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A novel superhydrophilic and underwater  
superoleophobic hydrogel-coated mesh for oil/water separation

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1372	PANI nanowire film with underwater superoleophobicity and potential-modulated tunable adhesion for no loss oil droplet transport. <b>2012</b> , 8, 9064		88
1371	Hydrogen bond nanoscale networks showing switchable transport performance. <b>2012</b> , 2, 612		37
1370	Polyacrylamide: Evaluation of Ultralow Fouling Properties of a Traditional Material. <b>2012</b> , 661-676		2
1369	Magnetically driven floating foams for the removal of oil contaminants from water. <b>2012</b> , 6, 5413-9		528
1368	An underwater pH-responsive superoleophobic surface with reversibly switchable oil-adhesion. <b>2012</b> , 8, 6740		79
1367	Remotely triggered release from composite hydrogel sponges. <b>2012</b> , 8, 1811-1816		21
1366	Underwater superoleophilicity to superoleophobicity: role of trapped air. <b>2012</b> , 48, 11745-7		57
1365	pH-controllable water permeation through a nanostructured copper mesh film. <b>2012</b> , 4, 5826-32		46
1364	Ultraviolet-durable superhydrophobic zinc oxide-coated mesh films for surface and underwater-oil capture and transportation. <b>2012</b> , 28, 10015-9		150
1363	Smart surfaces with switchable superoleophilicity and superoleophobicity in aqueous media: toward controllable oil/water separation. <b>2012</b> , 4, e8-e8		402
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1349	Surface wetting in liquid-liquid-solid triphase systems: solid-phase-independent transition at the liquid-liquid interface by Lewis acid-base interactions. <b>2012</b> , 51, 8348-51	37
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1064	A facile approach to silica-modified polysulfone microfiltration membranes for oil-in-water emulsion separation. <b>2016</b> , 6, 41323-41330		10
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1030	Highly Hydrophobic and Superoleophilic Nanofibrous Mats with Controllable Pore Sizes for Efficient Oil/Water Separation. <b>2016</b> , 32, 9960-9966		41
1029	A strong, underwater superoleophobic PNIPAM/clay nanocomposite hydrogel. <b>2016</b> , 4, 12884-12888		49
1028	A robust salt-tolerant superoleophobic aerogel inspired by seaweed for efficient oil-water separation in marine environments. <b>2016</b> , 18, 25394-25400		41
1027	Oil removal from water/oil emulsions using magnetic nanocomposite fibrous mats. <b>2016</b> , 6, 71100-71107		24
1026	Physical properties of clay aerogel composites: An overview. <b>2016</b> , 102, 29-37		28
1025	Highly Flexible and Resilient Elastin Hybrid Cryogels with Shape Memory, Injectability, Conductivity, and Magnetic Responsive Properties. <i>Advanced Materials</i> , <b>2016</b> , 28, 7758-67	24	104
1024	Electric Field Induced Switchable Wettability to Water on the Polyaniline Membrane and Oil/Water Separation. <b>2016</b> , 3, 1600461		109
1023	One-Step Assembly of Phytic Acid Metal Complexes for Superhydrophilic Coatings. <b>2016</b> , 128, 9239-9242		27
1022	Janus Membranes: Exploring Duality for Advanced Separation. <b>2016</b> , 55, 13398-13407		284
1021	One-Step Assembly of Phytic Acid Metal Complexes for Superhydrophilic Coatings. <b>2016</b> , 55, 9093-6		83
1020	Femtosecond laser ablated durable superhydrophobic PTFE films with micro-through-holes for oil/water separation: Separating oil from water and corrosive solutions. <b>2016</b> , 389, 1148-1155		127
1019	Antifouling performance of poly(lysine methacrylamide)-grafted PVDF microfiltration membrane for solute separation. <i>Separation and Purification Technology</i> , <b>2016</b> , 171, 1-10	8.3	44
1018	Molecular investigation of oil/water separation using PVDF polymer by molecular dynamic simulation. <b>2016</b> , 6, 74124-74134		23
1017	Hydrophobicity and tribology of large-area textured copper with nanogrown copper oxide. <b>2016</b> , 4, 205-213		2
1016	A new nano-engineered hierarchical membrane for concurrent removal of surfactant and oil from oil-in-water nanoemulsion. <b>2016</b> , 6, 24365		31
1015	Janus-Membranen: Erforschung ihrer Dualität für hochentwickelte Stofftrennungen. <b>2016</b> , 128, 13596-13605		12
1014	Recycling of PE glove waste as highly valuable products for efficient separation of oil-based contaminants from water. <b>2016</b> , 4, 18128-18133		20

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1004	Bioinspired materials for water supply and management: water collection, water purification and separation of water from oil. <b>2016</b> , 374,	74
1003	Microfluidic fabrication of magnetic porous multi-walled carbon nanotube beads for oil and organic solvent adsorption. <b>2016</b> , 4, 10479-10485	30
1002	Tailoring surface charge and wetting property for robust oil-fouling mitigation in membrane distillation. <i>Journal of Membrane Science</i> , <b>2016</b> , 516, 113-122	9.6 98
1001	Superhydrophilic and underwater superoleophobic titania nanowires surface for oil repellency and oil/water separation. <b>2016</b> , 301, 249-256	142
1000	Selective separation of oil and water with mesh membranes by capillarity. <b>2016</b> , 235, 46-55	54
999	Hierarchical nanoparticle-induced superhydrophilic and under-water superoleophobic Cu foam with ultrahigh water permeability for effective oil/water separation. <b>2016</b> , 4, 10566-10574	54
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997	Facile fabrication of underwater superoleophobic SiO <sub>2</sub> coated meshes for separation of polluted oils from corrosive and hot water. <i>Separation and Purification Technology</i> , <b>2016</b> , 168, 209-214	8.3 40
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995	A Co <sub>3</sub> O <sub>4</sub> nano-needle mesh for highly efficient, high-flux emulsion separation. <b>2016</b> , 4, 12014-12019	87
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992	Flexible Hierarchical TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Composite Membrane with High Separation Efficiency for Surfactant-Stabilized Oil-Water Emulsions. <b>2016</b> , 11, 561-7	20
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984	Bioinspired Interfaces with Superwettability: From Materials to Chemistry. <b>2016</b> , 138, 1727-48	720
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974	A modified mussel-inspired method to fabricate TiO <sub>2</sub> decorated superhydrophilic PVDF membrane for oil/water separation. <i>Journal of Membrane Science</i> , <b>2016</b> , 506, 60-70	9.6	328
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972	Opposite and complementary: a superhydrophobic-superhydrophilic integrated system for high-flux, high-efficiency and continuous oil/water separation. <b>2016</b> , 4, 4365-4370		73
971	Fabrication of novel superhydrophilic and underwater superoleophobic hierarchically structured ceramic membrane and its separation performance of oily wastewater. <b>2016</b> , 42, 8604-8612		33
970	Capturing nitrosamines in aqueous solution by composited super-hydrophobic silicic xerogel. <b>2016</b> , 227, 161-168		4
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964	Washable and antibacterial superhydrophobic fabric. <b>2016</b> , 364, 81-85		37
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962	Bionanotechnology: Lessons from Nature for Better Material Properties. <b>2016</b> , 535-553		1
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960	A prewetting induced underwater superoleophobic or underoil (super) hydrophobic waste potato residue-coated mesh for selective efficient oil/water separation. <b>2016</b> , 18, 541-549		373



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946	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605307	24 115
945	Chemical and Equipment-Free Strategy To Fabricate Water/Oil Separating Materials for Emergent Oil Spill Accidents. <b>2017</b> , 33, 2664-2670	20
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932	Durable underwater superoleophobic PDDA/halloysite nanotubes decorated stainless steel mesh for efficient oil/water separation. <b>2017</b> , 416, 344-352	45
931	Facile Design and Fabrication of Superwetting Surfaces with Excellent Wear-Resistance. <b>2017</b> , 9, 15776-15784	51
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927	Improved Interfacial Floatability of Superhydrophobic/Superhydrophilic Janus Sheet Inspired by Lotus Leaf. <b>2017</b> , 27, 1701466	106
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921	A review of the recent advances in design of corrugated plate packs applied for oil/water separation. <b>2017</b> , 53, 37-50	25
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917	Oil/water separation techniques: a review of recent progresses and future directions. <b>2017</b> , 5, 16025-16058	585
916	Surface modification of melamine sponges for pH-responsive oil absorption and desorption. <b>2017</b> , 416, 798-804	39
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913	Fabrication and Wettability Study of WO Coated Photocatalytic Membrane for Oil-Water Separation: A Comparative Study with ZnO Coated Membrane. <b>2017</b> , 7, 1686	37
912	Rapidly Degradable and Sustainable Polyhemiaminal Aerogels for Self-Driven Efficient Separation of Oil/Water Mixture. <b>2017</b> , 56, 6508-6514	8
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905	Separation of Oil-in-Water Emulsions Using Hydrophilic Electrospun Membranes with Anisotropic Pores. <b>2017</b> , 33, 5872-5878		35
904	Tunable Wettability of Electrospun Polyurethane/Silica Composite Membranes for Effective Separation of Water-in-Oil and Oil-in-Water Emulsions. <b>2017</b> , 23, 11253-11260		42
903	Mussel-Inspired Polyglycerol Coatings with Controlled Wettability: From Superhydrophilic to Superhydrophobic Surface Coatings. <b>2017</b> , 33, 9508-9520		25
902	Oil/water interfaces of guar gum-based biopolymer hydrogels and application to their separation. <b>2017</b> , 169, 9-15		50
901	Bioinspired Smart Materials for Directional Liquid Transport. <b>2017</b> , 56, 4887-4897		60
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896	Tannin-inspired superhydrophilic and underwater superoleophobic polypropylene membrane for effective oil/water emulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 522, 585-592	5.1	54
895	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiber-Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. <b>2017</b> , 13, 1700391		95
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893	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. <i>Separation and Purification Technology</i> , <b>2017</b> , 177, 71-85	8.3	110
892	Fluorine-Induced Superhydrophilic Ti Foam with Surface Nanocavities for Effective Oil-in-Water Emulsion Separation. <b>2017</b> , 56, 699-707		26
891	The impact of low-surface-energy functional groups on oil fouling resistance in membrane distillation. <i>Journal of Membrane Science</i> , <b>2017</b> , 527, 68-77	9.6	43
890	Inorganic Adhesives for Robust Superwetting Surfaces. <b>2017</b> , 11, 1113-1119		162
889	Efficient removal of oil from oil contaminated water by superhydrophilic and underwater superoleophobic nano/micro structured TiO nanofibers coated mesh. <b>2017</b> , 171, 134-141		40
888	Synthesis of pH-sensitive and recyclable magnetic nanoparticles for efficient separation of emulsified oil from aqueous environments. <b>2017</b> , 396, 1604-1612		53

887	A catechol-based biomimetic strategy combined with surface mineralization to enhance hydrophilicity and anti-fouling property of PTFE flat membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 524, 409-418	9.6	60
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885	Controlling states of water droplets on nanostructured surfaces by design. <b>2017</b> , 9, 18240-18245		30
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882	Pouring-type gravity-driven oil/water separation without water bridge. <b>2017</b> , 12, 744-748		6
881	Durable superhydrophobic and superamphiphobic polymeric surfaces and their applications: A review. <b>2017</b> , 250, 132-157		138
880	Superlyophilic Interfaces and Their Applications. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703120	24	52
879	Dually Prewetted Underwater Superoleophobic and under Oil Superhydrophobic Fabric for Successive Separation of Light Oil/Water/Heavy Oil Three-Phase Mixtures. <b>2017</b> , 9, 36368-36376		57
878	Morphology-Induced TiO <sub>2</sub> Bandgap Change for Super Rapid Treatment of Dye Wastewater under Visible Light. <b>2017</b> , 2, 1700125		9
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876	Underwater Superoleophobic Wood Cross Sections for Efficient Oil/Water Separation. <b>2017</b> , 4, 1700584		46
875	Nanofibrous metal-organic framework composite membrane for selective efficient oil/water emulsion separation. <i>Journal of Membrane Science</i> , <b>2017</b> , 543, 10-17	9.6	96
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873	Smart candle soot coated membranes for on-demand immiscible oil/water mixture and emulsion switchable separation. <b>2017</b> , 9, 13610-13617		112
872	Hierarchical membranes with size-controlled nanopores from photofluidization of electrospun azobenzene polymer fibers. <b>2017</b> , 5, 18762-18769		30
871	Gas-switchable carbon nanotube/polymer hybrid membrane for separation of oil-in-water emulsions. <b>2017</b> , 7, 39465-39470		12
870	Highly Efficient and Robust Oil/Water Separation Materials Based on Wire Mesh Coated by Reduced Graphene Oxide. <b>2017</b> , 33, 9590-9597		21

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867	Tribological properties of fish scale inspired underwater superoleophobic hierarchical structure in aqueous environment. <b>2017</b> , 4, 106504	3
866	Femtosecond laser induced robust periodic nanoripple structured mesh for highly efficient oil-water separation. <b>2017</b> , 9, 14229-14235	219
865	Effect of titanium dioxide (TiO <sub>2</sub> ) with different crystal forms and surface modifications on cooling property and surface wettability of cool roofing materials. <b>2017</b> , 172, 34-43	40
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860	Nanostructured TiO <sub>2</sub> /CuO dual-coated copper meshes with superhydrophilic, underwater superoleophobic and self-cleaning properties for highly efficient oil/water separation. <b>2017</b> , 328, 497-510	86
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858	Fabrication of superhydrophobic and superoleophilic polymer composite coatings on cellulosic filter paper for oil/water separation. <b>2017</b> , 24, 4405-4418	31
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854	Antifouling, high-flux oil/water separation carbon nanotube membranes by polymer-mediated surface charging and hydrophilization. <i>Journal of Membrane Science</i> , <b>2017</b> , 542, 254-263	9.6 72
853	Oil/Water Separation Using Superhydrophobic PET Membranes Fabricated Via Simple Dip-Coating Of PDMS/SiO <sub>2</sub> Nanoparticles. <b>2017</b> , 302, 1700218	29
852	A core-shell fiber-constructed pH-responsive nanofibrous hydrogel membrane for efficient oil/water separation. <b>2017</b> , 5, 19398-19405	59

851	Closed Pore Structured NiCoO-Coated Nickel Foams for Stable and Effective Oil/Water Separation. <b>2017</b> , 9, 29177-29184		43
850	Rapid and selective surface functionalization of the membrane for high efficiency oil-water separation via an atmospheric pressure plasma process. <b>2017</b> , 7, 15345		14
849	Synthesis of porous polymer/tissue paper hybrid membranes for switchable oil/water separation. <b>2017</b> , 7, 3101		16
848	Cellulose Sponge with Superhydrophilicity and High Oleophobicity Both in Air and under Water for Efficient Oil/Water Emulsion Separation. <b>2017</b> , 302, 1700086		20
847	Highly efficient oil/water separation and trace organic contaminants removal based on superhydrophobic conjugated microporous polymer coated devices. <b>2017</b> , 326, 640-646		50
846	Fabrication of robust mesh with anchored Ag nanoparticles for oil removal and in situ catalytic reduction of aromatic dyes. <b>2017</b> , 5, 15822-15827		47
845	Nature-inspired superwettability systems. <b>2017</b> , 2,		802
844	Selective filtration of oil/water mixtures with bioinspired porous membranes. <b>2017</b> , 7, 32806-32811		13
843	Ultradurable underwater superoleophobic surfaces obtained by vapor-synthesized layered polymer nanocoatings for highly efficient oil/water separation. <b>2017</b> , 5, 14990-14995		44
842	Effects of geometrical parameters of an oil-water separator on the oil-recovery rate. <b>2017</b> , 31, 2829-2837		3
841	ECTFE hybrid porous membrane with hierarchical micro/nano-structural surface for efficient oil/water separation. <i>Journal of Membrane Science</i> , <b>2017</b> , 524, 623-630	9.6	41
840	Fetoprotein Derived Short Peptide Coated Nanostructured Amphiphilic Surfaces for Targeting Mouse Breast Cancer Cells. <b>2017</b> , 16, 1650023		
839	Preparation of CuWO <sub>4</sub> @Cu <sub>2</sub> O film on copper mesh by anodization for oil/water separation and aqueous pollutant degradation. <b>2017</b> , 307, 803-811		86
838	Fabrication and applications of two- and three-dimensional curved surfaces with robust underwater superoleophobic properties. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 1123-1136	4.3	15
837	Fabrication of highly underwater oleophobic textiles through poly(vinyl alcohol) crosslinking for oil/water separation: the effect of surface wettability and textile type. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 1194-1202	4.3	17
836	Covalent tethering of photo-responsive superficial layers on hydrogel surfaces for photo-controlled release. <b>2017</b> , 8, 2010-2016		29
835	Preparation of PVDF-HFP@FAS electrospun fibrous film with special wettability and the research of its oil-water separation performance. <b>2017</b> , 182, 218-227		5
834	Applications of Biomimetic and Bioinspired Membranes. <b>2017</b> ,		1



833	Molecular Dynamics Study on the Effect of Surface Hydroxyl Groups on Three-Phase Wettability in Oil-Water-Graphite Systems. <b>2017</b> , 9,		21
832	Bio-Inspired Polymeric Structures with Special Wettability and Their Applications: An Overview. <b>2017</b> , 9,		24
831	Fabrication of Biomimetic and Bioinspired Membranes. <b>2017</b> ,		2
830	Superlyophobic anti-corrosive and self-cleaning titania robust mesh membrane with enhanced oil/water separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 201, 193-204	8.3	143
829	Facile fabrication of superhydrophilic and underwater superoleophobic chitosan/polyvinyl alcohol-TiO <sub>2</sub> coated copper mesh for efficient oil/water separation. <b>2018</b> , 15, 1013-1023		12
828	Flexible, Durable, and Unconditioned Superoleophobic/Superhydrophilic Surfaces for Controllable Transport and Oil/Water Separation. <b>2018</b> , 28, 1706867		149
827	The influences of special wetting surfaces on the dynamic behaviors of underwater oil droplet. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 543, 15-27	5.1	17
826	Polyolefin-based interpenetrating polymer network absorbent for crude oil entrapment and recovery in aqueous system. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 351, 285-292	12.8	21
825	Dual Superlyophobic Copper Foam with Good Durability and Recyclability for High Flux, High Efficiency, and Continuous Oil-Water Separation. <b>2018</b> , 10, 9841-9848		72
824	Metallic nanoparticles roughened Calotropis gigantea fiber enables efficient absorption of oils and organic solvents. <b>2018</b> , 115, 272-279		18
823	One-step solution immersion process for the fabrication of low adhesive underwater superoleophobic copper mesh film toward high-flux oil/water separation. <b>2018</b> , 448, 241-247		27
822	WITHDRAWN: Robust and self-healing hydrophobic association hydrogels using poly(styrene-co-acrylonitrile) macromolecule microspheres as cross-linking centers. <b>2018</b> ,		
821	Hydrophilic surface coating on hydrophobic PTFE membrane for robust anti-oil-fouling membrane distillation. <b>2018</b> , 450, 57-65		64
820	Manta ray gill inspired radially distributed nanofibrous membrane for efficient and continuous oil/water separation. <b>2018</b> , 5, 1466-1472		23
819	Biomimetic Multilayer Nanofibrous Membranes with Elaborated Superwettability for Effective Purification of Emulsified Oily Wastewater. <b>2018</b> , 10, 16183-16192		80
818	Solar-driven self-heating sponges for highly efficient crude oil spill remediation. <b>2018</b> , 6, 8880-8885		78
817	Wettability-switchable bacterial cellulose/polyhemiaminal nanofiber aerogels for continuous and effective oil/water separation. <b>2018</b> , 25, 2987-2996		14
816	Underwater wettability of oleic acid on TiO <sub>2</sub> photocatalyst surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 548, 32-36	5.1	3



815	Antifouling membranes for oily wastewater treatment: Interplay between wetting and membrane fouling. <b>2018</b> , 36, 90-109		152
814	Simple yet powerful nanofilters with tunable pore sizes and superhydrophilicity-underwater superoleophobicity for oil spill treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 541, 26-35	5.1	10
813	Green, Biodegradable, Underwater Superoleophobic Wood Sheet for Efficient Oil/Water Separation. <b>2018</b> , 3, 1395-1402		40
812	Seeded Mineralization Leads to Hierarchical CaCO <sub>3</sub> Thin Coatings on Fibers for Oil/Water Separation Applications. <b>2018</b> , 34, 2942-2951		22
811	Robust and Self-Healing Hydrophobic Association Hydrogels Using Poly(styrene-co-acrylonitrile) Macromolecule Microspheres as Cross-Linking Centers. <b>2018</b> , 3, 418-427		5
810	Intelligent environmental nanomaterials. <b>2018</b> , 5, 811-836		42
809	Robust and Mechanically and Electrically Self-Healing Hydrogel for Efficient Electromagnetic Interference Shielding. <b>2018</b> , 10, 8245-8257		85
808	Cell membrane mimetic PVDF microfiltration membrane with enhanced antifouling and separation performance for oil/water mixtures. <b>2018</b> , 6, 3231-3241		63
807	Underwater Mechanically Robust Oil-Repellent Materials: Combining Conflicting Properties Using a Heterostructure. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706634	24	46
806	Fouling-resistant membranes for separation of oil-in-water emulsions.. <b>2018</b> , 8, 5306-5311		9
805	A Review on Superhydrophobic Polymer Nanocoatings: Recent Development and Applications. <b>2018</b> , 57, 2727-2745		178
804	Surface Modification to Fabricate Superhydrophobic and Superoleophilic Alumina Membranes for Oil/Water Separation. <b>2018</b> , 32, 3627-3636		22
803	Biomimetic Superhydrophobic Materials Applied for Oil/Water Separation (I). <b>2018</b> , 229-247		
802	Opposite Superwetting Nickel Meshes for On-Demand and Continuous Oil/Water Separation. <b>2018</b> , 57, 1059-1070		44
801	3D-Printed Biomimetic Super-Hydrophobic Structure for Microdroplet Manipulation and Oil/Water Separation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704912	24	231
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799	Bioinspired Interfacial Materials: From Binary Cooperative Complementary Interfaces to Superwettability Systems. <b>2018</b> , 5, 1701176		25
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797	Porous micropillar structures for retaining low surface tension liquids. <b>2018</b> , 514, 316-327	15
796	Underoil superhydrophilic surfaces: water adsorption in metal-organic frameworks. <b>2018</b> , 6, 1692-1699	50
795	Reusable, salt-tolerant and superhydrophilic cellulose hydrogel-coated mesh for efficient gravity-driven oil/water separation. <b>2018</b> , 338, 271-277	97
794	Rational design of materials interface at nanoscale towards intelligent oil-water separation. <b>2018</b> , 3, 235-260	192
793	Biomimetic and Superwetable Nanofibrous Skins for Highly Efficient Separation of Oil-in-Water Emulsions. <b>2018</b> , 28, 1705051	381
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790	Dopamine: Just the Right Medicine for Membranes. <b>2018</b> , 28, 1705327	176
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787	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> , <b>2018</b> , 204, 116-126	8.3 34
786	Impact of carboxylation and hydrolysis functionalisations on the anti-oil staining behaviour of textiles grafted with poly(-isopropylacrylamide) hydrogel.. <b>2018</b> , 8, 13423-13432	8
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781	Electrochemical machining of superhydrophobic surfaces on mold steel substrates. <b>2018</b> , 344, 499-506	15
780	All-organic superhydrophobic coatings with mechanochemical robustness and liquid impalement resistance. <b>2018</b> , 17, 355-360	354

779	One-step assembly of Fe(III)-CMC chelate hydrogel onto nanoneedle-like CuO@Cu membrane with superhydrophilicity for oil-water separation. <b>2018</b> , 440, 560-569		42
778	Recent Progress in Super Hydrophobic/Hydrophilic Self-Cleaning Surfaces for Various Industrial Applications: A Review. <b>2018</b> , 57, 1932-1952		79
777	Heterogeneous wettable cotton based superhydrophobic Janus biofabric engineered with PLA/functionalized-organoclay microfibers for efficient oil/water separation. <b>2018</b> , 6, 7457-7479		128
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773	Facile fabrication of hydrogel coated membrane for controllable and selective oil-in-water emulsion separation. <b>2018</b> , 14, 2649-2654		20
772	A Review of Femtosecond-Laser-Induced Underwater Superoleophobic Surfaces. <b>2018</b> , 5, 1701370		68
771	Polydopamine nanocluster decorated electrospun nanofibrous membrane for separation of oil/water emulsions. <i>Journal of Membrane Science</i> , <b>2018</b> , 547, 156-162	9.6	108
770	Robust and elastic superhydrophobic breathable fibrous membrane with in situ grown hierarchical structures. <i>Journal of Membrane Science</i> , <b>2018</b> , 547, 93-98	9.6	35
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768	Gravity-directed separation of both immiscible and emulsified oil/water mixtures utilizing coconut shell layer. <b>2018</b> , 511, 233-242		21
767	A facile method to prepare dual-functional membrane for efficient oil removal and in situ reversible mercury ions adsorption from wastewater. <b>2018</b> , 434, 57-62		40
766	Composite membrane with electrospun multiscale-textured surface for robust oil-fouling resistance in membrane distillation. <i>Journal of Membrane Science</i> , <b>2018</b> , 546, 179-187	9.6	55
765	Continuous, high-flux and efficient oil/water separation assisted by an integrated system with opposite wettability. <b>2018</b> , 433, 374-380		54
764	Bilayer-type fluorescence hydrogels with intelligent response serve as temperature/pH driven soft actuators. <b>2018</b> , 255, 3117-3126		80
763	Mitigating oil spills in the water column. <b>2018</b> , 4, 40-47		31
762	Mechanically durable underwater superoleophobic surfaces based on hydrophilic bulk metals for oil/water separation. <b>2018</b> , 437, 400-409		19

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760	Preparation of DOPA-TA coated novel membrane for multifunctional water decontamination. <i>Separation and Purification Technology</i> , <b>2018</b> , 194, 135-140	8.3	24
759	Hydrophilicity-controlled MFI-type zeolite-coated mesh for oil/water separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 195, 163-169	8.3	41
758	Robust and underwater superoleophobic coating with excellent corrosion and biofouling resistance in harsh environments. <b>2018</b> , 436, 152-161		32
757	Superoleophilic and under-oil superhydrophobic organogel coatings for oil and water separation. <b>2018</b> , 115, 122-129		23
756	A novel dual-layer composite membrane with underwater-superoleophobic/hydrophobic asymmetric wettability for robust oil-fouling resistance in membrane distillation desalination. <b>2018</b> , 428, 240-249		53
755	Computational Intelligence-Assisted Understanding of Nature-Inspired Superhydrophobic Behavior. <b>2018</b> , 5, 1700520		16
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753	Nonswellable hydrogels with robust micro/nano-structures and durable superoleophobic surfaces under seawater. <b>2018</b> , 61, 64-70		18
752	Nano-cellulose hydrogel coated flexible titanate-bismuth oxide membrane for trinity synergistic treatment of super-intricate anion/cation/oily-water. <b>2018</b> , 337, 143-151		42
751	Initiated Chemical Vapor Deposition: A Versatile Tool for Various Device Applications. <b>2018</b> , 20, 1700622		54
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748	30 s Response Time of K Ion-Selective Hydrogels Functionalized with 18-Crown-6 Ether Based on QCM Sensor. <b>2018</b> , 7, 1700873		10
747	Constructing superhydrophobic WO <sub>3</sub> @TiO <sub>2</sub> nanoflake surface beyond amorphous alloy against electrochemical corrosion on iron steel. <b>2018</b> , 436, 527-535		30
746	Direct coating of a DKGM hydrogel on glass fabric for multifunctional oil-water separation in harsh environments. <b>2018</b> , 334, 2273-2282		50
745	A novel superhydrophilic/underwater superoleophobic Zn-ZnO electrodeposited copper mesh for efficient oil/water separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 193, 21-28	8.3	26
744	Fabrication of hydrophilic and oil-repellent surface via CF <sub>4</sub> plasma treatment. <b>2018</b> , 139, 293-297		12

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741	Removal of Organic Pollutants from Water Using Superwetting Materials. <b>2018</b> , 18, 118-136		42
740	New Developments in Membrane Technologies Used in the Treatment of Produced Water: A Review. <b>2018</b> , 43, 2093-2118		40
739	One-pot fabrication of robust hydrophobia and superoleophilic cotton fabrics for effective oil-water separation. <b>2018</b> , 15, 65-75		14
738	A review on environmental applications of chitosan biopolymeric hydrogel based composites. <b>2018</b> , 55, 747-763		18
737	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <b>2018</b> , 28, 1707415		146
736	Designing robust underwater superoleophobic microstructures on copper substrates. <b>2018</b> , 10, 20435-20442		9
735	Facile fabrication of zinc oxide coated superhydrophobic and superoleophilic meshes for efficient oil/water separation.. <b>2018</b> , 8, 35150-35156		15
734	Self-healing cellulose nanocrystal-stabilized droplets for water collection under oil. <b>2018</b> , 14, 9308-9311		9
733	Aloe vera mucilage derived highly tolerant underwater superoleophobic coatings. <b>2018</b> , 6, 22465-22471		9
732	Underwater superoleophobic polyurethane-coated mesh with excellent stability for oil/water separation.. <b>2018</b> , 8, 39657-39666		3
731	Review: Porous Metal Filters and Membranes for Oil-Water Separation. <b>2018</b> , 13, 284		50
730	High-Flux Oil/Water Separation with Interfacial Capillary Effect in Switchable Superwetting Cu(OH)@ZIF-8 Nanowire Membranes. <b>2018</b> , 10, 40265-40273		59
729	Facile Fabrication of Multi-Structured SiO <sub>2</sub> @PVDF-HFP Nanofibrous Membranes for Enhanced Copper Ions Adsorption. <b>2018</b> , 10,		10
728	Novel Polymer Material for Efficiently Removing Methylene Blue, Cu(II) and Emulsified Oil Droplets from Water Simultaneously. <b>2018</b> , 10,		10
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726	Specially Wetttable Membranes for Oil/Water Separation. <b>2018</b> , 5, 1800576		117

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724	Pillars or Pancakes? Self-Cleaning Surfaces without Coating. <b>2018</b> , 18, 7509-7514		12
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722	Stress-Driven Separation of Surfactant-Stabilized Emulsions and Gel Emulsions by Superhydrophobic/Superoleophilic Meshes. <b>2018</b> , 122, 24750-24759		8
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719	Preparation of high strength double physically cross-linked hydrogels by immersion methodHow to avoid uneven soaking. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 559, 74-82	5.1	8
718	Recent advances in layered double hydroxides (LDHs) as two-dimensional membrane materials for gas and liquid separations. <i>Journal of Membrane Science</i> , <b>2018</b> , 567, 89-103	9.6	67
717	Oil/water separation based on natural materials with super-wettability: recent advances. <b>2018</b> , 20, 25140-25168	0	
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714	Progressive fuzzy cation-assembly of biological catecholamines. <b>2018</b> , 4, eaat7457		125
713	Electrospun Janus Membrane for Efficient and Switchable Oil/Water Separation. <b>2018</b> , 303, 1800272		15
712	A bio-based environment-friendly membrane with facile preparation process for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 559, 18-22	5.1	13
711	Hydrophilic and hydrophobic materials and their applications. <b>2018</b> , 40, 2686-2725		52
710	Natural-Light-Initiated 3D Macro Zigzag Architecture of Graphene-Reinforced Polystyrene for Gravity-Driven Oil and Water Separation. <b>2018</b> , 2, 1800040		4
709	Bioinspired Designs of Superhydrophobic and Superhydrophilic Materials. <b>2018</b> , 4, 1102-1112		166
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703	Robust Superhydrophobic Polytetrafluoroethylene Nanofibrous Coating Fabricated by Self-Assembly and Its Application for Oil/Water Separation. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2632-2639	5.6	29
702	Dual superlyophobic surfaces with superhydrophobicity and underwater superoleophobicity. <b>2018</b> , 6, 11682-11687		42
701	Bioinspired Superwettability Electrospun Micro/Nanofibers and Their Applications. <b>2018</b> , 28, 1801114		139
700	A versatile porous 3D polyurethane/polyacrylic acid (PU-PAA) membrane for one-step multiple contaminants water purification. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 191-198	9.6	11
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698	Ag nanoparticles loading of polypyrrole-coated superwetting mesh for on-demand separation of oil-water mixtures and catalytic reduction of aromatic dyes. <b>2018</b> , 527, 187-194		23
697	Excellent oil-water separation under external pressure: Controllable critical pressure and separation efficiency by well-designed hierarchical mesh structure. <b>2018</b> , 456, 602-608		10
696	One-Step Dipping Fabrication of Fe <sub>3</sub> O <sub>4</sub> /PVDF-HFP Composite 3D Porous Sponge for Magnetically Controllable Oil/Water Separation. <b>2018</b> , 6, 10706-10713		37
695	Self-assembly and epitaxial growth of multifunctional micro-nano-spheres for effective separation of water-in-oil emulsions with ultra-high flux. <b>2018</b> , 352, 530-538		16
694	A Hydro-Kinematic approach for the design of compact corrugated plate interceptors for the de-oiling of produced water. <b>2018</b> , 130, 127-133		8
693	Spontaneous directional transportations of water droplets on surfaces driven by gradient structures. <b>2018</b> , 10, 13814-13831		58
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691	Three-dimensionally printed bioinspired superhydrophobic PLA membrane for oil-water separation. <b>2018</b> , 64, 3700-3708		38
690	Durable superoleophobic-superhydrophilic fabrics with high anti-oil-fouling property.. <b>2018</b> , 8, 26939-26947		14



689	Ultralong MnO <sub>2</sub> Nanowire Enhanced Multiwall Carbon Nanotube Hybrid Membrane with Underwater Superoleophobicity for Efficient Oil-in-Water Emulsions Separation. <b>2018</b> , 57, 10439-10447		46
688	Layer-by-Layer Construction of Cu <sup>2+</sup> /Alginate Multilayer Modified Ultrafiltration Membrane with Bioinspired Superwetting Property for High-Efficient Crude-Oil-in-Water Emulsion Separation. <b>2018</b> , 28, 1801944		164
687	An amphiphobic graphene-based hydrogel as oil-water separator and oil fence material. <b>2018</b> , 353, 708-716		36
686	Superhydrophobic Natural and Artificial Surfaces-A Structural Approach. <i>Materials</i> , <b>2018</b> , 11,	3.5	42
685	Cellulose nanocrystal coated cotton fabric with superhydrophobicity for efficient oil/water separation. <b>2018</b> , 199, 390-396		78
684	Synthesis of fish scale and lotus leaf mimicking, stretchable and durable multilayers. <b>2018</b> , 6, 15993-16002		26
683	Bioinspired one-step construction of hierarchical superhydrophobic surfaces for oil/water separation. <b>2018</b> , 531, 300-310		57
682	Polymeric materials with switchable superwettability for controllable oil/water separation: A comprehensive review. <b>2018</b> , 87, 1-33		131
681	Bio-Inspired Underwater Super Oil-Repellent Coatings for Anti-Oil Pollution. <b>2018</b> , 34, 6063-6069		15
680	Dopamine-induced biomimetic mineralization for in situ developing antifouling hybrid membrane. <i>Journal of Membrane Science</i> , <b>2018</b> , 560, 47-57	9.6	43
679	Self-Cleaning Piezoelectric Membrane for Oil-in-Water Separation. <b>2018</b> , 10, 18093-18103		25
678	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oil-Water Separation. <b>2018</b> , 10, 17301-17308		83
677	Cobweb-inspired DNA-based membranes for multicomponent pollutant-oil-water emulsions separation. <b>2018</b> , 348, 870-876		10
676	Boron substituted MFI-type zeolite-coated mesh for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 550, 108-114	5.1	14
675	Crude-Oil-Repellent Membranes by Atomic Layer Deposition: Oxide Interface Engineering. <b>2018</b> , 12, 8678-8685		99
674	Corrosive environments tolerant, ductile and self-healing hydrogel for highly efficient oil/water separation. <b>2018</b> , 354, 1185-1196		27
673	A glucose modified filter paper for effective oil/water separation.. <b>2018</b> , 8, 29570-29577		11
672	Construction of caterpillar-like cobalt-nickel hydroxide/carbon cloth hierarchical architecture with reversible wettability towards on-demand oil-water separation. <b>2018</b> , 462, 659-668		47



671	A carbon nanotube-embedded conjugated polymer mesh with controlled oil absorption and surface regeneration via in situ wettability switch. <b>2018</b> , 532, 790-797		6
670	Fabrication of self-cleaning superhydrophobic surface on stainless steel by nanosecond laser. <b>2018</b> , 5, 115002		8
669	Facile Fabrication of Superhydrophobic and Underwater Superoleophobic Coatings. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4894-4899	5.6	25
668	A comparative study about superamphiphobicity and stability of superamphiphobic coatings based on Palygorskite. <b>2018</b> , 165, 8-16		16
667	Zwitterionic Nanohydrogel Grafted PVDF Membranes with Comprehensive Antifouling Property and Superior Cycle Stability for Oil-in-Water Emulsion Separation. <b>2018</b> , 28, 1804121		237
666	Sequential liquid separation using meshes with hierarchical microcube/nanohole structure and controlled surface wettability. <b>2018</b> , 462, 237-242		8
665	In-situ generation of hydrated nanoparticles on commercial stainless steel mesh for durable superhydrophilicity and self-cleaning. <b>2018</b> , 157, 284-293		9
664	A study on fabrication of PVDF-HFP/PTFE blend membranes with controllable and bicontinuous structure for highly effective water-in-oil emulsion separation.. <b>2018</b> , 8, 27754-27762		16
663	Coordinated silicon elastomer coating@fabrics with oil/water separation capabilities, outstanding durability and ultra-fast room-temperature self-healing ability. <b>2018</b> , 6, 17156-17163		30
662	Coexistence of superhydrophilicity and superoleophobicity: theory, experiments and applications in oil/water separation. <b>2018</b> , 6, 15057-15063		59
661	Superhydrophilic and underwater superoleophobic Ti foam with fluorinated hierarchical flower-like TiO <sub>2</sub> nanostructures for effective oil-in-water emulsion separation. <b>2018</b> , 456, 114-123		31
660	Nanofiber-Based Hydrogels: Controllable Synthesis and Multifunctional Applications. <b>2018</b> , 39, e1800058		34
659	Robust Tunicate Cellulose Nanocrystal/Palygorskite Nanorod Membranes for Multifunctional Oil/Water Emulsion Separation. <b>2018</b> , 6, 10833-10840		49
658	Hydrophilic/Oleophilic Magnetic Janus Particles for the Rapid and Efficient Oil/Water Separation. <b>2018</b> , 28, 1802493		99
657	Fabrication of acrylamide decorated superhydrophilic and underwater superoleophobic poly(vinylidene fluoride) membranes for oil/water emulsion separation. <b>2019</b> , 95, 300-307		18
656	Electro-responsive carbon membranes with reversible superhydrophobicity/superhydrophilicity switch for efficient oil/water separation. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 891-899	8.3	53
655	Facile fabrication of superhydrophobic wood slice for effective water-in-oil emulsion separation. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 402-408	8.3	70
654	Lotus-Root-like Supermacroporous Cryogels with Superphilicity for Rapid Separation of Oil-in-Water Emulsions. <b>2019</b> , 1, 2273-2281		7

653	Expanded Graphite-Polyurethane Foams for Water-Oil Filtration. <b>2019</b> , 11, 30207-30217		20
652	Ultra-thin titanium carbide (MXene) sheet membranes for high-efficient oil/water emulsions separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 592, 117361	9.6	54
651	Facile fabrication of durable superhydrophobic mesh via candle soot for oil-water separation. <b>2019</b> , 136, 105253		23
650	Green Construction of an Oil-Water Separator at Room Temperature and Its Promotion to an Adsorption Membrane. <b>2019</b> , 35, 11071-11079		6
649	Buoyancy Assisted Janus Membrane Preparation by ZnO Interfacial Deposition for Water Pollution Treatment and Self-cleaning. <b>2019</b> , 6, 1901130		13
648	Novel insight into mechanism of secondary phase's morphology evolution in hypomonotectic Cu-Pb-Sn alloy during solidification. <b>2019</b> , 292, 111336		5
647	Underliquid Superlyophobic Copper-Coated Meshes for the Separation of Immiscible Organic Liquid Mixtures. <b>2019</b> , 11, 28370-28376		20
646	Potential of hydrophobic metal-organic framework-based materials for environmental applications. <b>2019</b> , 319-354		2
645	Ultrafast nano-structuring of superwetting Ti foam with robust antifouling and stability towards efficient oil-in-water emulsion separation. <b>2019</b> , 11, 17607-17614		67
644	Macroporous Silicone Sheets Integrated with Meshes for Various Applications. <b>2019</b> , 1, 2077-2082		1
643	Mechanically Robust Nanofibrous Xerogel Membrane for One-Pass Removal of Trace Water in Oil. <b>2019</b> , 304, 1900251		4
642	Durable, water-cleanable, superhydrophilic coatings for oil/water separation under harsh conditions. <b>2019</b> , 23, 1007-1015		6
641	Superhydrophilic, Underwater Directional Oil-Transport Fabrics with a Novel Oil Trapping Function. <b>2019</b> , 11, 27402-27409		10
640	Fast and efficient separation of oil/saltwater emulsions with anti-fouling ZnO microsphere/carbon nanotube membranes. <b>2019</b> , 32, 100901		5
639	Fabrication of superhydrophilic and underwater superoleophobic quartz sand filter for oil/water separation. <i>Separation and Purification Technology</i> , <b>2019</b> , 229, 115808	8.3	17
638	Recent Advances in Bioinspired Gel Surfaces with Superwettability and Special Adhesion. <b>2019</b> , 6, 1900996		29
637	Efficient Oil/Water Separation Membrane Derived from Super-Flexible and Superhydrophilic Core-Shell Organic/Inorganic Nanofibrous Architectures. <b>2019</b> , 11,		16
636	Stainless steel mesh supported TiO <sub>2</sub> nanowires membrane with ultra-high flux for separation of oil-in-water mixtures and emulsions. <b>2019</b> , 375, 518-526		14

635	Dual-scale TiO and SiO particles in combination with a fluoroalkylsilane and polydimethylsiloxane superhydrophobic/superoleophilic coating for efficient solvent-water separation.. <b>2019</b> , 9, 20332-20340		9
634	Complex membrane of cellulose and chitin nanocrystals with cationic guar gum for oil/water separation. <b>2019</b> , 136, 47947		14
633	Bioinspired functions. <b>2019</b> , 147-246		1
632	Multiple air-bubble enhanced oil rupture on nanostructured cellulose fabric for easy-oil cleaning fouled in a dry state. <b>2019</b> , 9, 14538		1
631	Phragmites Communis Leaves with Anisotropy, Superhydrophobicity and Self-Cleaning Effect and Biomimetic Polydimethylsiloxane (PDMS) Replicas. <b>2019</b> , 9, 541		4
630	Fabrication of palygorskite coated membrane for multifunctional oil-in-water emulsions separation. <b>2019</b> , 182, 105295		17
629	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <b>2019</b> , 98, 101166		127
628	Development of alginate hydrogel modified multifunctional filtration membrane with robust anti-fouling property for efficient water purification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 582, 123891	5.1	19
627	Opposite superwetting magnetic stainless-steel mesh for multiple types of oil/water separation. <b>2019</b> , 6, 105548		1
626	Switchable Wettability Materials for Controllable Oil/Water Separation. <b>2019</b> , 113-156		
625	Fabrication of compressible polyolefin monoliths and their applications. <b>2019</b> , 105, 166-170		2
624	Facile fabrication of an elastics maleic anhydride-grafted polypropylene monolith for oil/water separation. <b>2019</b> , 21, 100654		3
623	Interface-Initiated Polymerization Enables One-Pot Synthesis of Hydrophilic and Oleophobic Foams through Emulsion Templating. <b>2019</b> , 40, e1900288		14
622	The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water nanoemulsion separation. <b>2019</b> , 32, 100959		11
621	Fabrication of repairable superhydrophobic surface and improved anticorrosion performance based on zinc-rich coating. <b>2019</b> , 137, 105335		7
620	Electrospun polyvinylidene fluoride-based fibrous nanocomposite membranes reinforced by cellulose nanocrystals for efficient separation of water-in-oil emulsions. <i>Journal of Membrane Science</i> , <b>2019</b> , 575, 71-79	9.6	41
619	Ampholytic Chitosan/Alginate Composite Nanofibrous Membranes with Super Anti-Crude Oil-Fouling Behavior and Multifunctional Oil/Water Separation Properties. <b>2019</b> , 7, 15463-15470		22
618	Hierarchically Stabilized PAN/FeOOH Nanofibrous Membrane for Efficient Water Purification with Excellent Antifouling Performance and Robust Solvent Resistance. <b>2019</b> , 11, 34487-34496		44

617	Relation between oil-water interfacial flow structure and their separation in the oil-water mixture flow in a curved channel: An experimental study. <b>2019</b> , 120, 103089	4
616	Graphene oxide coated meshes with stable underwater superoleophobicity and anti-oil-fouling property for highly efficient oil/water separation. <b>2019</b> , 696, 133777	20
615	A superhydrophobic poly(lactic acid) electrospun nanofibrous membrane surface-functionalized with TiO <sub>2</sub> nanoparticles and methyltrichlorosilane for oil/water separation and dye adsorption. <b>2019</b> , 43, 15823-15831	19
614	Ultrahigh-flux (>190,000 L/mh) separation of oil and water by a robust and durable Cu(OH) nanoneedles mesh with inverse wettability. <b>2019</b> , 555, 569-582	10
613	Ultraviolet-driven switchable superliquiphobic/superliquiphilic coating for separation of oil-water mixtures and emulsions and water purification. <b>2019</b> , 557, 395-407	26
612	Removal of Oil from a Crude Oil-in-Water Emulsion by a Magnetically Recyclable Diatomite Demulsifier. <b>2019</b> , 33, 11574-11583	9
611	Design and fabrication of a highly efficient, stable and durable new wettability coated stainless steel mesh for oil/water separation. <b>2019</b> , 256, 126627	6
610	Environmentally benign development of superhydrophilic and underwater superoleophobic mesh for effective oil/water separation. <b>2019</b> , 377, 124892	11
609	Remote-Controlled Magnetic Sponge Balls and Threads for Oil/Water Separation in a Confined Space and Anaerobic Reactions. <b>2019</b> , 11, 40886-40897	12
608	Superhydrophilic fluorinated polyarylate membranes photocopolymerization and microphase separation for efficient separation of oil-in-water emulsion.. <b>2019</b> , 9, 958-962	5
607	Design and fabrication of superwetting fiber-based membranes for oil/water separation applications. <b>2019</b> , 364, 292-309	174
606	Protein-Functionalized Aerogel Membranes for Gravity-Driven Separation. <b>2019</b> , 7, 4814-4820	8
605	A facile fabrication of chitosan modified PPS-based microfiber membrane for effective antibacterial activity and oil-in-water emulsion separation. <b>2019</b> , 26, 2599-2611	25
604	Bioinspired Superhydrophobic NiTi Archwires with Resistance to Bacterial Adhesion and Nickel Ion Release. <b>2019</b> , 6, 1801569	11
603	Superhydrophobic and superoleophilic carbon nanofiber grafted polyurethane for oil-water separation. <b>2019</b> , 123, 327-334	38
602	Mussel-inspired Ag nanoparticles anchored sponge for oil/water separation and contaminants catalytic reduction. <i>Separation and Purification Technology</i> , <b>2019</b> , 225, 18-23	8,3 10
601	Separation of water-oil mixture on poly methyl methacrylate surface using TiO <sub>2</sub> nanoparticles via molecular dynamics simulation. <b>2019</b> , 25, 1019-1031	2
600	3D-printed ceramic structures with in situ grown whiskers for effective oil/water separation. <b>2019</b> , 373, 1223-1232	29

599	Amino-functionalized mesoporous PVA/SiO <sub>2</sub> hybrids coated membrane for simultaneous removal of oils and water-soluble contaminants from emulsion. <b>2019</b> , 374, 1394-1402		35
598	Coating Architects: Manipulating Multiscale Structures To Optimize Interfacial Properties for Coating Applications. <b>2019</b> , 1, 2249-2266		11
597	Advances in the application of biomimetic surface engineering in the oil and gas industry. <b>2019</b> , 7, 289-306		15
596	Bioinspired nonswellable ultrastrong nanocomposite hydrogels with long-term underwater superoleophobic behavior. <b>2019</b> , 375, 122047		15
595	A green strategy for preparing durable underwater superoleophobic calcium alginate hydrogel coated-meshes for oil/water separation. <b>2019</b> , 136, 13-19		22
594	Cost-effective one-pot surface modified method to engineer a green superhydrophobic sponge for efficient oil/water mixtures as well as emulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 576, 43-54	5.1	18
593	Egg Shell Powders-Coated Membrane for Surfactant-Stabilized Crude Oil-in-Water Emulsions Efficient Separation. <b>2019</b> , 7, 10880-10887		101
592	Low cost fabrication of polypropylene fiber composite membrane with excellent mechanical, superhydrophilic, antifouling and antibacterial properties for effective oil-in-water emulsion separation. <b>2019</b> , 142, 15-24		17
591	A self-assembling guar gum hydrogel for efficient oil/water separation in harsh environments. <i>Separation and Purification Technology</i> , <b>2019</b> , 225, 129-135	8.3	18
590	Sprayable and rapidly bondable phenolic-metal coating for versatile oil/water separation. <b>2019</b> , 13, 193-202		0
589	Easy preparation of superoleophobic membranes based on cellulose filter paper and their use for water/oil separation. <b>2019</b> , 26, 6813-6823		6
588	Bioinspired oil-water separation approaches for oil spill clean-up and water purification. <b>2019</b> , 377, 20190120		17
587	NIR-Triggered Photothermal Responsive Coatings with Remote and Localized Tunable Underwater Oil Adhesion. <b>2019</b> , 15, e1901888		14
586	Performance Analysis of Gravity-Driven Oil-Water Separation Using Membranes with Special Wettability. <b>2019</b> , 35, 7769-7782		21
585	One-Step Fabrication of Superhydrophobic/Superoleophilic Electrodeposited Polythiophene for Oil and Water Separation. <b>2019</b> , 304, 1800722		7
584	Nature-Inspired Liquid Infused Systems for Superwetable Surface Energies. <b>2019</b> , 11, 21275-21293		41
583	Facile preparation of loess-coated membranes for multifunctional surfactant-stabilized oil-in-water emulsion separation. <b>2019</b> , 21, 3190-3199		111
582	Taro leaf-inspired and superwetable nanonet-covered nanofibrous membranes for high-efficiency oil purification. <b>2019</b> , 4, 1174-1184		37

581	Hydrogel-coated basalt fibre with superhydrophilic and underwater superoleophobic performance for oil-water separation. <b>2019</b> , 14, 1-6		16
580	Superwetting Polymeric Three Dimensional (3D) Porous Materials for Oil/Water Separation: A Review. <b>2019</b> , 11,		56
579	Controlled Surface Wettability by Plasma Polymer Surface Modification. <b>2019</b> , 2, 349-371		46
578	A fully bio-based composite coating with mechanical robustness and dual superlyophobicity for efficient two-way oil/water separation. <b>2019</b> , 549, 123-132		13
577	High-Flux and Robust CoO Mesh for Efficient Oil/Water Separation in Harsh Environment. <b>2019</b> , 4, 7385-7390		13
576	A review of femtosecond laser-structured superhydrophobic or underwater superoleophobic porous surfaces/materials for efficient oil/water separation.. <b>2019</b> , 9, 12470-12495		58
575	HKUST-1 MOFs decorated 3D copper foam with superhydrophobicity/superoleophilicity for durable oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 573, 222-229 <sup>5.1</sup>		53
574	One-step synthesis of a steel-polymer wool for oil-water separation and absorption. <b>2019</b> , 2,		12
573	Waste cigarette filter as nanofibrous membranes for on-demand immiscible oil/water mixtures and emulsions separation. <b>2019</b> , 549, 114-122		38
572	Oil spills from global tankers: Status review and future governance. <b>2019</b> , 227, 20-32		92
571	3D Printing of an Oil/Water Mixture Separator with In Situ Demulsification and Separation. <b>2019</b> , 11,		8
570	Sustainable Biomimicked Oil/Water Wettability That Performs Under Severe Challenges. <b>2019</b> , 7, 11350-11359 <sup>11</sup>		
569	Fabrication of cellulose nanofiber-deposited cellulose sponge as an oil-water separation membrane. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 322-331	8.3	30
568	Recent Advances in Robust Superwetable Membranes for Oil/Water Separation. <b>2019</b> , 6, 1900126		56
567	Recent Advances in Femtosecond Laser-Induced Surface Structuring for Oil/Water Separation. <b>2019</b> , 9, 1554		23
566	One-Step Synthesis of Environmentally Friendly Superhydrophilic and Superhydrophobic Sponges for Oil/Water Separation. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
565	Unidirectional liquid transportation and selective permeation for oil/water separation on a gradient nanowire structured surface. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 246-253	9.6	7
564	Two-dimensional membrane and three-dimensional bulk aerogel materials via top-down wood nanotechnology for multibehavioral and reusable oil/water separation. <b>2019</b> , 371, 769-780		73

563	Successive four-phase liquid separation using hierarchical microcube-nanohole structure and controlled surface wettability meshes. <b>2019</b> , 9, 6503		6
562	UV-Driven Antifouling Paper Fiber Membranes for Efficient Oil/Water Separation. <b>2019</b> , 58, 5186-5194		28
561	Superwetable antibacterial textiles for versatile oil/water separation. <b>2019</b> , 16, 1900003		6
560	Surface modification of polyamide meshes and nonwoven fabrics by plasma etching and a PDA/cellulose coating for oil/water separation. <b>2019</b> , 481, 883-891		12
559	Bio-inspired underwater superoleophobic PVDF membranes for highly-efficient simultaneous removal of insoluble emulsified oils and soluble anionic dyes. <b>2019</b> , 369, 576-587		79
558	Simply realizing durable dual Janus superwetable membranes integrating underwater low-oil-adhesive with super-water-repellent surfaces for controlled oil/water permeation. <i>Journal of Membrane Science</i> , <b>2019</b> , 580, 248-255	9.6	18
557	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. <b>2019</b> , 11, 13787-13795		67
556	Photo-Fenton self-cleaning membranes with robust flux recovery for an efficient oil/water emulsion separation. <b>2019</b> , 7, 8491-8502		141
555	Fabrication of superhydrophobic electrospun polyimide nanofibers modified with polydopamine and polytetrafluoroethylene nanoparticles for oil/water separation. <b>2019</b> , 136, 47638		22
554	A rapid, facile and practical fabrication of robust PDMS@starch coatings for oil-water separation. <b>2019</b> , 99, 215-223		21
553	Bio-inspired and assembled fungal hyphae/carbon nanotubes aerogel for water-oil separation. <b>2019</b> , 30, 275601		7
552	Electrophoretic Deposition of Graphene Oxide on Laser-Ablated Copper Mesh for Enhanced Oil/Water Separation. <b>2019</b> , 9, 157		4
551	Swelling Poly(ionic liquid) Supported by Three-Dimensional Wire Mesh for Oil/Water Separation. <b>2019</b> , 11, 14347-14353		20
550	Robust superhydrophobic surface with excellent adhesive properties based on benzoxazine/epoxy/mesoporous SiO <sub>2</sub> . <b>2019</b> , 481, 374-378		49
549	Controllable preparation of multiple superantiwetting surfaces: From dual to quadruple superlyophobicity. <b>2019</b> , 369, 463-469		17
548	Nanoarchitected design of porous ZnO@copper membranes enabled by atomic-layer-deposition for oil/water separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 120-131	9.6	23
547	Bi-functional composite foam with hierarchical structure for efficient separation of emulsified mixtures consisting of oil and water. <b>2019</b> , 483, 1149-1157		7
546	Bioinspired superoleophobic/superhydrophilic functionalized cotton for efficient separation of immiscible oil-water mixtures and oil-water emulsions. <b>2019</b> , 548, 123-130		53



545	An intelligent dual mode filtration device for separation of immiscible oil/water mixtures and emulsions. <b>2019</b> , 484, 97-104	10
544	Ultra-high flux and efficient oil-water separation via polymer-based electrophoretic deposition. <b>2019</b> , 371, 575-582	15
543	Electrospun Fibrous PTFE Supported ZnO for Oil/Water Separation. <b>2019</b> , 29, 1738-1745	11
542	A Potential Amphiprotic Sponge with a Controlled Release Characteristic of Protons on Demand for Oil/Water Separation and Acid/Base Neutralization. <b>2019</b> , 6, 1900004	9
541	Characterization of microfibril development on PTFE surface during hot imprinting process and its application for oil/water separation. <b>2019</b> , 102, 1871-1883	4
540	Surface chemistry-dominated underwater superoleophobic mesh with mussel-inspired zwitterionic coatings for oil/water separation and self-cleaning. <b>2019</b> , 483, 399-408	24
539	Combinational Biomimicking of Lotus Leaf, Mussel, and Sandcastle Worm for Robust Superhydrophobic Surfaces with Biomedical Multifunctionality: Antithrombotic, Antibiofouling, and Tissue Closure Capabilities. <b>2019</b> , 11, 9777-9785	34
538	Conversion of solid $\text{Cu}_2(\text{OH})_2\text{CO}_3$ into HKUST-1 metal-organic frameworks: Toward an under-liquid superamphiphobic surface. <b>2019</b> , 363, 282-290	26
537	Stearic acid treated polypyrrole-encapsulated melamine formaldehyde superhydrophobic sponge for oil recovery. <b>2019</b> , 2, 70-82	43
536	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <b>2019</b> , 29, 1900162	64
535	High performance graphene-melamine sponge prepared via eco-friendly and cost-effective process. <b>2019</b> , 21, 1	1
534	An all superantwettable surface in water/oil systems. <b>2019</b> , 7, 6957-6962	12
533	Developing superhydrophobic rock wool for high-viscosity oil/water separation. <b>2019</b> , 368, 837-846	50
532	Separation Mechanism and Construction of Surfaces with Special Wettability for Oil/Water Separation. <b>2019</b> , 11, 11006-11027	237
531	Janus membranes with controllable asymmetric configurations for highly efficient separation of oil-in-water emulsions. <b>2019</b> , 7, 7907-7917	81
530	One-step plant-inspired reaction that transform membrane hydrophobicity into high hydrophilicity and underwater super oleophobicity for oil-in-water emulsion separation. <b>2019</b> , 479, 423-429	20
529	A durable mesh decorated with polydopamine/graphene oxide for highly efficient oil/water mixture separation. <b>2019</b> , 479, 351-359	38
528	Fabrication and Application of Superhydrophobic MultiStage Structure Separation Membranes. <b>2019</b> , 678, 012120	

527	Fabrication of Superhydrophobic Surface on Stainless Steel Meshes for Oil-Water Separation. <b>2019</b> , 612, 032136	1
526	UV LED Curing of Hydrogel-Modified Textiles with High Anti-Fouling Resistance. <b>2019</b> , 32, 699-704	1
525	Underwater Superoleophobic Crucian Fish Scale: Influence of Ontogeny on Surface Morphologies and Wettability. <b>2019</b> , 16, 1061-1067	3
524	pH-sensitive organic diimide materials-based superhydrophobic surface for oil-water separation applications. <b>2019</b> , 6, 125112	7
523	A liquid-based Janus porous membrane for convenient liquid-liquid extraction and immiscible oil/water separation. <b>2019</b> , 55, 14486-14489	20
522	Flexible, durable and magnetic nanofibrous membrane with pH-switchable wettability for efficient on-demand oil/water separation. <b>2019</b> , 6, 3699-3711	41
521	Efficient separation of immiscible oil/water mixtures using a perforated lotus leaf. <b>2019</b> , 21, 6579-6584	30
520	An ultrathin in situ silicification layer developed by an electrostatic attraction force strategy for ultrahigh-performance oil/water emulsion separation. <b>2019</b> , 7, 24569-24582	38
519	Robust, sustainable and multifunctional nanofibers with smart switchability for water-in-oil and oil-in-water emulsion separation and liquid marble preparation. <b>2019</b> , 7, 26456-26468	18
518	Cauliflower-like Nickel with Polar Ni(OH)/NiO F Shell To Decorate Copper Meshes for Efficient Oil/Water Separation. <b>2019</b> , 4, 20486-20492	10
517	Massively Engineering the Wettability of Titanium by Tuning Nanostructures and Roughness via Laser Ablation. <b>2019</b> , 123, 30382-30388	7
516	Superhydrophobic micro/nanostructured copper mesh with self-cleaning property for effective oil/water separation. <b>2019</b> , 32, 635-642	2
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514	Macroporous monoliths with pH-induced switchable wettability for recyclable oil separation and recovery. <b>2019</b> , 534, 183-194	25
513	Recent advances of bioinspired functional materials with specific wettability: from nature and beyond nature. <b>2019</b> , 4, 52-76	132
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510	Kraft Mesh Origami for Efficient Oil-Water Separation. <b>2019</b> , 35, 815-823	11

509	Amino-Functionalized Porous Nanofibrous Membranes for Simultaneous Removal of Oil and Heavy-Metal Ions from Wastewater. <b>2019</b> , 11, 1672-1679	55
508	A rubber-like, underwater superoleophobic hydrogel for efficient oil/water separation. <b>2019</b> , 361, 364-372	38
507	Natural cellulose microfiltration membranes for oil/water nanoemulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 564, 142-151	5.1 37
506	Investigating the Role of Glass and Quartz Substrates on the Formation of Interfacial Droplets. <b>2019</b> , 123, 1151-1159	9
505	Liquid mobility on superwetable surfaces for applications in energy and the environment. <b>2019</b> , 7, 38-63	117
504	Seawater-Induced Healable Underwater Superoleophobic Antifouling Coatings. <b>2019</b> , 11, 1353-1362	22
503	Multifunctional negatively-charged poly (ether sulfone) nanofibrous membrane for water remediation. <b>2019</b> , 538, 648-659	28
502	Chitosan-coated filter paper with superhydrophilicity for treatment of oily wastewater in acidic and alkaline environments. <b>2019</b> , 34, 213-223	11
501	Controllable wettability of laser treated aluminum mesh for on-demand oil/water separation. <b>2019</b> , 40, 1627-1636	4
500	SiAlON ceramic membranes modified with SiO <sub>2</sub> nanoparticles with high rejection rate in oil-water emulsion separation. <b>2019</b> , 45, 4237-4242	22
499	Facile preparation of diverse alumina surface structures by anodization and superhydrophobic surfaces with tunable water droplet adhesion. <b>2019</b> , 779, 219-228	15
498	Novel pH-Responsive Smart Fabric: From Switchable Wettability to Controllable On-Demand Oil/Water Separation. <b>2019</b> , 7, 368-376	44
497	Reversible transition between adhesive and antiadhesive performances by stretching/recovery on superhydrophobic TPU/CNTs composite membrane surface. <b>2019</b> , 471, 900-903	7
496	High-efficiency separation performance of oil-water emulsions of polyacrylonitrile nanofibrous membrane decorated with metal-organic frameworks. <b>2019</b> , 476, 61-69	71
495	Substrate-independent polyzwitterionic coating for oil/water separation membranes. <b>2019</b> , 362, 126-135	38
494	Underwater superoleophobic mesh with transformable micro-nano structure for ultrafast oil/water separation. <b>2019</b> , 358, 806-816	6
493	Robust Oil-Fouling Resistance of Amorphous Cellulose Surface Underwater: A Wetting Study and Application. <b>2019</b> , 35, 839-847	10
492	Electrospun Fibrous Membranes with Dual-Scaled Porous Structure: Super Hydrophobicity, Super Lipophilicity, Excellent Water Adhesion, and Anti-Icing for Highly Efficient Oil Adsorption/Separation. <b>2019</b> , 11, 5073-5083	74

491	One pot facile synthesis of carbonaceous gel via thiol-epoxy click reaction as potential electrode material for supercapacitor. <b>2019</b> , 248, 81-87		5
490	Bioinspired multifunctional polymer/nanoparticle/surfactant complex nanocomposite surfaces for antibacterial oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 560, 352-359	5.1	15
489	Pyrolyzing preceramic polymer into ceramic reverses the wettability of the extreme wetting surface and enhances mechanical abrasion resistance. <b>2019</b> , 45, 2053-2059		1
488	Facile and scalable fabrication of superhydrophobic and superoleophilic PDMS-co-PMHS coating on porous substrates for highly effective oil/water separation. <b>2019</b> , 358, 1101-1113		70
487	Bioinspired Hairy Crab Claw Polymer Surface with Excellent Self-Cleaning Wettability in Muddy or Oil-Contaminated Water.. <b>2019</b> , 2, 424-429		1
486	Underwater superoleophobic and underoil superhydrophobic surface made by liquid-exfoliated MoS <sub>2</sub> for on-demand oil-water separation. <b>2019</b> , 361, 322-328		29
485	Hydrophobic and oleophilic carbon nanofiber impregnated styrofoam for oil and water separation: A green technology. <b>2019</b> , 360, 1613-1622		26
484	Bioinspired membranes for multi-phase liquid and molecule separation. <b>2019</b> , 62, 14-23		15
483	Polyamide 6.6 separates oil/water due to its dual underwater oleophobicity/underoil hydrophobicity: Role of 2D and 3D porous structures. <b>2019</b> , 466, 282-288		7
482	Fabrication of superhydrophobic cotton fabrics by grafting of POSS-based polymers on fibers. <b>2019</b> , 465, 241-248		65
481	Amphibious superamphiphilic fabrics with self-healing underwater superoleophilicity. <b>2019</b> , 6, 122-129		30
480	Superhydrophobic brass and bronze meshes based on electrochemical and chemical self-assembly of stearate. <b>2019</b> , 465, 116-124		28
479	Robust construction of underwater superoleophobic CNTs/nanoparticles multifunctional hybrid membranes via interception effect for oily wastewater purification. <i>Journal of Membrane Science</i> , <b>2019</b> , 569, 32-40	9.6	51
478	Wettability of rock, oil and brine system based on density functional theory. <b>2019</b> , 479, 99-105		0
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476	Electrospun polyimide nanofibrous membranes for absorption of oil spills. <b>2020</b> , 50, 584-595		4
475	Underwater superoleophobic APTES-SiO <sub>2</sub> /PVA organohydrogel for low-temperature tolerant, self-healing, recoverable oil/water separation mesh. <b>2020</b> , 382, 122925		40
474	A novel high-durability oxidized poly (arylene sulfide sulfone) electrospun nanofibrous membrane for direct water-oil separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 234, 116012	8.3	17

473	Study on oil-water separation of selective-wettability meshes with different Micro/Nano structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 584, 124026	5.1	4
472	Efficient separation of free organic liquid mixtures based on underliquid superlyophobic coconut shell coated meshes. <i>Separation and Purification Technology</i> , <b>2020</b> , 231, 115899	8.3	50
471	Electric-tunable wettability on a paraffin-infused slippery pattern surface. <b>2020</b> , 381, 122612		23
470	Copper hydroxyphosphate nanosheets-covered robust membranes with superhydrophilicity and underwater ultralow adhesive superoleophobicity for oil/water separation and visible light photodegradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 584, 124000	5.1	16
469	A low cost paper tissue-based PDMS/SiO <sub>2</sub> composite for both high efficient oil absorption and water-in-oil emulsion separation. <b>2020</b> , 244, 118814		17
468	Nature-inspired chemistry toward hierarchical superhydrophobic, antibacterial and biocompatible nanofibrous membranes for effective UV-shielding, self-cleaning and oil-water separation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121476	12.8	159
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466	Green fabrication of superhydrophilic and underwater superoleophobic coatings with applications in oil-water separation, photocatalysis and fire-retardance. <i>Separation and Purification Technology</i> , <b>2020</b> , 233, 115988	8.3	21
465	Nanocomposite hydrogels based on carbon dots and polymers. <b>2020</b> , 31, 1443-1447		27
464	Surface segregation of segmented amphiphilic copolymer of poly(dimethylsiloxane) and poly(ethylene glycol) on poly(vinylidene fluoride) blend membrane for oil/water emulsion separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 232, 115940	8.3	23
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451	Porous clusters of metal-organic framework coated stainless steel mesh for highly efficient oil/water separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 238, 116454	8.3	17
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446	Facile preparation of superwetting surfaces by dip-coating of silane for efficient separation of different types of oils from water. <b>2020</b> , 134, 226-238		8
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407	Biodegradable all-cellulose composite membranes for simultaneous oil/water separation and dye removal from water. <b>2020</b> , 250, 116872		36
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171	Solvent-Free Fabrication of Robust Superhydrophobic Powder Coatings. <b>2021</b> , 13, 1323-1332		12
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169	CHAPTER 3:Superwetting Nanomaterials for Advanced Oil/Water Separation: From Absorbing Nanomaterials to Separation Membranes. <b>2016</b> , 51-90		3
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156	Chapter 16:Superwettability of Polymer Surfaces. <b>2016</b> , 523-554	
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150	Bioinspired Oil-Water Separation and Water Purification Approaches Using Superliquiphobic/philic Porous Surfaces and External Stimuli. <b>2020</b> , 181-224	

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120	Bioinspired Superhydrophobic/Superhydrophilic Janus Copper Foam for On-Demand Oil/Water Separation.. <b>2022</b> ,		4
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98	Hierarchical metal-phenolic-polyplex assembly toward superwetting membrane for high-flux and antifouling oil-water separation. <b>2021</b> ,		3
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94	A microgel-structured cellulose nanofibril coating with robust antifouling performance for highly efficient oil/water and immiscible organic solvent separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128875	5.1	0
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88	Video_5.AVI. <b>2020</b> ,		
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86	Facile Fabrication of 2d Mof-Based Membrane with Hierarchical Structures for Ultrafast Oil-Water Separation. <i>SSRN Electronic Journal</i> ,	1	
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81	Multipurpose of Zwitterionic Poly(imidazolium)-Based Hydrogel Coating for Oil/Water Separation with Long-Term Antibiofouling Property. <i>Separation and Purification Technology</i> , <b>2022</b> , 121353	8.3	0
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75	Role of chemistry in bio-inspired liquid wettability.	6	
74	Separate Reclamation of Oil and Surfactant from Oil-in-Water Emulsion with a CO <sub>2</sub> -Responsive Material.		o
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67	Sustainable, Biocompatible, and Mass-Producible Superwetting Water Caltrop Shell Biochars for Emulsion Separations. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 129567	12.8	
66	Electrospun Modified SiO <sub>2</sub> Nanofiber Membranes as Superamphiphobic Self-Cleaning Filters with High Heat Stability for Efficient Particle Matter Capture. <i>ACS Applied Nano Materials</i> ,	5.6	
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