuvant vaccine (2C-Staph/NE) administered intranasally against invasive <i>Staphylococcus aureus</i> pneumonia. <i>RSC Advances</i> , 2018, 8, 9996-10008.	1.7	7
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142	Superhydrophobic engineering materials provide a rapid and simple route for highly efficient self-driven crude oil spill cleanup. <i>RSC Advances</i> , 2018, 8, 38363-38369.	1.7	1
143	Underwater superoleophobic polyurethane-coated mesh with excellent stability for oil/water separation. <i>RSC Advances</i> , 2018, 8, 39657-39666.	1.7	7
144	Review: Porous Metal Filters and Membranes for Oilâ€­Water Separation. <i>Nanoscale Research Letters</i> , 2018, 13, 284.	3.1	77
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146	Decomposable Polyvinyl Alcohol-Based Super-Hydrophobic Three-Dimensional Porous Material for Effective Water/Oil Separation. <i>Langmuir</i> , 2018, 34, 15700-15707.	1.6	43
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154	Hydrophilic and hydrophobic materials and their applications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2686-2725.	1.2	119
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157	Rational Design of Superhydrophilic/Superoleophobic Surfaces for Oil/Water Separation via Thiol/Acrylate Photopolymerization. <i>ACS Omega</i> , 2018, 3, 10278-10285.	1.6	32
158	A universal copper mesh with on-demand wettability fabricated by pulsed laser ablation for oil/water separation. <i>Surface and Coatings Technology</i> , 2018, 348, 73-80.	2.2	32
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160	Preparation of novel cotton fabric composites with pH controlled switchable wettability for efficient water-in-oil and oil-in-water emulsions separation. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	12
161	Dual superlyophobic surfaces with superhydrophobicity and underwater superoleophobicity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11682-11687.	5.2	56
162	Biomimetic fabrication of superhydrophobic loofah sponge: robust for highly efficient oil/water separation in harsh environments. <i>RSC Advances</i> , 2018, 8, 24297-24304.	1.7	28
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185	Facile fabrication of superhydrophobic wood slice for effective water-in-oil emulsion separation. <i>Separation and Purification Technology</i> , 2019, 210, 402-408.	3.9	94
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288	Under-oil superhydrophilic TiO <sub>2</sub> /poly(sodium vinylphosphonate) nanocomposite for the separation of water from oil. <i>Separation and Purification Technology</i> , 2020, 251, 117397.	3.9	6
289	Mussel-inspired synthesis of filter cotton-based AgNPs for oil/water separation, antibacterial and catalytic application. <i>Materials Today Communications</i> , 2020, 25, 101467.	0.9	8
290	Designing novel superwetting surfaces for high-efficiency oil-in-water separation: design principles, opportunities, trends and challenges. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16831-16853.	5.2	194
291	Preparation of Edible Non-wettable Coating with Soybean Wax for Repelling Liquid Foods with Little Residue. <i>Materials</i> , 2020, 13, 3308.	1.3	25

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293	PVDF-Modified TiO <sub>2</sub> Nanowires Membrane with Underliquid Dual Superlyophobic Property for Switchable Separation of Oil-in-Water Emulsions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40925-40936.	4.0	51
294	Prewetting Polypropylene-Wood Pulp Fiber Composite Nonwoven Fabric for Oil-in-Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46923-46932.	4.0	30
295	Superhydrophobic and Sustainable Nanostructured Powdered Iron for the Efficient Separation of Oil-in-Water Emulsions and the Capture of Microplastics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45629-45640.	4.0	29
296	Endowing Metal Surfaces With Underwater Superoleophobicity by Femtosecond Laser Processing for Oil-Water Separation Application. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	7
297	Fabrication of diverse carbon forms and their reversed applications in hexane/water separation. <i>Water Science and Technology</i> , 2020, 82, 1296-1303.	1.2	3
298	A simple and environmental strategy to separate and purify dye-contaminated emulsion using waste porous honeycomb cinder. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 1028-1038.	1.3	2
299	A CVD-Assisted Modification Approach for Preparing a Dual Superlyophobic Fabric with In-Air Superhydrophobicity and Underwater Superoleophobicity. <i>Langmuir</i> , 2020, 36, 5802-5808.	1.6	12
300	Multifaceted applications of cellulosic porous materials in environment, energy, and health. <i>Progress in Polymer Science</i> , 2020, 106, 101253.	11.8	63
301	Pine powders-coated PVDF multifunctional membrane for highly efficient switchable oil/water emulsions separation and dyes adsorption. <i>Separation and Purification Technology</i> , 2020, 248, 117028.	3.9	54
302	Bioinspired surface with special wettability for liquid transportation and separation. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00175.	1.7	15
303	3D Superhydrophobic Sponge Coated with Magnesium Hydroxide for Effective Oil/Water Mixture and Emulsion Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11713-11722.	1.8	29
304	Fabrication of pre-wetting induced superamphiphobic meshes for on-demand oil-water separation of light or heavy oil-water mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125095.	2.3	25
305	Cellulose acetate monolith with hierarchical micro/nano-porous structure showing superior hydrophobicity for oil/water separation. <i>Carbohydrate Polymers</i> , 2020, 241, 116361.	5.1	35
306	Chemically stable two-dimensional MXene@UIO-66-(COOH) <sub>2</sub> composite lamellar membrane for multi-component pollutant-oil-water emulsion separation. <i>Composites Part B: Engineering</i> , 2020, 197, 108188.	5.9	79
307	Facile fabrication of hydrophilic-underwater superoleophobic poly(N-isopropylacrylamide) coated PP/LPET nonwoven fabrics for highly efficient oil/water separation. <i>Progress in Organic Coatings</i> , 2020, 148, 105780.	1.9	15
308	An anti-UV superhydrophobic material with photocatalysis, self-cleaning, self-healing and oil/water separation functions. <i>Nanoscale</i> , 2020, 12, 11455-11459.	2.8	55
309	Special wettable underwater superoleophobic material for effective simultaneous removal of high viscous insoluble oils and soluble dyes from wastewater. <i>Journal of Membrane Science</i> , 2020, 603, 118026.	4.1	16

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311	Sandwiched meshes with superwettability for oil/water separation and heavy metal ion absorption. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2542.	0.8	5
312	Reduction of imine-based cross-linkages to achieve sustainable underwater superoleophobicity that performs under challenging conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15148-15156.	5.2	13
313	Superhydrophobic and superelastic thermoplastic polyurethane/multiwalled carbon nanotubes porous monolith for durable oil/water separation. <i>Composites Communications</i> , 2020, 21, 100378.	3.3	62
314	NaA zeolite-coated meshes with tunable hydrophilicity for oil-water separation. <i>Separation and Purification Technology</i> , 2020, 240, 116630.	3.9	48
315	Mussel-Inspired Dual-Superlyophobic Biomass Membranes for Selective Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901756.	1.9	25
316	Ultrathin microporous membrane with high oil intrusion pressure for effective oil/water separation. <i>Journal of Membrane Science</i> , 2020, 608, 118201.	4.1	59
317	Fluorine-free preparation of self-healing and anti-fouling superhydrophobic Ni <sub>3</sub> S <sub>2</sub> coating on 304 stainless steel. <i>Chemical Engineering Journal</i> , 2020, 394, 124925.	6.6	64
318	Superhydrophobic Nickel-Electroplated Carbon Fibers for Versatile Oil/Water Separation with Excellent Reusability and High Environmental Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24390-24402.	4.0	72
319	Mussel-inspired fabrication of superhydrophobic cotton fabric for oil/water separation and visible light photocatalytic. <i>Cellulose</i> , 2020, 27, 5421-5433.	2.4	35
320	Multifunctional CNTs-PAA/MIL101(Fe)@Pt Composite Membrane for High-throughput Oily Wastewater Remediation. <i>Journal of Hazardous Materials</i> , 2021, 403, 123547.	6.5	35
321	Ni-doped brochantite@copper hydroxide hierarchical structures on copper mesh with ultrahigh oil-resistance for high-efficiency oil/water separation. <i>Surface and Coatings Technology</i> , 2021, 406, 126642.	2.2	13
322	Three-dimensional structure design of tubular polyvinyl chloride hybrid nanofiber membranes for water-in-oil emulsion separation. <i>Journal of Membrane Science</i> , 2021, 620, 118905.	4.1	46
323	3D multiscale sponges with plant-inspired controllable superhydrophobic coating for oil spill cleanup. <i>Progress in Organic Coatings</i> , 2021, 151, 106075.	1.9	8
324	An instant oil separation by octadecyl-polysiloxane-reticulated recyclable superhydrophobic polyester fabric. <i>Environmental Technology and Innovation</i> , 2021, 21, 101322.	3.0	10
325	A facile synthesis of graphene oxide/locust bean gum hybrid aerogel for water purification. <i>Carbohydrate Polymers</i> , 2021, 254, 117318.	5.1	41
326	Green fabrication of biodegradable cork membrane for switchable separation of oil/water mixtures. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 286-297.	1.3	2
327	Ultrafast Oxidative Desulfurization of Diesel Fuels by Mass Transfer Enhancement of Polyoxometalate Modified Alumina Catalysts. <i>Energy &amp; Fuels</i> , 2021, 35, 2110-2120.	2.5	16

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329	The Role of the Fiber/Bead Hierarchical Microstructure on the Properties of PVDF Coatings Deposited by Electrospinning. <i>Polymers</i> , 2021, 13, 464.	2.0	8
330	Preparation of superhydrophilic/underwater superoleophobic membranes for separating oil-in-water emulsion: mechanism, progress, and perspective. <i>Journal of Coatings Technology Research</i> , 2021, 18, 285-310.	1.2	17
331	Superwettability-based separation: From oil/water separation to polymer/water separation and bubble/water separation. <i>Nano Select</i> , 2021, 2, 1580-1588.	1.9	10
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333	Solar-Assisted, Fast, and <i>In Situ</i> Recovery of Crude Oil Spill by a Superhydrophobic and Photothermal Sponge. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21175-21185.	4.0	79
334	A solvent-responsive robust superwetting titanium dioxide-based metal rubber for oil-water separation and dye degradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126179.	2.3	13
335	In Situ Oil Separation and Collection from Water under Surface Wave Condition. <i>Langmuir</i> , 2021, 37, 6257-6267.	1.6	1
336	Facile separation of aromatic pollutant/water by lignosulfonate based superparamagnetic composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126312.	2.3	5
337	Superhydrophobic cellulose acetate/multiwalled carbon nanotube monolith with fiber cluster network for selective oil/water separation. <i>Carbohydrate Polymers</i> , 2021, 259, 117750.	5.1	33
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339	An integrated separating system constructed by laser-patterned commercially available materials towards oily domestic sewage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126566.	2.3	3
340	Graphene-bentonite supported free-standing, flexible membrane with switchable wettability for selective oil-water separation. <i>Separation and Purification Technology</i> , 2021, 266, 118569.	3.9	34
341	Environmentally Friendly Chitosan-Modified Polycaprolactone Nanofiber/Nanonet Membrane for Controllable Oil/Water Separation. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3891-3901.	2.0	47
342	Designing nanofibrous membrane with biomimetic caterpillar-like structured for highly-efficient and simultaneous removal of insoluble emulsified oils and soluble dyes towards sewage remediation. <i>Journal of Hazardous Materials</i> , 2021, 414, 125442.	6.5	25
343	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
344	Selective separation of oil-in-water emulsion with high efficiency by bio-inspired Janus membrane. <i>Science China Technological Sciences</i> , 2021, 64, 2211-2219.	2.0	5
345	Facile preparation of durable superhydrophobic-superoleophilic mesh using simple chemical oxidation for oil-water separation under harsh conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126777.	2.3	22

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347	Steamed bun-derived microporous carbon for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 629, 127389.	2.3	3
348	Pickering emulsion strategy to control surface wettability of polymer microspheres for oil/water separation. <i>Applied Surface Science</i> , 2021, 566, 150742.	3.1	17
349	Robust PVA-GO-TiO <sub>2</sub> composite membrane for efficient separation oil-in-water emulsions with stable high flux. <i>Journal of Membrane Science</i> , 2021, 640, 119836.	4.1	105
350	MoS <sub>2</sub> /CuS nanosheets coated on brass mesh with switchable superwettability for efficient immiscible organic solvent/water separation. <i>Applied Surface Science</i> , 2021, 570, 151128.	3.1	16
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352	Chitosan-Functionalized Recycled Polyethylene Terephthalate Nanofibrous Membrane for Sustainable On-Demand Oil/Water Separation. <i>Global Challenges</i> , 2021, 5, 2000107.	1.8	16
353	Construction of superhydrophilic/underwater superoleophobic polydopamine-modified h-BN/poly(arylene ether nitrile) composite membrane for stable oil/water emulsions separation. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1007-1018.	1.6	28
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355	Superhydrophobic Aerogel as Sorbents for Iraqi Crude Oil Leaked In Water. <i>Mustansiriyah Journal of Science</i> , 2019, 29, 124.	0.2	0
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358	Superwetting and photocatalytic Ag <sub>2</sub> O/TiO <sub>2</sub> @Cu <sub>2</sub> O nanocomposite-coated mesh membranes for oil/water separation and soluble dye removal. <i>Materials Today Chemistry</i> , 2022, 23, 100717.	1.7	14
359	A novel bioprocess engineering approach to recycle hydrophilic and hydrophobic waste under high salinity conditions for the production of nutraceutical compounds. <i>Chemical Engineering Journal</i> , 2022, 431, 133955.	6.6	16
360	A Materials Science Perspective of Midstream Challenges in the Utilization of Heavy Crude Oil. <i>ACS Omega</i> , 2022, 7, 1547-1574.	1.6	14
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362	Multiphase media superwettability regulated by coexisting prewetting phase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128505.	2.3	2
363	ZnO/WO <sub>3</sub> .H <sub>2</sub> O micro-nanostructures coated mesh for efficient separation of oil-water mixture. <i>Applied Surface Science</i> , 2022, 583, 152476.	3.1	23

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365	Emerging Separation Applications of Surface Superwettability. <i>Nanomaterials</i> , 2022, 12, 688.	1.9	12
366	Numerical investigation of oil/water separation on a mesh-type filter. <i>Acta Mechanica</i> , 2022, 233, 1041-1059.	1.1	2
367	Superhydrophobic straw felt for oil absorption. <i>Results in Engineering</i> , 2022, 13, 100370.	2.2	9
368	Biopolymer-based membranes: green technologies for the separation of oil/water mixtures and the reduction of oil pollution. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1961-1985.	2.1	5
369	Upcycling Waste Pine nut Shell Membrane for Highly Efficient Separation of Crude Oil-in-Water Emulsion. <i>Langmuir</i> , 2022, 38, 3493-3500.	1.6	81
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371	A special underoil superhydrophilic (UOSHL) membrane: Growing of copper phosphate (Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ) 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
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375	Novel fabrication of hydrophobic/oleophilic human hair fiber for efficient oil/water separation through one-pot dip-coating synthesis route. <i>Scientific Reports</i> , 2022, 12, 7632.	1.6	5
376	Synthesis of sustainable poly(S-Abietic-co-Pinene) through inverse vulcanization of Kurdica gum and used to fabricate durable and recyclable super-hydrophobic cotton wool filter: Oil-water separation application. <i>Progress in Organic Coatings</i> , 2022, 168, 106862.	1.9	4
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378	Green Preparation of a Carboxymethyl Cellulose-Coated Membrane for Highly Efficient Separation of Crude Oil-In-Water Emulsions. <i>Langmuir</i> , 2022, 38, 7067-7076.	1.6	28
379	Super-Hydrophobic Graphene-Coated Thermoplastic Polyurethane Porous Monolith with Superior Photothermal Effect for Solar-Assisted Efficient Cleanup of Crude Oil Spill. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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381	A facile surface modification approach to fabricate durable underwater superoleophobic stainless steel mesh for efficient oily wastewater purification. <i>Bulletin of Materials Science</i> , 2022, 45, .	0.8	1

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383	Design of a simple nanoscale hydrophilic-hydrophobic heterojunction system with under-liquid dual superlyophobicity for application in controllable droplet-based microreactor system and oil/water emulsions separation. <i>Separation and Purification Technology</i> , 2022, 299, 121817.	3.9	3
384	Recycled Synthetic Polymer-Based Electrospun Membranes for Filtering Applications. , 0, , .		0
385	Candle Soot-Based Electrospayed Superhydrophobic Coatings for Self-Cleaning, Anti-Corrosion and Oil/Water Separation. <i>Materials</i> , 2022, 15, 5300.	1.3	3
386	Preparation of Special Wettability Quartz Sand Filter Media and Its Synchronous Oil/Water Mixture Separation and Dye Adsorption. <i>Sustainability</i> , 2022, 14, 9860.	1.6	1
387	Janus Nanofiber Antibacterial Membrane for Switchable Separation of Oil/Water Emulsions. <i>ACS Applied Nano Materials</i> , 2022, 5, 13037-13046.	2.4	6
388	Super-hydrophobic graphene-coated thermoplastic polyurethane porous monolith with superior photothermal effect for solar-assisted efficient cleanup of crude oil spill. <i>Applied Surface Science</i> , 2022, 605, 154701.	3.1	13
389	Polydimethylsiloxane based sustainable hydrophobic/oleophilic coatings for oil/water separation: A review. <i>Cleaner Materials</i> , 2022, 6, 100136.	1.9	4
390	Current research situation and future prospect of superwetting smart oil/water separation materials. <i>Journal of Materials Chemistry A</i> , 2022, 10, 20190-20217.	5.2	107
391	Low-Cost and High-Stability Superhydrophilic/Underwater Superoleophobic Naa Zeolite/Copper Mesh Composite MembranesÂFor Oil/Water Separation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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395	Recent advances in eco-friendly fabrics with special wettability for oil/water separation. <i>Chemical Communications</i> , 2022, 58, 13413-13438.	2.2	23
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397	A smart underoilâ€ewater diodeâ€Janus TiO2 mesh membrane. <i>Chemical Engineering Journal</i> , 2023, 456, 141038.	6.6	3
398	Superhydrophobic copper foam bed with extended permeation channels for water-in-oil emulsion separation with high efficiency and flux. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109018.	3.3	6
399	A review of superwetting membranes and nanofibers for efficient oil/water separation. <i>Journal of Materials Science</i> , 2023, 58, 3-33.	1.7	22

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401	A Weaving Method to Prepare Double-Layer Janus Fabric for Oil-Water Separation. <i>Fibers and Polymers</i> , 2022, 23, 3624-3637.	1.1	1
402	Fabrication of multifunctional WO <sub>3</sub> .H <sub>2</sub> O flower-like micro/nanostructures for the oily wastewater treatment. <i>Surfaces and Interfaces</i> , 2023, 36, 102620.	1.5	2
403	Materials and Design of Fabric-Based Membrane Filtration for Oily Wastewater Treatment. <i>ACS Symposium Series</i> , 0, , 1-39.	0.5	0
404	pH-Responsive Carbon Foams with Switchable Wettability Made from Larch Sawdust for Oil Recovery. <i>Polymers</i> , 2023, 15, 638.	2.0	1
405	A versatile platform of corn stalk-based membranes for high performance of oil/water separation. <i>Vacuum</i> , 2023, 210, 111862.	1.6	1
406	Low-cost and high-stability superhydrophilic/underwater superoleophobic NaA zeolite/copper mesh composite membranes for oil/water separation. <i>Surfaces and Interfaces</i> , 2023, 37, 102703.	1.5	5
407	Dual Superlyophobic Materials for Under-Liquid Microfluid Manipulation, Immiscible Solvent Separation, and CO <sub>2</sub> Blockage. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 19761-19772.	4.0	1
408	Underwater Superoleophobic and Underoil Superhydrophilic Copper Benzene-1,3,5-tricarboxylate (HKUST-1) Mesh for Self-Cleaning and On-Demand Emulsion Separation. <i>Langmuir</i> , 2023, 39, 6201-6210.	1.6	5
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421	Intelligent Oil and Water Separation by Selectively and Regionally Pre-wetting In-air Superamphiphobic Copper Foams. , 2023, , .		0