

Membrane technology enhancement in oil&“water sep

Desalination

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Citation Report

#	ARTICLE	IF	CITATIONS
1	PVDF MEMBRANE FOR OIL-IN-WATER SEPARATION VIA CROSS-FLOW ULTRAFILTRATION PROCESS. Jurnal Teknologi (Sciences and Engineering), 2015, 78, .	0.3	0
2	Carbon nanotube-nanoporous anodic alumina composite membranes with controllable inner diameters and surface chemistry: Influence on molecular transport and chemical selectivity. Carbon, 2015, 93, 681-692.	5.4	31
3	Novel hybrid photocatalytic reactor-UF nanocomposite membrane system for bilge water degradation and separation. RSC Advances, 2015, 5, 45331-45340.	1.7	16
4	Simultaneously covalent and ionic bridging towards antifouling of GO-imbedded nanocomposite hollow fiber membranes. Journal of Materials Chemistry A, 2015, 3, 10573-10584.	5.2	84
5	A novel super-hydrophilic PSf/HAO nanocomposite ultrafiltration membrane for efficient separation of oil/water emulsion. Separation and Purification Technology, 2015, 150, 13-20.	3.9	74
6	Effect of functionalized multi-walled carbon nanotubes on the microstructure and performances of PVDF membranes. RSC Advances, 2015, 5, 75998-76006.	1.7	25
7	Effect of HNTs modification in nanocomposite membrane enhancement for bacterial removal by cross-flow ultrafiltration system. Reactive and Functional Polymers, 2015, 95, 80-87.	2.0	40
8	Nonequilibrium Dissolution-diffusion Model for PDMS Membrane Pervaporation of ABE Water Binary System. Journal of Membrane Science & Technology, 2016, 06, .	0.5	6
9	3D Printing as Feasible Platform for On-site Building Oil-Skimmer for Oil Collection from Spills. Advanced Materials Interfaces, 2016, 3, 1600015.	1.9	33
10	Preparation and characterization of the tolerance to acid/alkaline and anti-oil-fouling of regenerated cellulose membranes for oil-water separation. RSC Advances, 2016, 6, 114750-114757.	1.7	6
11	A novel oil-water separator design and its performance prediction. Journal of Petroleum Science and Engineering, 2016, 145, 83-94.	2.1	15
12	Distillation technology and need of simultaneous design and control: A review. Chemical Engineering and Processing: Process Intensification, 2016, 104, 219-242.	1.8	29
13	Efficient recovery of ultrafine catalysts from oil/water/solid three-phase system by ceramic microfiltration membrane. Korean Journal of Chemical Engineering, 2016, 33, 2453-2459.	1.2	2
14	Preparation and applications of microfiltration carbon membranes for the purification of oily wastewater. Separation Science and Technology, 2016, 51, 1872-1880.	1.3	25
15	Ceramic membrane filtration of produced water: Impact of membrane module. Separation and Purification Technology, 2016, 165, 214-221.	3.9	73
16	A facile approach to silica-modified polysulfone microfiltration membranes for oil-in-water emulsion separation. RSC Advances, 2016, 6, 41323-41330.	1.7	11
18	Preparation of a novel modified ceramic membrane for removal of nickel ions from aqueous phase. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 81-87.	0.8	5
19	pH-Induced switches of the oil- and water-selectivity of crosslinked polymeric membranes for gravity-driven oil-water separation. Journal of Materials Chemistry A, 2016, 4, 13543-13548.	5.2	78

#	ARTICLE	IF	CITATIONS
20	Applications of Nanomaterial-Polymer Membranes for Oil and Gas Separation. , 2016, , 251-265.		4
21	Emerging trends in photodegradation of petrochemical wastes: a review. Environmental Science and Pollution Research, 2016, 23, 22340-22364.	2.7	47
22	Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. Journal of Materials Chemistry A, 2016, 4, 15749-15770.	5.2	168
23	Fly ash based ceramic microfiltration membranes for oil-water emulsion treatment: Parametric optimization using response surface methodology. Journal of Water Process Engineering, 2016, 13, 27-43.	2.6	73
24	The design of coal-based carbon membrane coupled with the electric field and its application on the treatment of malachite green (MG) aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 629-636.	2.3	31
25	Oil removal from waterâ€™oil emulsions using magnetic nanocomposite fibrous mats. RSC Advances, 2016, 6, 71100-71107.	1.7	26
26	Fabrication and characterization of novel polyvinylidene fluoride ultrafiltration membranes for separation of Cr(VI) from wastewater. Adsorption Science and Technology, 2016, 34, 526-537.	1.5	2
27	Polyvinylidene fluoride (PVDF) membrane for oil rejection from oily wastewater: A performance review. Journal of Water Process Engineering, 2016, 14, 41-59.	2.6	106
28	Active learning assisted strategy of constructing hybrid models in repetitive operations of membrane filtration processes: Using case of mixture of bentonite clay and sodium alginate. Journal of Membrane Science, 2016, 515, 245-257.	4.1	10
29	A Novel Oil-Water Separator Design Based on the Combination of Two Flow Resistance Mechanisms. , 2016, , .		1
30	Reverse membrane bioreactor: Introduction to a new technology for biofuel production. Biotechnology Advances, 2016, 34, 954-975.	6.0	40
31	Treatment of oil-in-water emulsion using tubular ceramic membrane acquired from locally available low-cost inorganic precursors. Desalination and Water Treatment, 2016, 57, 28056-28070.	1.0	16
32	Use of membrane technology for oil field and refinery produced water treatmentâ€™A review. Chemical Engineering Research and Design, 2016, 100, 183-202.	2.7	301
33	Surface zwitterionization of poly(vinylidene fluoride) membranes from the entrapped reactive coreâ€™shell silica nanoparticles. Journal of Colloid and Interface Science, 2016, 468, 110-119.	5.0	44
34	Photoreactor-ultrafiltration hybrid system for oily bilge water photooxidation and separation from oil tanker. Reactive and Functional Polymers, 2016, 101, 28-38.	2.0	13
35	Novel green hybrid processes for oily water photooxidation and purification from merchant ship. Desalination, 2016, 391, 98-104.	4.0	18
36	Preparation and characterization of Î³-alumina ceramic ultrafiltration membranes for pretreatment of oily wastewater. Desalination and Water Treatment, 2016, 57, 24322-24332.	1.0	36
37	Cellulose nanofibre aerogel filter with tuneable pore structure for oil/water separation and recovery. RSC Advances, 2016, 6, 21435-21438.	1.7	62

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38	Preparation of a Novel Poly(vinylidene fluoride) Ultrafiltration Membrane by Incorporation of 3-Aminopropyltriethoxysilane-Grafted Halloysite Nanotubes for Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1760-1767.	1.8	58
39	A low-cost mullite-titania composite ceramic hollow fiber microfiltration membrane for highly efficient separation of oil-in-water emulsion. <i>Water Research</i> , 2016, 90, 277-285.	5.3	241
40	Robust Thermoresponsive Polymer Composite Membrane with Switchable Superhydrophilicity and Superhydrophobicity for Efficient Oil/Water Separation. <i>Environmental Science & Technology</i> , 2016, 50, 906-914.	4.6	200
41	Treatment of model oily produced water by combined pre-ozonation microfiltration process. <i>Desalination and Water Treatment</i> , 2016, 57, 23225-23231.	1.0	3
42	Computational Fluid Dynamic (CFD) opportunities applied to the membrane distillation process: State-of-the-art and perspectives. <i>Desalination</i> , 2016, 377, 73-90.	4.0	116
43	Quantitative analysis of MWCNT agglomeration in polymeric based membranes using atomic force microscope. <i>Surface and Interface Analysis</i> , 2017, 49, 55-62.	0.8	10
44	Surface modification of polyacrylonitrile ultrafiltration membranes using amphiphilic Pluronic F127/CaCO ₃ nanoparticles for oil/water emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 147-160.	2.3	67
45	An anti-fouling poly(vinylidene fluoride) hybrid membrane blended with functionalized ZrO ₂ nanoparticles for efficient oil/water separation. <i>RSC Advances</i> , 2017, 7, 5262-5271.	1.7	44
46	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , 2017, 29, 1605307.	11.1	155
47	Regenerable Polyelectrolyte Membrane for Ultimate Fouling Control in Forward Osmosis. <i>Environmental Science & Technology</i> , 2017, 51, 3242-3249.	4.6	20
48	Effect of cross-flow velocity, oil concentration and salinity on the critical flux of an oil-in-water emulsion in microfiltration. <i>Journal of Membrane Science</i> , 2017, 530, 11-19.	4.1	72
49	Removal of Heavy Metals from Industrial Wastewaters: A Review. <i>ChemBioEng Reviews</i> , 2017, 4, 37-59.	2.6	739
50	Thiolated graphene-based superhydrophobic sponges for oil-water separation. <i>Chemical Engineering Journal</i> , 2017, 316, 736-743.	6.6	267
51	Surfactant-stabilized oil separation from water using ultrafiltration and nanofiltration. <i>Journal of Membrane Science</i> , 2017, 529, 159-169.	4.1	117
52	Superhydrophilic In-Situ-Cross-Linked Zwitterionic Polyelectrolyte/PVDF-Blend Membrane for Highly Efficient Oil/Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9603-9613.	4.0	238
53	Recent developments of carbon based nanomaterials and membranes for oily wastewater treatment. <i>RSC Advances</i> , 2017, 7, 20981-20994.	1.7	109
54	Electrospun Nanofibrous Membranes for Water Purification. <i>Polymer Reviews</i> , 2017, 57, 467-504.	5.3	137
55	Novel clay-based nanofibrous membranes for effective oil/water emulsion separation. <i>Ceramics International</i> , 2017, 43, 9465-9471.	2.3	41

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56	A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. Separation and Purification Technology, 2017, 184, 72-78.	3.9	80
57	Electrospun nanofibrous membrane of porous fluorine-containing triptycene-based polyimides for oil/water separation. RSC Advances, 2017, 7, 22548-22552.	1.7	24
58	Oil and Gas Produced Water Management: A Review of Treatment Technologies, Challenges, and Opportunities. Chemical Engineering Communications, 2017, 204, 990-1005.	1.5	80
59	Directional Fluid Gating by Janus Membranes with Heterogeneous Wetting Properties for Selective Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 19102-19113.	4.0	112
60	Formation of phosphorylated Zr x Si 1âˆ™x O 2 /Al 2 O 3 self-assembled membrane for cleaning oily seawater. Journal of Membrane Science, 2017, 536, 28-36.	4.1	10
61	Intrinsically superhydrophobic PVDF membrane by phase inversion for membrane distillation. Desalination, 2017, 417, 77-86.	4.0	142
62	The application of ultrafiltration for treatment of ships generated oily wastewater. Chemical Papers, 2017, 71, 1165-1173.	1.0	15
63	Hybrid model based expected improvement control for cyclical operation of membrane microfiltration processes. Chemical Engineering Science, 2017, 166, 77-90.	1.9	1
64	Antifouling hydrolyzed polyacrylonitrile/graphene oxide membrane with spindle-knotted structure for highly effective separation of oil-water emulsion. Journal of Membrane Science, 2017, 532, 38-46.	4.1	170
65	Thermo-responsive PVDF/PSMA composite membranes with micro/nanoscale hierarchical structures for oil/water emulsion separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 305-316.	2.3	39
66	Integrated Ultrafiltration Membrane Unit for Efficient Petroleum Refinery Effluent Treatment. Clean - Soil, Air, Water, 2017, 45, 1600342.	0.7	11
67	Superhydrophilic Functionalization of Microfiltration Ceramic Membranes Enables Separation of Hydrocarbons from Frac and Produced Water. Scientific Reports, 2017, 7, 12267.	1.6	25
68	Influence of module orientation and geometry in the membrane distillation of oily seawater. Desalination, 2017, 423, 111-123.	4.0	20
69	Underwater Superoleophobic Wood Cross Sections for Efficient Oil/Water Separation. Advanced Materials Interfaces, 2017, 4, 1700584.	1.9	61
70	Facile Fabrication and Application of Superhydrophilic Stainless Steel Hollow Fiber Microfiltration Membranes. ACS Sustainable Chemistry and Engineering, 2017, 5, 10283-10289.	3.2	14
71	Oily Wastewater Treatment by Nano-TiO₂-Induced Photocatalysis: Seeking more efficient and feasible solutions. IEEE Nanotechnology Magazine, 2017, 11, 4-15.	0.9	22
72	Tailoring Membrane Surface Properties and Ultrafiltration Performances via the Self-Assembly of Polyethylene Glycol- <i>block</i> -Polysulfone- <i>block</i> -Polyethylene Glycol Block Copolymer upon Thermal and Solvent Annealing. ACS Applied Materials & Interfaces, 2017, 9, 31018-31030.	4.0	57
73	A windable and stretchable three-dimensional all-inorganic membrane for efficient oil/water separation. Scientific Reports, 2017, 7, 16081.	1.6	18

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74	Oil removing properties of exfoliated graphite in actual produced water treatment. <i>Journal of Water Process Engineering</i> , 2017, 20, 226-231.	2.6	22
75	Performance evaluation of double stage process using nano hybrid PES/SiO ₂ -PES membrane and PES/ZnO-PES membranes for oily waste water treatment to clean water. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6077-6086.	3.3	65
76	Electro-blown spun PS/PAN fibrous membrane for highly efficient oil/water separation. <i>Fibers and Polymers</i> , 2017, 18, 1988-1994.	1.1	18
77	Microscale Dynamics of Oil Droplets at a Membrane Surface: Deformation, Reversibility, and Implications for Fouling. <i>Environmental Science & Technology</i> , 2017, 51, 13842-13849.	4.6	27
78	The preparation, properties and applications of electrospun co-polyamide 6,12 membranes modified by cellulose nanocrystals. <i>Materials and Design</i> , 2017, 132, 314-323.	3.3	35
79	Silane surface modified ceramic membranes for the treatment and recycling of SAGD produced water. <i>Journal of Petroleum Science and Engineering</i> , 2017, 157, 349-358.	2.1	31
80	In situ one-step fabrication of durable superhydrophobic-superoleophilic cellulose/LDH membrane with hierarchical structure for efficiency oil/water separation. <i>Chemical Engineering Journal</i> , 2017, 328, 117-123.	6.6	173
81	Characterization of fouling processes in ceramic membranes used for the recovery and recycle of oil sands produced water. <i>Journal of Membrane Science</i> , 2017, 540, 307-320.	4.1	16
82	Electrodialytic removal of fluoride and calcium ions to recover phosphate from fertilizer industry wastewater. <i>Sustainable Environment Research</i> , 2017, 27, 230-237.	2.1	48
83	Robust superhydrophobic-superoleophilic polytetrafluoroethylene nanofibrous membrane for oil/water separation. <i>Journal of Membrane Science</i> , 2017, 540, 354-361.	4.1	178
84	Emerging usage of electrocoagulation technology for oil removal from wastewater: A review. <i>Science of the Total Environment</i> , 2017, 579, 537-556.	3.9	309
85	“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
86	Morphological effect of ZnO nanoflakes and nanobars on the photocatalytic dye degradation. <i>Catalysis Today</i> , 2017, 287, 106-112.	2.2	24
87	Juncus Pith: A Versatile Material for Automatic and Continuous Separation of Various Oil-Water Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 922-928.	3.2	27
88	Graphene oxide/polyacrylonitrile fiber hierarchical-structured membrane for ultra-fast microfiltration of oil-water emulsion. <i>Chemical Engineering Journal</i> , 2017, 307, 643-649.	6.6	303
89	Dissolved Air Flotation with Saturation of Liquid in Spray-Type Saturator. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 262, 012222.	0.3	2
90	ENHANCED ANTI-FOULING BEHAVIOR AND PERFORMANCES OF NANO HYBRID PES-SIO ₂ AND PES-ZNO MEMBRANES FOR PRODUCED WATER TREATMENT. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2017, 79, .	0.3	6
91	2.5 Forward Osmosis and Forward Osmosis Membranes. , 2017, , 95-123.		7

#	ARTICLE	IF	CITATIONS
92	Ti Reactive Sintering of Electrically Conductive Al ₂ O ₃ -TiN Composite: Influence of Ti Particle Size and Morphology on Electrical and Mechanical Properties. <i>Materials</i> , 2017, 10, 1348.	1.3	6
93	Assessment of a New Silicon Carbide Tubular Honeycomb Membrane for Treatment of Olive Mill Wastewaters. <i>Membranes</i> , 2017, 7, 12.	1.4	31
94	Treatment of Oily Wastewater with Membrane Bioreactor Systems. <i>Water (Switzerland)</i> , 2017, 9, 412.	1.2	32
95	Fabrication and Water Treatment Application of Carbon Nanotubes (CNTs)-Based Composite Membranes: A Review. <i>Membranes</i> , 2017, 7, 16.	1.4	171
96	Oil Removal from Produced Water by Ultrafiltration using Polysulfone Membrane. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 583-596.	0.7	45
97	Efficiency of Polymeric Membrane Graphene Oxide-TiO ₂ for Removal of Azo Dye. <i>Journal of Chemistry</i> , 2017, 2017, 1-13.	0.9	33
98	The application of pressure-driven ceramic membrane technology for the treatment of industrial wastewaters – A review. <i>Separation and Purification Technology</i> , 2018, 200, 198-220.	3.9	233
99	Enhanced oil removal from water in oil stable emulsions using electrospun nanocomposite fiber mats. <i>RSC Advances</i> , 2018, 8, 7641-7650.	1.7	28
100	Improvement in antifouling and separation performance of PVDF hybrid membrane by incorporation of room-temperature ionic liquids grafted halloysite nanotubes for oil-water separation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46278.	1.3	14
101	Synthesis, characterization and performance evaluation of an optimized ceramic membrane with physical separation and photocatalytic degradation capabilities. <i>Ceramics International</i> , 2018, 44, 10281-10292.	2.3	23
102	On-demand oil-water separation via low-voltage wettability switching of core-shell structures on copper substrates. <i>Applied Surface Science</i> , 2018, 444, 15-27.	3.1	54
103	Underwater superoleophobic modified polysulfone electrospun membrane with efficient antifouling for ultrafast gravitational oil-water separation. <i>Separation and Purification Technology</i> , 2018, 200, 284-293.	3.9	51
104	Improved filtration performance and antifouling properties of polyethersulfone ultrafiltration membranes by blending with carboxylic acid functionalized polysulfone. <i>RSC Advances</i> , 2018, 8, 7774-7784.	1.7	41
105	Prediction of the filtrate particle size distribution from the pore size distribution in membrane filtration: Numerical correlations from computer simulations. <i>AIP Advances</i> , 2018, 8, .	0.6	6
106	Antifouling membranes for oily wastewater treatment: Interplay between wetting and membrane fouling. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 36, 90-109.	3.4	246
107	A mussel inspired highly stable graphene oxide membrane for efficient oil-in-water emulsions separation. <i>Separation and Purification Technology</i> , 2018, 199, 37-46.	3.9	61
108	Polymeric Nanocomposites (PNCs) for Wastewater Remediation: An Overview. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1801-1827.	1.9	24
109	Matrix effect in case of purification of oily waters by membrane separation combined with pre-ozonation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34976-34984.	2.7	8

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110	New porous monolithic membranes based on supported ionic liquid-like phases for oil/water separation and homogenous catalyst immobilisation. <i>Chemical Communications</i> , 2018, 54, 2385-2388.	2.2	11
111	Surface Modification to Fabricate Superhydrophobic and Superoleophilic Alumina Membranes for Oil/Water Separation. <i>Energy & Fuels</i> , 2018, 32, 3627-3636.	2.5	28
112	Treatment and reclamation of hydrocarbon-bearing oily wastewater as a hazardous pollutant by different processes and technologies: a state-of-the-art review. <i>Reviews in Chemical Engineering</i> , 2018, 35, 73-108.	2.3	70
113	Organic solvent-resistant and thermally stable polymeric microfiltration membranes based on crosslinked polybenzoxazine for size-selective particle separation and gravity-driven separation on oil-water emulsions. <i>Journal of Membrane Science</i> , 2018, 550, 18-25.	4.1	35
114	Enhanced separation performance of carbon nanotube-polyvinyl alcohol composite membranes for emulsified oily wastewater treatment under electrical assistance. <i>Separation and Purification Technology</i> , 2018, 197, 107-115.	3.9	50
115	Biomimetic and Superwetable Nanofibrous Skins for Highly Efficient Separation of Oil-in-Water Emulsions. <i>Advanced Functional Materials</i> , 2018, 28, 1705051.	7.8	536
116	Increasing water recovery rate of membrane hybrid process on the petrochemical wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2018, 117, 152-158.	2.7	38
117	Electrotreated Carbon Nanotube Membranes for Facile Oil-in-Water Separations. <i>ACS Applied Nano Materials</i> , 2018, 1, 2057-2061.	2.4	11
118	Fe ₃ O ₄ @SiO ₂ @MPS core/shell nanocomposites: The effect of the core weight on their magnetic properties and oil separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3034-3040.	3.3	19
119	Novel mixed-matrix membranes based on polyvinyl alcohol modified by carboxyfullerene for pervaporation dehydration. <i>Separation and Purification Technology</i> , 2018, 204, 1-12.	3.9	36
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
121	Superhydrophobic Hexamethylene Diisocyanate Modified Hydrolyzed Polymers of Intrinsic Microporosity Electrospun Ultrafine Fibrous Membrane for the Adsorption of Organic Compounds and Oil/Water Separation. <i>ACS Applied Nano Materials</i> , 2018, 1, 1631-1640.	2.4	23
122	Greatly Improved Oil-in-Water Emulsion Separation Properties of Graphene Oxide Membrane upon Compositing with Halloysite Nanotubes. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	15
123	Separating nanoscale emulsions: Progress and challenges to date. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 36, 110-117.	3.4	31
124	Application and modification of polysulfone membranes. <i>Reviews in Chemical Engineering</i> , 2018, 34, 657-693.	2.3	66
125	Superhydrophilic poly(p-phenylene sulfide) membrane preparation with acid/alkali solution resistance and its usage in oil/water separation. <i>Separation and Purification Technology</i> , 2018, 192, 262-270.	3.9	35
126	Applications of nanotechnology in oil and gas industry: Progress and perspective. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 91-100.	0.9	77
127	Facile fabrication of superhydrophobic/superoleophilic microporous membranes by spray-coating ytterbium oxide particles for efficient oil-water separation. <i>Journal of Membrane Science</i> , 2018, 548, 390-397.	4.1	60

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128	Development of a fluorescent chemosensor towards sensing and separation of Mg ²⁺ ions in chlorophyll and hard water. <i>New Journal of Chemistry</i> , 2018, 42, 902-909.	1.4	22
129	Hydrophilicity-controlled MFI-type zeolite-coated mesh for oil/water separation. <i>Separation and Purification Technology</i> , 2018, 195, 163-169.	3.9	51
130	Synthesis and characterization of mixed matrix membranes incorporated with hydrous manganese oxide nanoparticles for highly concentrated oily solution treatment. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1612-1619.	0.9	15
131	A novel dual-layer composite membrane with underwater-superoleophobic/hydrophobic asymmetric wettability for robust oil-fouling resistance in membrane distillation desalination. <i>Desalination</i> , 2018, 428, 240-249.	4.0	79
132	Tailoring the surface chemistry and morphology of glass fiber membranes for robust oil/water separation using poly(dimethylsiloxanes) as hydrophobic molecular binders. <i>Journal of Materials Chemistry A</i> , 2018, 6, 607-615.	5.2	54
133	In situ reduced graphene oxide-based polyurethane sponge hollow tube for continuous oil removal from water surface. <i>Environmental Science and Pollution Research</i> , 2018, 25, 4837-4845.	2.7	17
134	Investigation of surface and filtration properties of TiO ₂ coated ultrafiltration polyacrylonitrile membranes. <i>Water Science and Technology</i> , 2018, 77, 931-938.	1.2	6
135	Enhancement of hydrophilicity and the resistance for irreversible fouling of polysulfone (PSF) membrane immobilized with graphene oxide (GO) through chloromethylated and quaternized reaction. <i>Chemical Engineering Journal</i> , 2018, 334, 2068-2078.	6.6	57
136	New Developments in Membrane Technologies Used in the Treatment of Produced Water: A Review. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2093-2118.	1.7	60
137	Fabrication of Superhydrophobic-Superoleophilic Cement-Coated Meshes and Their Applications for Oil/Water Separation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 171, 012045.	0.2	0
138	Advanced Aeration Using Finned Panel Spacer For Fouling Control In Produced Water Membrane Filtration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 429, 012022.	0.3	1
139	Wastewater Treatment Using Membrane Technology. , 0, , .		33
140	Appropriate technologies for upgrading wastewater treatment plants: methods review and case studies in China. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 1207-1220.	0.9	9
141	A hierarchical functionalized biodegradable PLA electrospun nanofibrous membrane with superhydrophobicity and antibacterial properties for oil/water separation. <i>New Journal of Chemistry</i> , 2018, 42, 17615-17624.	1.4	44
142	Specially Wettable Membranes for Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800576.	1.9	212
143	Robust preparation of tubular PTFE/FEP ultrafine fibers-covered porous membrane by electrospinning for continuous highly effective oil/water separation. <i>Journal of Membrane Science</i> , 2018, 568, 87-96.	4.1	67
144	Review on Membranes for the Filtration of Aqueous Based Solution: Oil in Water Emulsion. <i>Journal of Membrane Science & Technology</i> , 2018, 08, .	0.5	33
145	A Nanometer-Thick, Mechanically Robust, and Easy-to-Fabricate Simultaneously Oleophobic/Hydrophilic Polymer Coating for Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	1.8	9

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146	Removal of oil from oil-water emulsion by hybrid coagulation/sand filter as pre-treatment. <i>Journal of Water Process Engineering</i> , 2018, 26, 17-27.	2.6	36
147	Research Progress on Monitoring and Separating Suspension Particles for Lubricating Oil. <i>Complexity</i> , 2018, 2018, 1-9.	0.9	10
148	<i>Zymomonas mobilis</i> immobilization in polymeric membranes for improved resistance to lignocellulose-derived inhibitors in bioethanol fermentation. <i>Biochemical Engineering Journal</i> , 2018, 140, 29-37.	1.8	22
149	Field-Induced Redistribution of Surfactants at the Oil/Water Interface Reduces Membrane Fouling on Electrically Conducting Carbon Nanotube UF Membranes. <i>Environmental Science & Technology</i> , 2018, 52, 11591-11600.	4.6	16
150	Multilayer Network Membranes Based on Evenly Dispersed Nanofibers/ Co_3O_4 Nanoneedles for High Efficiency Separation of Micrometer Scale Oil/Water Emulsions. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801004.	1.9	6
151	Silica Nanofibrous Membranes for the Separation of Heterogeneous Azeotropes. <i>Advanced Functional Materials</i> , 2018, 28, 1804138.	7.8	28
152	A novel antifouling technique for the crossflow filtration using porous membranes: Experimental and CFD investigations of the periodic feed pressure technique. <i>Water Research</i> , 2018, 146, 159-176.	5.3	35
153	WO_3/TiO_2 superhydrophilic and underwater superoleophobic membrane for effective separation of oil-in-water emulsions. <i>Thin Solid Films</i> , 2018, 665, 9-16.	0.8	27
154	Preparation of a Porous, Sintered and Reaction-Bonded Si_3N_4 (SRBSN) Planar Membrane for Filtration of an Oil-in-Water Emulsion with High Flux Performance. <i>Materials</i> , 2018, 11, 990.	1.3	9
155	Asymmetric membranes for destabilization of oil droplets in produced water from alkaline-surfactant-polymer (ASP) flooding. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
156	Enhanced Permeation through CO_2 -Stable Dual-Inorganic Composite Membranes with Tunable Nanoarchitected Channels. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8515-8524.	3.2	28
157	Preparation and characterization of a diatomite hybrid microfiltration carbon membrane for oily wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 89, 39-48.	2.7	32
158	Electrospun Filters for Oil-Water Separation. , 2018, , 151-173.		1
159	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1319-1327.	1.2	18
160	Separation of oil-in-water emulsions stabilized by different types of surfactants using electrospun fiber membranes. <i>Journal of Membrane Science</i> , 2018, 563, 247-258.	4.1	59
161	Low-Voltage Electrical Demulsification of Oily Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8341-8347.	1.8	26
162	Recent Developments of Carbon Nanomaterials-Incorporated Membranes, Carbon Nanofibers and Carbon Membranes for Oily Wastewater Treatment. , 2018, , 261-280.		3
163	Investigation of Oily Wastewater Filtration Using Polymeric Membranes: Experimental Verification of the Multicontinuum Modeling Approach. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11452-11464.	1.8	16

#	ARTICLE	IF	CITATIONS
164	Membrane separation as a pre-treatment process for oily saline water. <i>Desalination</i> , 2018, 447, 182-202.	4.0	110
165	Inspection for desorption behavior and desorption mechanism of oily sludge by thermodynamics and kinetics analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 226-233.	2.7	17
166	Water-dispersible and recyclable magnetic TiO ₂ /graphene nanocomposites in wastewater treatment. <i>Materials Letters</i> , 2018, 231, 80-83.	1.3	20
167	Preparation and Characterization of Novel Polyvinylidene Fluoride/2-Aminobenzothiazole Modified Ultrafiltration Membrane for the Removal of Cr(VI) in Wastewater. <i>Polymers</i> , 2018, 10, 19.	2.0	22
168	Superhydrophilic and underwater superoleophobic poly (acrylonitrile-co-methyl acrylate) membrane for highly efficient separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2018, 564, 712-721.	4.1	56
169	Ultralong MnO ₂ Nanowire Enhanced Multiwall Carbon Nanotube Hybrid Membrane with Underwater Superoleophobicity for Efficient Oil-in-Water Emulsions Separation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10439-10447.	1.8	57
170	Layer-by-Layer Construction of Cu ²⁺ /Alginate Multilayer Modified Ultrafiltration Membrane with Bioinspired Superwetting Property for Highly Efficient Crude Oil-in-Water Emulsion Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1801944.	7.8	256
171	Modified Porous SiO ₂ -Supported Cu ₃ (BTC) ₂ Membrane with High Performance of Gas Separation. <i>Materials</i> , 2018, 11, 1207.	1.3	7
172	Hydrophobic Janus Foam Motors: Self-Propulsion and On-The-Fly Oil Absorption. <i>Micromachines</i> , 2018, 9, 23.	1.4	22
173	Recent Advances in Nanoporous Membranes for Water Purification. <i>Nanomaterials</i> , 2018, 8, 65.	1.9	136
174	Membrane Fouling for Produced Water Treatment: A Review Study From a Process Control Perspective. <i>Water (Switzerland)</i> , 2018, 10, 847.	1.2	76
175	Superhydrophilicity and underwater superoleophobicity TiO ₂ /Al ₂ O ₃ composite membrane with ultra low oil adhesion for highly efficient oil-in-water emulsions separation. <i>Applied Surface Science</i> , 2018, 458, 157-165.	3.1	69
176	Fabrication, characterization, and performance evaluation of polyethersulfone/TiO ₂ nanocomposite ultrafiltration membranes for produced water treatment. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2619-2631.	1.6	56
177	Self-Cleaning Piezoelectric Membrane for Oil-in-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18093-18103.	4.0	42
178	Cobweb-inspired DNA-based membranes for multicomponent pollutant-oil-water emulsions separation. <i>Chemical Engineering Journal</i> , 2018, 348, 870-876.	6.6	11
179	Boron substituted MFI-type zeolite-coated mesh for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 550, 108-114.	2.3	20
180	A review on electrochemically modified carbon nanotubes (CNTs) membrane for desalination and purification of water. <i>Materials Research Express</i> , 2018, 5, 102001.	0.8	32
181	Zwitterionic Nanohydrogel Grafted PVDF Membranes with Comprehensive Antifouling Property and Superior Cycle Stability for Oil-in-Water Emulsion Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1804121.	7.8	379

#	ARTICLE	IF	CITATIONS
182	A comprehensive description of the threshold flux during oil/water emulsion filtration to identify sustainable flux regimes for tannic acid (TA) dip-coated poly(vinylidene fluoride) (PVDF) membranes. <i>Journal of Membrane Science</i> , 2018, 563, 43-53.	4.1	59
183	Benefits of polymeric membranes in Oil and Gas produced water treatment. <i>Water Practice and Technology</i> , 2018, 13, 303-311.	1.0	9
184	Integrated interrogation of causes of membrane fouling in a pilot-scale anoxic-oxic membrane bioreactor treating oil refinery wastewater. <i>Science of the Total Environment</i> , 2018, 642, 77-89.	3.9	21
185	Development of chitosan/pluronic F108/polyethersulfone (PES) nanofiltration (NF) membrane for oily wastewater treatment. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
186	Special Focus on Produced Water in Oil and Gas Fields. , 2018, , 515-586.		14
187	Electrochemically active carbon nanotube (CNT) membrane filter for desalination and water purification. , 2018, , 333-363.		7
188	Membrane technology in wastewater treatment enhanced by functional nanomaterials. <i>Journal of Cleaner Production</i> , 2018, 197, 339-348.	4.6	84
189	Engineered Smart Textiles and Janus Microparticles for Diverse Functional Industrial Applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 229-245.	0.6	13
190	Fabrication of acrylamide decorated superhydrophilic and underwater superoleophobic poly(vinylidene fluoride) membranes for oil/water emulsion separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 300-307.	2.7	24
191	Designing hybrid materials with multifunctional interfaces for wound dressing, electrocatalysis, and chemical separation. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 106-125.	5.0	16
192	Flow distribution and pressure drop in UZ-type mini-hydrocyclone group arranged in compact parallel manifolds. <i>Experimental Thermal and Fluid Science</i> , 2019, 100, 114-123.	1.5	9
193	Highly permeable photo-catalytic mesoporous aluminum oxide membrane for oil emulsion separation. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 323-335.	1.1	5
194	Preparation of hydrophobically modified cotton filter fabric with high hydrophobic stability using ARGET-ATRP mechanism. <i>RSC Advances</i> , 2019, 9, 24659-24669.	1.7	16
195	Membrane Surface Engineering with Bifunctional Zwitterions for Efficient Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31328-31337.	4.0	45
196	Investigation on water adsorption on 3-crosslinked circular polyacrylamide membrane using ab initio, molecular dynamics and monte carlo calculations for dewatering microalgae. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012144.	0.2	2
197	Synthesis of nanocomposite membrane incorporated with amino-functionalized nanocrystalline cellulose for refinery wastewater treatment. <i>Carbohydrate Polymers</i> , 2019, 225, 115212.	5.1	36
198	Control pairings of a deoiling membrane crossflow filtration process based on theoretical and experimental results. <i>Journal of Process Control</i> , 2019, 81, 98-111.	1.7	5
199	Wetting Transition from Hydrophilic to Superhydrophobic over Dendrite Copper Leaves Grown on Steel Meshes. <i>Journal of Bionic Engineering</i> , 2019, 16, 719-729.	2.7	12

#	ARTICLE	IF	CITATIONS
200	Bridged polysilsesquioxane membranes for water desalination. <i>Polymer Journal</i> , 2019, 51, 1103-1116.	1.3	21
201	P (VDF-co-CTFE)-g-P2VP amphiphilic graft copolymers: Synthesis, structure, and permeation properties. <i>Polymers for Advanced Technologies</i> , 2019, 30, 2707-2720.	1.6	2
202	Support vector machine-based modeling of grafting hyperbranched polyethylene glycol on polyethersulfone ultrafiltration membrane for separation of oil-water emulsion. <i>Research on Chemical Intermediates</i> , 2019, 45, 5725-5743.	1.3	8
203	PEG functionalized graphene oxide-silver nano-additive for enhanced hydrophilicity, permeability and fouling resistance properties of PVDF-co-HFP membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123646.	2.3	28
204	Synergistic High-flux Oil-Saltwater Separation and Membrane Desalination with Carbon Quantum Dots Functionalized Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13708-13716.	3.2	46
205	Microporous Carbon Membrane: Preparation, Characterization, and Applications. , 2019, , 1-38.		0
206	Efficient Oil/Water Separation Membrane Derived from Super-Flexible and Superhydrophilic Core-Shell Organic/Inorganic Nanofibrous Architectures. <i>Polymers</i> , 2019, 11, 974.	2.0	20
207	Liquid-Liquid Continuous Extraction and Fractional Distillation for the Removal of Organic Compounds from the Wastewater of the Oil Industry. <i>Water (Switzerland)</i> , 2019, 11, 1452.	1.2	11
208	Cold-cathode X-ray irradiation pre-treatment for fouling control of reverse osmosis (RO) in shale gas produced water (SGPW) treatment. <i>Chemical Engineering Journal</i> , 2019, 374, 49-58.	6.6	18
209	Complex membrane of cellulose and chitin nanocrystals with cationic guar gum for oil/water separation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47947.	1.3	25
210	Effects of membrane morphology on the rejection of oil droplets: Theoretical analysis based on network modeling. <i>Journal of Membrane Science</i> , 2019, 588, 117198.	4.1	14
211	Antifouling and antibacterial evaluation of ZnO/MWCNT dual nanofiller polyethersulfone mixed matrix membrane. <i>Journal of Environmental Management</i> , 2019, 249, 109358.	3.8	36
212	Chemical and physicochemical properties of formation waters of the oil and gas industry. <i>Journal of Hydrology</i> , 2019, 578, 124011.	2.3	11
213	Tailoring the structure and property of microfiltration carbon membranes by polyacrylonitrile-based microspheres for oil-water emulsion separation. <i>Journal of Water Process Engineering</i> , 2019, 32, 100973.	2.6	18
214	Superhydrophilic anti-corrosive and superhydrophobic durable TiO ₂ /Ti mesh for oil/water separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 105, 124-133.	2.7	25
215	Highly efficient and reusable superhydrophobic/superoleophilic polystyrene@ Fe ₃ O ₄ nanofiber membrane for high-performance oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103508.	3.3	61
216	Functionalization of Electrospun Membranes with Polyelectrolytes for Separation of Oil-in-Water Emulsions. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901285.	1.9	21
217	Electrocoagulation technique for refinery wastewater treatment in an internal loop split-plate airlift reactor. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103489.	3.3	38

#	ARTICLE	IF	CITATIONS
218	Low-Voltage Surface Electrocoalescence Enabled by High-K Dielectrics and Surfactant Bilayers for Oil-Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 34812-34818.	4.0	9
219	High-temperature CO ₂ removal from CH ₄ using silica membrane: experimental and neural network modeling. , 2019, 9, 1010-1026.		22
220	Recent advances in ion-imprinted membranes: separation and detection <i>via</i> ion-selective recognition. Environmental Science: Water Research and Technology, 2019, 5, 1626-1653.	1.2	55
221	Hierarchically Stabilized PAN/FeOOH Nanofibrous Membrane for Efficient Water Purification with Excellent Antifouling Performance and Robust Solvent Resistance. ACS Applied Materials & Interfaces, 2019, 11, 34487-34496.	4.0	77
222	New synthesis polyvinyl chloride- graft- acrylamide membrane for wastewater treatment. AIP Conference Proceedings, 2019, . .	0.3	0
223	Synthesis of ethyl cellulose/aluminosilicate zeolite nanofibrous membranes for oil-water separation and oil absorption. Cellulose, 2019, 26, 9787-9801.	2.4	17
224	Enhancement of COD Removal from Oilfield Produced Wastewater by Combination of Advanced Oxidation, Adsorption and Ultrafiltration. International Journal of Environmental Research and Public Health, 2019, 16, 3223.	1.2	12
225	Manipulating the surface wettability of polysaccharide based complex membrane for oil/water separation. Carbohydrate Polymers, 2019, 225, 115231.	5.1	27
226	Environmentally benign development of superhydrophilic and underwater superoleophobic mesh for effective oil/water separation. Surface and Coatings Technology, 2019, 377, 124892.	2.2	17
227	Finned spacer for efficient membrane fouling control in produced water filtration. Journal of Environmental Management, 2019, 249, 109359.	3.8	13
228	Carbon-based polymer nanocomposite membranes for oily wastewater treatment. Npj Clean Water, 2019, 2, .	3.1	86
229	Polyacrylonitrile nanocomposite with carbon nanostructures: a review. Polymer-Plastics Technology and Materials, 2019, 58, 707-731.	0.6	5
230	Design and fabrication of superwetting fiber-based membranes for oil/water separation applications. Chemical Engineering Journal, 2019, 364, 292-309.	6.6	287
231	Efficient hybrid modeling of CO ₂ absorption in aqueous solution of piperazine: Applications to energy and environment. Chemical Engineering Research and Design, 2019, 144, 405-417.	2.7	46
232	Protein-Functionalized Aerogel Membranes for Gravity-Driven Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 4814-4820.	3.2	16
233	Refinery processed water treatment <i>via</i> the low energy Direct Contact Membrane Distillation (DCMD). Oil and Gas Science and Technology, 2019, 74, 3.	1.4	8
234	A Novel PAN-GO-SiO ₂ Hybrid Membrane for Separating Oil and Water from Emulsified Mixture. Materials, 2019, 12, 212.	1.3	46
235	Effects of phase transformation on properties of alumina ceramic membrane: A new assessment based on quantitative X-ray diffraction (QXRD). Chemical Engineering Science, 2019, 199, 349-358.	1.9	12

#	ARTICLE	IF	CITATIONS
236	3D-printed ceramic structures with in situ grown whiskers for effective oil/water separation. <i>Chemical Engineering Journal</i> , 2019, 373, 1223-1232.	6.6	52
237	A newly isolated strain of <i>Serratia</i> sp. from an oil spillage site of Assam shows excellent bioremediation potential. <i>3 Biotech</i> , 2019, 9, 283.	1.1	11
238	Liquid-Infused Membranes with Oil-in-Water Emulsions. <i>Langmuir</i> , 2019, 35, 9513-9520.	1.6	24
239	Ceramic-based membranes for water and wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123513.	2.3	179
240	Ultralight, robustly compressible and super-hydrophobic biomass-decorated carbonaceous melamine sponge for oil/water separation with high oil retention. <i>Applied Surface Science</i> , 2019, 489, 922-929.	3.1	57
241	Rigorous testing to assess the self-cleaning properties of an ultra-water-repellent silicone rubber surface. <i>Surface and Coatings Technology</i> , 2019, 374, 557-568.	2.2	24
242	Effect of surfactant hydrophobicity and charge type on membrane distillation performance. <i>Journal of Membrane Science</i> , 2019, 587, 117168.	4.1	34
243	Performance of electrocoagulation and electro-Fenton processes for treatment of nanofiltration concentrate of biologically stabilized landfill leachate. <i>Journal of Water Process Engineering</i> , 2019, 31, 100863.	2.6	50
244	Tannin-inspired robust fabrication of superwettability membranes for highly efficient separation of oil-in-water emulsions and immiscible oil/water mixtures. <i>Separation and Purification Technology</i> , 2019, 227, 115657.	3.9	54
245	Investigations of the effect of pore size of ceramic membranes on the pilot-scale removal of oil from oil-water emulsion. <i>Journal of Water Process Engineering</i> , 2019, 31, 100868.	2.6	25
246	The effect of hydrocarbon pollution on polysulfone-based membranes in aqueous separations. <i>Separation and Purification Technology</i> , 2019, 224, 348-355.	3.9	4
248	Comparison of NLDH and g-C ₃ N ₄ nanoplates and formative Ag ₃ PO ₄ nanoparticles in PES microfiltration membrane fouling: Applications in MBR. <i>Chemical Engineering Research and Design</i> , 2019, 147, 443-457.	2.7	32
249	<i>110th Anniversary:</i> The Missing Link Unearthed: Materials and Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9212-9222.	1.8	29
250	Superwetting Polymeric Three Dimensional (3D) Porous Materials for Oil/Water Separation: A Review. <i>Polymers</i> , 2019, 11, 806.	2.0	103
251	Fabrication of pH-sensitive thin-film nanocomposite nanofiltration membranes with enhanced performance by incorporating amine-functionalized graphene oxide. <i>Applied Surface Science</i> , 2019, 487, 1209-1221.	3.1	63
252	Porous nanofibrous superhydrophobic membrane with embedded Au nanoparticles for the integration of oil/water separation and catalytic degradation. <i>Journal of Membrane Science</i> , 2019, 582, 350-357.	4.1	48
253	Fabrication of cellulose nanofiber-deposited cellulose sponge as an oil-water separation membrane. <i>Separation and Purification Technology</i> , 2019, 224, 322-331.	3.9	57
254	Recent Advances in Robust Superwetttable Membranes for Oil-Water Separation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900126.	1.9	107

#	ARTICLE	IF	CITATIONS
255	Sol-gel derived zirconia membrane on silicon carbide substrate. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3804-3811.	2.8	10
256	Composite inorganic anion exchange membrane for electrodialytic desalination of milky whey. <i>Materials Today: Proceedings</i> , 2019, 6, 250-259.	0.9	18
257	Two-dimensional membrane and three-dimensional bulk aerogel materials via top-down wood nanotechnology for multibehavioral and reusable oil/water separation. <i>Chemical Engineering Journal</i> , 2019, 371, 769-780.	6.6	154
258	Enhancing Permeability of Thin Film Nanocomposite Membranes via Covalent Linking of Polyamide with the Incorporated Metal-Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8772-8783.	1.8	43
259	Techno-economic comparative assessment of novel lignin depolymerization routes to bio-based aromatics. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1068-1084.	1.9	48
260	Comparison of CNT-PVA membrane and commercial polymeric membranes in treatment of emulsified oily wastewater. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	23
261	Facile preparation of isotactic polypropylene microporous membranes with bioinspired hierarchical morphology for nano-scale water-in-oil emulsion separation. <i>Journal of Membrane Science</i> , 2019, 581, 224-235.	4.1	41
262	Membrane-based separation for oily wastewater: A practical perspective. <i>Water Research</i> , 2019, 156, 347-365.	5.3	378
263	An efficient use of waste PE for hydrophobic surface coating and its application on cotton fibers for oil-water separator. <i>Progress in Organic Coatings</i> , 2019, 131, 301-310.	1.9	30
264	Nanowires versus nanosheets – Effects of NiCo ₂ O ₄ nanostructures on ceramic membrane permeability and fouling potential. <i>Separation and Purification Technology</i> , 2019, 215, 644-651.	3.9	13
265	Microfiltration of oil emulsions stabilized by different surfactants. <i>Journal of Membrane Science</i> , 2019, 579, 199-209.	4.1	42
266	Cross-Linked Carbon Nanotube Adsorbents for Water Treatment: Tuning the Sorption Capacity through Chemical Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12920-12930.	4.0	45
267	Adsorption of anion polyacrylamide from aqueous solution by polytetrafluoroethylene (PTFE) membrane as an adsorbent: Kinetic and isotherm studies. <i>Journal of Colloid and Interface Science</i> , 2019, 544, 303-311.	5.0	32
268	Robust and durable self-healing superhydrophobic polymer-coated MWCNT film for highly efficient emulsion separation. <i>Environmental Science: Nano</i> , 2019, 6, 1259-1266.	2.2	29
269	Waterproof breathable layers – A review. <i>Advances in Colloid and Interface Science</i> , 2019, 268, 114-135.	7.0	58
270	Electrooxidation Using Nb/BDD as Post-Treatment of a Reverse Osmosis Concentrate in the Petrochemical Industry. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 816.	1.2	10
271	Cross-linking of dehydrofluorinated PVDF membranes with thiol modified polyhedral oligomeric silsesquioxane (POSS) and pure water flux analysis. <i>Journal of Membrane Science</i> , 2019, 581, 362-372.	4.1	20
272	Fabrication of mullite ceramic-supported carbon nanotube composite membranes with enhanced performance in direct separation of high-temperature emulsified oil droplets. <i>Journal of Membrane Science</i> , 2019, 582, 140-150.	4.1	48

#	ARTICLE	IF	CITATIONS
273	Efficient oil/water separation by a durable underwater superoleophobic mesh membrane with TiO ₂ coating via biomineralization. Separation and Purification Technology, 2019, 222, 35-44.	3.9	30
274	Hydrophilic and antifouling modification of PVDF membranes by one-step assembly of tannic acid and polyvinylpyrrolidone. Applied Surface Science, 2019, 483, 967-978.	3.1	69
275	Three-channel stainless steel hollow fiber membrane with inner layer modified by nano-TiO ₂ coating method for the separation of oil-in-water emulsions. Separation and Purification Technology, 2019, 222, 75-84.	3.9	17
276	Thin film metallic glass as an effective coating for enhancing oil/water separation of electrospun polyacrylonitrile membrane. Surface and Coatings Technology, 2019, 368, 33-41.	2.2	29
277	Nanotechnology for Oil-Water Separation. Nanotechnology in the Life Sciences, 2019, , 299-339.	0.4	38
278	Efficiently improved oil/water separation using high flux and superior antifouling polysulfone hollow fiber membranes modified with functionalized carbon nanotubes/graphene oxide nanohybrid. Journal of Environmental Chemical Engineering, 2019, 7, 102944.	3.3	58
279	A modified, mussel-inspired method to fabricate polyvinylidene fluoride membranes filled with halloysite nanotubes modified with dopamine, iron oxide, and silane for oil/water separation. Journal of Plastic Film and Sheeting, 2019, 35, 260-280.	1.3	4
280	Investigation study the ability of superhydrophobic silica to adsorb the Iraqi crude oil leaked in water. IOP Conference Series: Materials Science and Engineering, 2019, 571, 012116.	0.3	5
281	Pengaruh Karbon Aktif Komposit Hibrida pada Absorpsi Air Permukaan. Jurnal Energi Dan Manufaktur, 2019, 12, 47.	0.1	0
282	Synthesis and characterization of PSF/PES composite membranes for use in oily wastewater treatment. Journal of Physics: Conference Series, 2019, 1378, 022013.	0.3	2
283	Experimental Investigation of Copper Mesh Substrate with Selective Wettability to Separate Oil/Water Mixture. Energies, 2019, 12, 4564.	1.6	2
284	Cellulose Acetate/Activated Carbon Composite Membrane with Effective Dye Adsorption Performance. Journal of Macromolecular Science - Physics, 2019, 58, 909-920.	0.4	14
285	Fabrication of ZnO nanoparticles adorned nitrogen-doped carbon balls and their application in photodegradation of organic dyes. Scientific Reports, 2019, 9, 19509.	1.6	53
287	Underwater superoleophobic PVA/GO nanofibrous membranes for emulsified oily water purification. Environmental Science: Nano, 2019, 6, 3723-3733.	2.2	19
288	An ultrathin <i>in situ</i> silicification layer developed by an electrostatic attraction force strategy for ultrahigh-performance oil/water emulsion separation. Journal of Materials Chemistry A, 2019, 7, 24569-24582.	5.2	47
289	Plant-Inspired Layer-by-Layer Self-Assembly of Super-Hydrophobic Coating for Oil Spill Cleanup. Polymers, 2019, 11, 2047.	2.0	5
290	Research Progress and Prospects of Marine Oily Wastewater Treatment: A Review. Water (Switzerland), 2019, 11, 2517.	1.2	69
291	Recent Progresses of Ultrafiltration (UF) Membranes and Processes in Water Treatment. , 2019, , 85-110.		13

#	ARTICLE	IF	CITATIONS
292	Study on the oil/water separation performance of a super-hydrophobic copper mesh under downhole conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 310-318.	2.9	19
293	3D printed composite membranes with enhanced anti-fouling behaviour. <i>Journal of Membrane Science</i> , 2019, 574, 76-85.	4.1	84
294	Natural cellulose microfiltration membranes for oil/water nanoemulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 564, 142-151.	2.3	49
295	Zwitterionic Nanofibrous Membranes with a Superior Antifouling Property for Gravity-Driven Crude Oil-in-Water Emulsion Separation. <i>Langmuir</i> , 2019, 35, 1682-1689.	1.6	56
296	Shrimp Shell-Inspired Antifouling Chitin Nanofibrous Membrane for Efficient Oil/Water Emulsion Separation with In Situ Removal of Heavy Metal Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2064-2072.	3.2	73
297	Organic removal and synthesis of biopolymer from synthetic oily bilge water using the novel mixed bacterial consortium. <i>Bioresource Technology</i> , 2019, 273, 169-176.	4.8	22
298	Anti-fouling TiO ₂ nanowires membrane for oil/water separation: Synergetic effects of wettability and pore size. <i>Journal of Membrane Science</i> , 2019, 572, 596-606.	4.1	97
299	Î ² -SiAlON ceramic membranes modified with SiO ₂ nanoparticles with high rejection rate in oil-water emulsion separation. <i>Ceramics International</i> , 2019, 45, 4237-4242.	2.3	37
300	Evaporation-condensation derived silicon carbide membrane from silicon carbide particles with different sizes. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1781-1787.	2.8	37
301	Superhydrophobic or Hydrophilic Porous Metallic/Ceramic Tubular Membranes for Continuous Separations of Biodieselâ€“Water W/O and O/W Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1114-1122.	1.8	15
302	Electrospun Nanofibers for Oilâ€“Water Separation. , 2019, , 391-417.		6
303	Superhydrophobic plasma polymerized nanosponge with high oil sorption capacity. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800158.	1.6	9
304	Preparation of foulingâ€“resistant and selfâ€“cleaning PVDF membrane via surfaceâ€“initiated atom transfer radical polymerization for emulsified oil/water separation. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1581-1588.	0.9	13
305	Thermal stability of hydrophilic PEO-silane modified ceramic membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 254-266.	2.3	5
306	Overview of Potential Applications of Nano-Biotechnology in Wastewater and Effluent Treatment. , 2019, , 87-100.		11
307	Optimisation of the removal of oil in water emulsion by using ceramic microfiltration membrane and hybrid coagulation/sand filter-MF. <i>Journal of Water Process Engineering</i> , 2019, 27, 15-23.	2.6	30
308	Functional magnetic nanoparticles for enhancing ultrafiltration of waste cutting emulsions by significantly increasing flux and reducing membrane fouling. <i>Journal of Membrane Science</i> , 2019, 573, 73-84.	4.1	21
309	Advantages of TiO ₂ /carbon nanotube modified photocatalytic membranes in the purification of oil-in-water emulsions. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1167-1174.	1.0	18

#	ARTICLE	IF	CITATIONS
310	Asymmetric Janus membranes based on in situ mussel-inspired chemistry for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2019, 573, 126-134.	4.1	68
311	Modification of hydrophobic commercial PVDF microfiltration membranes into superhydrophilic membranes by the mussel-inspired method with dopamine and polyethyleneimine. <i>Separation and Purification Technology</i> , 2019, 212, 641-649.	3.9	93
312	Current Status and Future Prospects of Membrane Bioreactors (MBRs) and Fouling Phenomena: A Systematic Review. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 32-58.	0.9	79
313	Oil-water emulsion separation using intrinsically superoleophilic and superhydrophobic PVDF membrane. <i>Separation and Purification Technology</i> , 2019, 212, 388-395.	3.9	66
314	Hyperbranched poly(amidoamine)/TMC reverse osmosis membrane for oily saline water treatment. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2779-2788.	1.2	16
315	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 549-611.	6.6	143
316	Treatment of wastewater from petroleum industry: current practices and perspectives. <i>Environmental Science and Pollution Research</i> , 2020, 27, 27172-27180.	2.7	164
317	Membrane technologies for Li+/Mg ²⁺ separation from salt-lake brines and seawater: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 7-23.	2.9	186
318	Tubular ceramic performance as separator for microbial fuel cell: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22340-22348.	3.8	11
319	A novel high-durability oxidized poly (arylene sulfide sulfone) electrospun nanofibrous membrane for direct water-oil separation. <i>Separation and Purification Technology</i> , 2020, 234, 116012.	3.9	26
320	Phase inversion/sintering-induced porous ceramic microsheet membranes for high-quality separation of oily wastewater. <i>Journal of Membrane Science</i> , 2020, 595, 117477.	4.1	59
321	Incorporating dual-defense mechanism with functionalized graphene oxide and perfluorosulfonic acid for anti-fouling membranes. <i>Separation and Purification Technology</i> , 2020, 234, 116082.	3.9	16
322	Design of Active Interfaces Using Responsive Molecular Components. <i>Advanced Materials</i> , 2020, 32, e1904957.	11.1	27
323	Effects of Pre-ozonation on Membrane Filtration of Oil-in-water Emulsions Using Different Polymeric (PES, PAN, PTFE) Ultrafilter Membranes. <i>Ozone: Science and Engineering</i> , 2020, 42, 230-243.	1.4	5
324	Effect of embedding MWCNT-g-GO with PVC on the performance of PVC membranes for oily wastewater treatment. <i>Chemical Engineering Communications</i> , 2020, 207, 733-750.	1.5	35
325	Hydrothermal synthesized UV-resistance and transparent coating composited superoleophilic electrospun membrane for high efficiency oily wastewater treatment. <i>Journal of Hazardous Materials</i> , 2020, 383, 121152.	6.5	176
326	Hydrophilic polymer-based membrane for oily wastewater treatment: A review. <i>Separation and Purification Technology</i> , 2020, 233, 116007.	3.9	279
327	Control of organic and surfactant fouling using dynamic membranes in the separation of oil-in-water emulsions. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 787-794.	5.0	23

#	ARTICLE	IF	CITATIONS
328	Adsorption mechanisms of crude oil onto polytetrafluoroethylene membrane: Kinetics and isotherm, and strategies for adsorption fouling control. Separation and Purification Technology, 2020, 235, 116212.	3.9	27
329	Pilot plants of membrane technology in industry: Challenges and key learnings. Frontiers of Chemical Science and Engineering, 2020, 14, 305-316.	2.3	19
330	Development of high water permeability and chemically stable thin film nanocomposite (TFN) forward osmosis (FO) membrane with poly(sodium 4-styrenesulfonate) (PSS)-coated zeolitic imidazolate framework-8 (ZIF-8) for produced water treatment. Journal of Water Process Engineering, 2020, 33, 101031.	2.6	26
331	Synthesis of polyethersulfone (PES)/GO-SiO ₂ mixed matrix membranes for oily wastewater treatment. Water Science and Technology, 2020, 81, 1354-1364.	1.2	25
332	A pre-wetting induced superhydrophilic/superlipophilic micro-patterned electrospun membrane with self-cleaning property for on-demand emulsified oily wastewater separation. Journal of Hazardous Materials, 2020, 384, 121475.	6.5	43
333	Carbonaceous microsphere/nanofiber composite superhydrophilic membrane with enhanced anti-adhesion property towards oil and anionic surfactant: Membrane fabrication and applications. Separation and Purification Technology, 2020, 235, 116189.	3.9	26
334	Environmentally friendly kaolin-coated meshes with superhydrophilicity and underwater superoleophobicity for oil/water separation. Separation and Purification Technology, 2020, 239, 116541.	3.9	27
335	Photoinduced superwetting membranes for separation of oil-in-water emulsions. Separation and Purification Technology, 2020, 241, 116536.	3.9	35
336	Improved antifouling and self-cleaning ability of PVDF ultrafiltration membrane grafted with polymer brushes for oily water treatment. Journal of Industrial and Engineering Chemistry, 2020, 83, 401-408.	2.9	33
337	Preparation of a polystyrene-based super-hydrophilic mesh and evaluation of its oil/water separation performance. Journal of Membrane Science, 2020, 597, 117747.	4.1	50
338	Improvements on electrical conductivity of the electrospun microfibers using the silver nanoparticles. Journal of Applied Polymer Science, 2020, 137, 48788.	1.3	5
339	High-porosity whisker-mullite/corundum membrane support prepared from recycled industrial waste coal cinder. Ceramics International, 2020, 46, 4086-4094.	2.3	18
340	Highly hydrophobic F-rGO@wood sponge for efficient clean-up of viscous crude oil. Chemical Engineering Journal, 2020, 386, 123994.	6.6	125
341	Facile preparation of superwetting surfaces by dip-coating of silane for efficient separation of different types of oils from water. Chemical Engineering Research and Design, 2020, 134, 226-238.	2.7	15
342	Unlocking the application potential of forward osmosis through integrated/hybrid process. Science of the Total Environment, 2020, 706, 136047.	3.9	41
343	Insight into essential channel effect of pore structures and hydrogen bonds on the solvent extraction of oily sludge. Journal of Hazardous Materials, 2020, 389, 121826.	6.5	61
344	Alumina double-layered ultrafiltration membranes with enhanced water flux. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124324.	2.3	9
345	Nanotechnology-based sorption and membrane technologies for the treatment of petroleum-based pollutants in natural ecosystems and wastewater streams. Advances in Colloid and Interface Science, 2020, 275, 102071.	7.0	47

#	ARTICLE	IF	CITATIONS
346	Heterogeneous persulfate activation by nano-sized Mn ₃ O ₄ to degrade furfural from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 298, 112088.	2.3	47
347	Sustainable Membrane Production through Polyelectrolyte Complexation Induced Aqueous Phase Separation. <i>Advanced Functional Materials</i> , 2020, 30, 1907344.	7.8	74
348	Development of underwater superoleophobic polyamide-imide (PAI) microfiltration membranes for oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 238, 116451.	3.9	53
349	Superhydrophobic PU Sponge Modified by Hydrophobic Silica NPs@Polystyrene Nanocomposite for Oil-in-Water Separation. <i>Macromolecular Symposia</i> , 2020, 393, 2000035.	0.4	9
350	Development of superhydrophilic tannic acid-crosslinked graphene oxide membranes for efficient treatment of oil contaminated water with enhanced stability. <i>Heliyon</i> , 2020, 6, e05127.	1.4	21
351	Development of closed systems of oil-field water treatment as a basis of ecological safety of oil deposits settlements maintenance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 880, 012042.	0.3	0
352	Surface matrix functionalization of ceramic-based membrane for oil-water separation: A mini-review. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1631-1641.	1.2	15
353	Treatment of alkali/surfactant/polymer flooding oilfield wastewater with polytetrafluoroethylene microfiltration membrane: Performance and membrane fouling. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104462.	3.3	21
354	Efficient microfiltration of oil-water emulsion using ACF-supported and GO-dispersed RF membrane. <i>Separation and Purification Technology</i> , 2020, 251, 117310.	3.9	14
355	Mixed matrix membranes containing aspartic acid functionalized graphene oxide for enhanced oil-water emulsion separation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104269.	3.3	39
356	Fluoropolymers for oil/water membrane separation. , 2020, , 209-246.		4
357	3D-Printed Membranes with a Zwitterionic Hydrogel Coating for More Robust Oil-in-Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21058-21065.	1.8	27
358	In situ metal-polyphenol interfacial assembly tailored superwetting PES/SPES/MPN membranes for oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2020, 615, 118566.	4.1	81
359	High performance isotropic polyethersulfone membranes for heavy oil-in-water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 253, 117467.	3.9	37
360	Investigation of the applicability of TiO ₂ , BiVO ₄ , and WO ₃ nanomaterials for advanced photocatalytic membranes used for oil-in-water emulsion separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2549.	0.8	14
361	Superhydrophilic carbonaceous-silver nanofibrous membrane for complex oil/water separation and removal of heavy metal ions, organic dyes and bacteria. <i>Journal of Membrane Science</i> , 2020, 614, 118491.	4.1	79
362	Natural Highly-hydrophobic urushiol@TiO ₂ coated cotton fabric for effective oil-in-water separation in highly acidic alkaline and salty environment. <i>Separation and Purification Technology</i> , 2020, 253, 117495.	3.9	30
363	Oily wastewater treatment via phase-inverted polyethersulfone-maghemite (PES/γ-Fe ₂ O ₃) composite membranes. <i>Journal of Water Process Engineering</i> , 2020, 37, 101545.	2.6	22

#	ARTICLE	IF	CITATIONS
364	Simplified Formula for the Critical Entry Pressure and a Comprehensive Insight into the Critical Velocity of Dislodgment of a Droplet in Crossflow Filtration. <i>Langmuir</i> , 2020, 36, 9634-9642.	1.6	11
365	In-situ monitoring of oil emulsion fouling in ultrafiltration via electrical impedance spectroscopy (EIS): Influence of surfactant. <i>Journal of Membrane Science</i> , 2020, 616, 118527.	4.1	18
366	Influence of support surface roughness on zeolite membrane quality. <i>Microporous and Mesoporous Materials</i> , 2020, 308, 110546.	2.2	7
367	PVDF-Modified TiO ₂ Nanowires Membrane with Underliquid Dual Superlyophobic Property for Switchable Separation of Oil-in-Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40925-40936.	4.0	51
369	Simple Amphoteric Charge Strategy to Reinforce Superhydrophilic Polyvinylidene Fluoride Membrane for Highly Efficient Separation of Various Surfactant-Stabilized Oil-in-Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47018-47028.	4.0	52
371	Enhancing nanofiltration performance by incorporating tannic acid modified metal-organic frameworks into thin-film nanocomposite membrane. <i>Environmental Research</i> , 2020, 191, 110215.	3.7	31
372	Sol-gel SiO ₂ on electrospun polyacrylonitrile nanofiber for efficient oil-in-water emulsion separation. <i>Journal of Materials Science</i> , 2020, 55, 16129-16142.	1.7	18
373	Sustainable ceramics derived from solid wastes: a review. <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 984-1009.	1.0	47
375	Efficient Oil Removal of Polymer Flooding Produced Sewerage Using Super-Hydrophobic Mesh Filtration Method. <i>Colloids and Interfaces</i> , 2020, 4, 32.	0.9	0
376	A New Design of Tubular Ceramic Membrane Module for Oily Water Treatment: Multiphase Flow Behavior and Performance Evaluation. <i>Membranes</i> , 2020, 10, 403.	1.4	2
377	Application of Microfiltration membrane Technology in Water treatment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 571, 012158.	0.2	7
378	The effect of grafting monomer charge on the antifouling performance of poly(ether ether ketone) hollow fiber membrane by ultraviolet irradiation polymerization. <i>Polymer International</i> , 2020, 70, 1057.	1.6	5
379	Tuning the hydrophobicity of MOF sponge for efficient oil/water separation. <i>Chemical Physics Impact</i> , 2020, 1, 100001.	1.7	17
380	Enlargement of oil droplets by using asymmetric structure of polyvinylidene fluoride membranes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 736, 022001.	0.3	1
381	End-to-End Distance Probability Distributions of Dilute Poly(ethylene oxide) in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020, 142, 19631-19641.	6.6	22
382	Zinc imidazolate framework-8 nanoparticle application in oil removal from oil/water emulsion and reuse. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	8
383	Bioinspired Anti-Oil-Fouling Hierarchical Structured Membranes Decorated with Urchin-Like γ -FeOOH Particles for Efficient Oil/Water Mixture and Crude Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50962-50970.	4.0	40
384	Facilely fabricating superhydrophobic coated-mesh materials for effective oil-water separation: Effect of mesh size towards various organic liquids. <i>Journal of Materials Science and Technology</i> , 2020, 51, 151-160.	5.6	27

#	ARTICLE	IF	CITATIONS
385	Embedded polyzwitterionic brush-modified nanofibrous membrane through subsurface-initiated polymerization for highly efficient and durable oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 388-398.	5.0	41
386	Facile Fabrication of Superhydrophobic and Magnetic Poly(lactic acid) Nonwoven Fabric for Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9127-9135.	1.8	36
387	Hydrophilic-Oleophobic Membranes Based on Hydrolysis Products of Methoxytrimethylsilane with Additions of Silica Particles. <i>Journal of Engineering Physics and Thermophysics</i> , 2020, 93, 409-415.	0.2	2
388	Omni-Directional Protected Nanofiber Membranes by Surface Segregation of PDMS-Terminated Triblock Copolymer for High-Efficiency Oil/Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25324-25333.	4.0	31
389	Applications of Graphene and Its Derivatives in the Upstream Oil and Gas Industry: A Systematic Review. <i>Nanomaterials</i> , 2020, 10, 1013.	1.9	20
390	Fabrication of superhydrophobic/oleophilic membranes by chemical modification of cellulose filter paper and their application trial for oil/water separation. <i>Cellulose</i> , 2020, 27, 6093-6101.	2.4	17
391	A review of oily wastewater treatment using ultrafiltration membrane: A parametric study to enhance the membrane performance. <i>Journal of Water Process Engineering</i> , 2020, 36, 101289.	2.6	114
392	Development of hydroxyl and carboxylic acid functionalized CNTs/polysulphone nanocomposite fouling-resistant ultrafiltration membranes for oil/water separation. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	15
393	Membrane fouling by emulsified oil: A review. <i>Separation and Purification Technology</i> , 2020, 248, 116919.	3.9	166
394	Designing of a novel polyethersulfone (PES) ultrafiltration (UF) membrane with thermal stability and high fouling resistance using melamine-modified zirconium-based metal-organic framework (UiO-66-NH ₂ /MOF). <i>Separation and Purification Technology</i> , 2020, 251, 117010.	3.9	62
395	Simultaneously demulsification and coalescence deoiling of O/W emulsion by a zeolite composite material. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 153, 107954.	1.8	4
396	Petroleum Refinery Wastewater Treatment using Three Steps Modified Nanohybrid Membrane Coupled with Ozonation as Integrated Pre-treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103978.	3.3	23
397	Electrospun Nanofibrous Membranes for Water Treatment. , 0, , .		8
398	Synthetic polymer-based membranes for treatment of oily wastewater. , 2020, , 3-22.		1
399	An integrated process for the advanced treatment of hypersaline petrochemical wastewater: A pilot study. <i>Water Research</i> , 2020, 182, 116019.	5.3	37
400	Diffusion-Controlled Spontaneous Emulsification of Water-Soluble Oils via Micelle Swelling. <i>Langmuir</i> , 2020, 36, 7517-7527.	1.6	11
401	Wastewater Treatment Technologies: A Bibliometric Analysis. <i>Science and Technology Libraries</i> , 2020, 39, 383-394.	0.8	12
402	Synthetic polymer-based membranes for photodegradation of organic hazardous materials. , 2020, , 53-70.		1

#	ARTICLE	IF	CITATIONS
403	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. <i>Frontiers in Chemistry</i> , 2020, 8, 578.	1.8	14
404	A critical review of membrane modification techniques for fouling and biofouling control in pressure-driven membrane processes. <i>Nanotechnology for Environmental Engineering</i> , 2020, 5, 1.	2.0	48
405	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
406	A review of microalgae and other treatment methods of distillery wastewater. <i>Water and Environment Journal</i> , 2020, 34, 988-1002.	1.0	6
407	Study on a novel PTFE membrane with regular geometric pore structures fabricated by near-field electrospinning, and its applications. <i>Journal of Membrane Science</i> , 2020, 603, 118014.	4.1	32
408	Permeability and Antifouling Augmentation of a Hybrid PVDF-PEG Membrane Using Nano-Magnesium Oxide as a Powerful Mediator for POME Decolorization. <i>Polymers</i> , 2020, 12, 549.	2.0	14
409	Oil-in-water separation with graphene-based nanocomposite membranes for produced water treatment. <i>Journal of Membrane Science</i> , 2020, 603, 118007.	4.1	144
410	Waste-water purification through a countercurrent system driven by supercritical carbon dioxide (SC-CO ₂). Part I: Experimental investigation and process evaluation. <i>Separation and Purification Technology</i> , 2020, 242, 116781.	3.9	5
411	Hydrophilic SiC hollow fiber membranes for low fouling separation of oil-in-water emulsions with high flux. <i>RSC Advances</i> , 2020, 10, 4832-4839.	1.7	25
412	Treatment of High-Concentration Wastewater from an Oil and Gas Field via a Paired Sequencing Batch and Ceramic Membrane Reactor. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1953.	1.2	22
413	All-cellulose composite membranes for oil microdroplet collection. <i>Cellulose</i> , 2020, 27, 4665-4677.	2.4	11
414	Robust Superhydrophobic Composite Featuring Three-Dimensional Porous Metal Rubber with an Embedded Carbon Nanofiber Network for Emulsion Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6172-6182.	1.8	24
415	Polymeric Membranes Incorporated With ZnO Nanoparticles for Membrane Fouling Mitigation: A Brief Review. <i>Frontiers in Chemistry</i> , 2020, 8, 224.	1.8	74
416	Innovative Optical-Sensing Technology for the Online Fouling Characterization of Silicon Carbide Membranes during the Treatment of Oily Water. <i>Sensors</i> , 2020, 20, 1161.	2.1	5
417	Zwitterionic nanogels modified nanofibrous membrane for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2020, 612, 118379.	4.1	55
418	Photocatalytic membrane filtration and its advantages over conventional approaches in the treatment of oily wastewater: A review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2533.	0.8	48
419	Visible-Light-Activated Photocatalytic Films toward Self-Cleaning Membranes. <i>Advanced Functional Materials</i> , 2020, 30, 2002847.	7.8	74
420	Aerogels for the separation of asphalt-containing oil-water mixtures and the effect of asphalt stabilizer. <i>RSC Advances</i> , 2020, 10, 24840-24846.	1.7	11

#	ARTICLE	IF	CITATIONS
421	Cupric phosphate mineralized polymer membrane with superior cycle stability for oil/water emulsion separation. <i>Journal of Membrane Science</i> , 2020, 612, 118427.	4.1	56
422	Micro-/nanostructures meet anisotropic wetting: from preparation methods to applications. <i>Materials Horizons</i> , 2020, 7, 2566-2595.	6.4	58
423	Fabrication of polycarbonate ultrafiltration mixed matrix membranes including modified halloysite nanotubes and graphene oxide nanosheets for olive oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 251, 117332.	3.9	47
424	Facile hydrophilic modification of PVDF membrane with Ag/EGCG decorated micro/nanostructural surface for efficient oil-in-water emulsion separation. <i>Chemical Engineering Journal</i> , 2020, 402, 126200.	6.6	103
425	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2020, 612, 118476.	4.1	97
426	Bioinspired superwetting fibrous skin with hierarchical roughness for efficient oily water separation. <i>Science of the Total Environment</i> , 2020, 744, 140822.	3.9	30
427	Membrane-Based Processes Used in Municipal Wastewater Treatment for Water Reuse: State-Of-The-Art and Performance Analysis. <i>Membranes</i> , 2020, 10, 131.	1.4	55
428	Internal fouling during microfiltration with foulants of different surface charges. <i>Journal of Membrane Science</i> , 2020, 602, 117983.	4.1	23
429	Superhydrophobic paper with mussel-inspired polydimethylsiloxane-silica nanoparticle coatings for effective oil/water separation. <i>RSC Advances</i> , 2020, 10, 8008-8015.	1.7	31
430	Incorporation of UiO-66-NH ₂ into modified PAN nanofibers to enhance adsorption capacity and selectivity for oil removal. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	18
431	Intensification of the ultrafiltration of real oil-contaminated (produced) water with pre-ozonation and/or with TiO ₂ , TiO ₂ /CNT nanomaterial-coated membrane surfaces. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22195-22205.	2.7	28
432	Multifunctional Edge-Activated Carbon Nitride Nanosheet-Wrapped Polydimethylsiloxane Sponge Skeleton for Selective Oil Absorption and Photocatalysis. <i>ACS Omega</i> , 2020, 5, 4181-4190.	1.6	30
433	Enhanced dispersibility of metal-organic frameworks (MOFs) in the organic phase via surface modification for TFN nanofiltration membrane preparation. <i>RSC Advances</i> , 2020, 10, 4045-4057.	1.7	75
434	Fabrication of hyperbranched polyether demulsifier modified PVDF membrane for demulsification and separation of oil-in-water emulsion. <i>Journal of Membrane Science</i> , 2020, 602, 117974.	4.1	70
435	Superhydrophobic and superoleophilic polyethylene aerogel coated natural rubber latex foam for oil-water separation application. <i>Polymer Testing</i> , 2020, 85, 106451.	2.3	46
436	Designing Flexible and Porous Fibrous Membranes for Oil Water Separation—A Review of Recent Developments. <i>Polymer Reviews</i> , 2020, 60, 671-716.	5.3	66
437	Membrane fouling in microfiltration of alkali/surfactant/polymer flooding oilfield wastewater: Effect of interactions of key foulants. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 20-30.	5.0	33
438	Potential use of green TiO ₂ and recycled membrane in a photocatalytic membrane reactor for oil refinery wastewater polishing. <i>Journal of Cleaner Production</i> , 2020, 257, 120526.	4.6	27

#	ARTICLE	IF	CITATIONS
439	Corrosion-Resistant Hydrophobic MFI-Type Zeolite-Coated Mesh for Continuous Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3498-3510.	1.8	22
440	Polymer genome-based prediction of gas permeabilities in polymers. <i>Journal of Polymer Engineering</i> , 2020, 40, 451-457.	0.6	28
441	Excellent oil/water separation performance of poly(styrene-co-maleic anhydride)/fluorocarbon surfactant membrane filter with functionalized multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48977.	1.3	5
442	Enhanced performance of salt-induced Pluronic F127 and bentonite blended polyvinyl chloride ultrafiltration membrane for the processing of oilfield produced water. <i>Journal of Water Process Engineering</i> , 2020, 34, 101144.	2.6	25
443	A Review on Membrane Technology and Chemical Surface Modification for the Oily Wastewater Treatment. <i>Materials</i> , 2020, 13, 493.	1.3	124
444	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	4.0	177
445	Simultaneous rational design of ion separation membranes and processes. <i>Journal of Membrane Science</i> , 2020, 600, 117860.	4.1	29
446	Superhydrophobic-superoleophilic SiC membranes with micro-nano hierarchical structures for high-efficient water-in-oil emulsion separation. <i>Journal of Membrane Science</i> , 2020, 601, 117842.	4.1	60
447	COD removal from industrial spent caustic wastewater: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103678.	3.3	41
448	Efficiency of a coagulation/flocculation-membrane filtration hybrid process for the treatment of vegetable oil refinery wastewater for safe reuse and recovery. <i>Chemical Engineering Research and Design</i> , 2020, 135, 323-341.	2.7	53
449	Underwater Superoleophobic and Salt-Tolerant Sodium Alginate-N-Succinyl Chitosan Composite Aerogel for Highly Efficient Oil/Water Separation. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1124-1133.	2.0	34
450	Immobilisation of synthesised TiO ₂ nanosheets onto the surface of the mesh and its modification effect on the wettability behaviour. <i>International Journal of Environmental Analytical Chemistry</i> , 0, 1-11.	1.8	0
451	Smart ZIF-L mesh films with switchable superwettability synthesized via a rapid energy-saving process. <i>Separation and Purification Technology</i> , 2020, 240, 116647.	3.9	24
452	Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. <i>Advanced Functional Materials</i> , 2020, 30, 2002192.	7.8	116
453	Environmentally friendly superhydrophobic osmanthus flowers for oil spill cleanup. <i>Applied Materials Today</i> , 2020, 19, 100607.	2.3	9
454	Mitigating the fouling of mixed-matrix cellulose acetate membranes for oil/water separation through modification with polydopamine particles. <i>Chemical Engineering Research and Design</i> , 2020, 159, 195-204.	2.7	33
455	Non-Isothermal Treatment of Oily Waters Using Ceramic Membrane: A Numerical Investigation. <i>Energies</i> , 2020, 13, 2092.	1.6	7
457	Enhanced Oil Adsorption and Nano-Emulsion Separation of Nanofibrous Aerogels by Coordination of Pomelo Peel-Derived Biochar. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8825-8835.	1.8	38

#	ARTICLE	IF	CITATIONS
458	Environmental and process assessment of a vibratory nanofiltration system for the recovery of water from soluble coffee manufacturing waste. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, e13425.	1.3	4
459	A Review on Current Development of Membranes for Oil Removal from Wastewaters. <i>Membranes</i> , 2020, 10, 65.	1.4	50
460	Wax removal from textile wastewater using an innovative hybrid baffle tank. <i>Journal of the Textile Institute</i> , 2021, 112, 223-232.	1.0	2
461	A superwetable functionalized-fabric with pH-sensitivity for controlled oil/water, organic solvents separation, and selective oil collection from water-rich system. <i>Separation and Purification Technology</i> , 2021, 254, 117665.	3.9	21
462	Recent development of graphene oxide-based membranes for oil-water separation: A review. <i>Separation and Purification Technology</i> , 2021, 258, 118000.	3.9	80
463	Recent advances in the removal of pharmaceuticals and endocrine-disrupting compounds in the aquatic system: A case of polymer inclusion membranes. <i>Journal of Hazardous Materials</i> , 2021, 406, 124317.	6.5	45
464	Hybrid application of advanced oxidation processes to dyes removal. , 2021, , 209-238.		5
465	Porous asymmetric microfiltration membranes shaped by combined alumina freeze and tape casting. <i>Journal of the European Ceramic Society</i> , 2021, 41, 871-879.	2.8	5
466	Highly reusable Cu ₂ O/PP fibrous membranes for oil/water separation. <i>Soft Materials</i> , 2021, 19, 168-177.	0.8	8
467	Nanofiltration of saline oil-water emulsions: Combined and individual effects of salt concentration polarization and fouling by oil. <i>Journal of Membrane Science</i> , 2021, 617, 118607.	4.1	10
468	Metal-organic framework membranes: Recent development in the synthesis strategies and their application in oil-water separation. <i>Chemical Engineering Journal</i> , 2021, 405, 127004.	6.6	147
469	Homogeneous extraction for sustainable separation of emulsified oily wastewater by using CO ₂ switchable solution. <i>Separation and Purification Technology</i> , 2021, 254, 117566.	3.9	12
470	Fabrication of superhydrophilic PVDF membranes by one-step modification with eco-friendly phytic acid and polyethyleneimine complex for oil-in-water emulsions separation. <i>Chemosphere</i> , 2021, 264, 128395.	4.2	61
471	Insight into the Estimation of Equilibrium CO ₂ Absorption by Deep Eutectic Solvents using Computational Approaches. <i>Separation Science and Technology</i> , 2021, 56, 2351-2368.	1.3	11
472	Flexible cement-sand coated cotton fabrics with superhydrophilic and underwater superoleophobic wettability for the separation of water/oil mixtures and oil-in-water emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125611.	2.3	18
473	Eco-facile application of electrospun nanofibers to the oil-water emulsion separation via coalescing filtration in pilot- scale and beyond. <i>Chemical Engineering Research and Design</i> , 2021, 148, 342-357.	2.7	17
474	Eco-friendly and one-step modification of poly(vinylidene fluoride) membrane with underwater superoleophobicity for effective emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125939.	2.3	11
475	Graft copolymerization of zwitterionic monomer on the polyethersulfone membrane surface by corona air plasma for separation of oily wastewater. <i>Separation and Purification Technology</i> , 2021, 258, 117939.	3.9	37

#	ARTICLE	IF	CITATIONS
476	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
477	Superhydrophilic and underwater superoleophobic nano zeolite membranes for efficient oil-in-water nanoemulsion separation. <i>Journal of Water Process Engineering</i> , 2021, 40, 101802.	2.6	20
478	Techno-economic assessment of minimal liquid discharge (MLD) treatment systems for saline wastewater (brine) management and treatment. <i>Chemical Engineering Research and Design</i> , 2021, 146, 656-669.	2.7	68
479	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
480	Study of highly furfural-containing refinery wastewater streams using a conventional homogeneous Fenton process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104894.	3.3	13
481	Hierarchical WO ₃ @Cu(OH) ₂ nanorod arrays grown on copper mesh with superwetting and self-cleaning properties for high-performance oil/water separation. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157421.	2.8	35
482	Microalgae cultivation in wastewater and potential processing strategies using solvent and membrane separation technologies. <i>Journal of Water Process Engineering</i> , 2021, 39, 101701.	2.6	45
483	A novel monolithic mullite microfiltration membrane for oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2021, 620, 118857.	4.1	44
484	Fouling mitigation in produced water treatment by conjugation of advanced oxidation process and microfiltration. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12803-12816.	2.7	6
485	Poly (vinyl alcohol) modification of poly(vinylidene fluoride) microfiltration membranes for oil/water emulsion separation via an unconventional radiation method. <i>Journal of Membrane Science</i> , 2021, 619, 118792.	4.1	69
486	Development of membranes with well-dispersed polyampholytic copolymer via a composite coagulation process. <i>Journal of Membrane Science</i> , 2021, 620, 118848.	4.1	10
487	Use of membrane distillation for oily wastewater treatment – A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104641.	3.3	91
488	Inkjet printing of dopamine followed by UV light irradiation to modify mussel-inspired PVDF membrane for efficient oil-water separation. <i>Journal of Membrane Science</i> , 2021, 619, 118790.	4.1	149
489	Hierarchical amphiphilic <sc>high efficiency oil-water separation membranes from fermentation derived cellulose and recycled polystyrene. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50123.	1.3	1
490	Superwetable membrane with hierarchical porosity for simultaneous separation of emulsions and removal of nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125798.	2.3	5
491	Increased performance and antifouling of mixed-matrix membranes of cellulose acetate with hydrophilic nanoparticles of polydopamine-sulfobetaine methacrylate for oil-water separation. <i>Journal of Membrane Science</i> , 2021, 620, 118881.	4.1	103
492	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
493	Twofold bioinspiration of TiO ₂ -PDA hybrid fabrics with desirable robustness and remarkable polar/nonpolar liquid separation performance. <i>Frontiers of Materials Science</i> , 2021, 15, 124-137.	1.1	5

#	ARTICLE	IF	CITATIONS
494	Polyvinylidene Fluoride Membrane Via Vapour Induced Phase Separation for Oil/Water Emulsion Filtration. <i>Polymers</i> , 2021, 13, 427.	2.0	19
495	Integrated and hybrid processes for oily wastewater treatment. , 2021, , 313-337.		0
496	Modifying Cellulose Acetate Mixed-Matrix Membranes for Improved Oil/Water Separation: Comparison between Sodium and Organo-Montmorillonite as Particle Additives. <i>Membranes</i> , 2021, 11, 80.	1.4	28
497	Cellulose acetate/fiber paper composite membrane for separation of an oil-in-water emulsion. <i>New Journal of Chemistry</i> , 2021, 45, 12351-12355.	1.4	11
498	Oil/water separation membranes with a fluorine island structure for stable high flux. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6905-6912.	5.2	19
499	Carbon-based nanocomposite membranes for water purification. , 2021, , 555-574.		5
500	Detection of oil/water interface based on laser-induced breakdown spectroscopy. <i>Laser Physics</i> , 2021, 31, 025703.	0.6	1
501	Evaluation of Macroalgal Biomass for Removal of Hazardous Organic Dyes from Wastewater. <i>Sustainable Textiles</i> , 2021, , 195-215.	0.4	9
502	<i>In situ</i> chemical oxidation: peroxide or persulfate coupled with membrane technology for wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11944-11960.	5.2	69
503	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for Nonfouling Emulsion Separation via Coalescence Demulsification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4731-4739.	4.0	36
504	Diffusion analysis with high and low concentration regions by the finite difference method, the adaptive network-based fuzzy inference system, and the bilayered neural network method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1392-1399.	1.5	0
505	Wastewater treatment by membrane bioreactor as potent and advanced technology. , 2021, , 45-72.		1
506	Catalytic membranes for the treatment of oily wastewater. , 2021, , 73-95.		0
507	Hydrogel as a Superwetting Surface Design Material for Oil/Water Separation: A Review. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002030.	1.9	43
508	Salt-induced and alcohol-induced hydrophobic and underoil superhydrophobic poly (vinylidene fluoride) membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 104714.	3.3	7
509	Development of Red Clay Ultrafiltration Membranes for Oil-Water Separation. <i>Crystals</i> , 2021, 11, 248.	1.0	7
510	Hydrodynamic and Performance Evaluation of a Porous Ceramic Membrane Module Used on the Water/Oil Separation Process: An Investigation by CFD. <i>Membranes</i> , 2021, 11, 121.	1.4	8
511	Improvement in microfiltration process of oily wastewater: A comprehensive review over two decades. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104981.	3.3	50

#	ARTICLE	IF	CITATIONS
512	Influence of deposited amine-functionalized Si-MCM-41 in polyacrylonitrile electrospun membranes applied for separation of water in oil emulsions. Journal of Applied Polymer Science, 2021, 138, 50737.	1.3	4
513	Ozonation-assisted electro-membrane hybrid reactor for oily wastewater treatment: A methodological approach and synergy effects. Journal of Cleaner Production, 2021, 289, 125764.	4.6	29
514	In situ biomineralization-constructed superhydrophilic and underwater superoleophobic PVDF-TiO ₂ membranes for superior antifouling separation of oil-in-water emulsions. Journal of Membrane Science, 2021, 622, 119030.	4.1	55
515	Modeling oil-water separation with controlled wetting properties. Journal of Chemical Physics, 2021, 154, 104704.	1.2	2
516	Carbon nanotube promoted porous nanocomposite based on PVA and recycled PET fibers for efficient oil spills cleanup applications. Chemical Papers, 2021, 75, 3443-3456.	1.0	10
517	Wettable and Flexible Silica Nanofiber/Bead-Based Membranes for Separation of Oily Wastewater. ACS Applied Nano Materials, 2021, 4, 2952-2962.	2.4	24
518	Gravity assisted super high flux microfiltration polyamide-imide membranes for oil/water emulsion separation. Journal of Membrane Science, 2021, 621, 119019.	4.1	40
519	Water-Oil Separation Process Using a Porous Ceramic Membrane Module: An Investigation by CFD. Defect and Diffusion Forum, 0, 407, 22-30.	0.4	0
520	The Role of Membrane-Based Technologies in Environmental Treatment and Reuse of Produced Water. Frontiers in Environmental Science, 2021, 9, .	1.5	17
521	Zeolitic Imidazolate Framework ZIF-zni nanocrystals used for oil-water separation. Current Nanomaterials, 2021, 06, .	0.2	0
522	Application of ultrafiltration ceramic membrane for separation of oily wastewater generated by maritime transportation. Separation and Purification Technology, 2021, 261, 118259.	3.9	53
523	Effects of surfactants and oil-in-water emulsions on reverse osmosis membrane performance. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 1.	0.6	5
524	Oily Wastewater Treatment: Overview of Conventional and Modern Methods, Challenges, and Future Opportunities. Water (Switzerland), 2021, 13, 980.	1.2	126
525	Tailoring asymmetric Al ₂ O ₃ membranes by combining tape casting and phase inversion. Journal of Membrane Science, 2021, 623, 119056.	4.1	17
526	Demulsification performance of oil-in-water emulsion in bidirectional pulsed electric field with starlike electrodes arrangement. Journal of Dispersion Science and Technology, 0, , 1-12.	1.3	2
527	Interfacial characteristics in membrane filtration for oil-in-water treatment processes. Journal of Membrane Science, 2021, 623, 119092.	4.1	13
528	Fabrication and characterization of a cross-linked two-layer polyetherimide solvent-resistant ultrafiltration (SRUF) membrane for separation of toluene-water mixture. Chemical Engineering Research and Design, 2021, 168, 59-70.	2.7	14
529	Green preparation of thermal and solvent resistant poly (tetrafluoroethylene-co-perfluoropropylvinyl) Tj ETQq1 1 0.784314 rgBT /Ov 138, 50798.	1.3	2

#	ARTICLE	IF	CITATIONS
530	Meta-Separation: Complete Separation of Organic-Water Mixtures by Structural Property of Metamaterial. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100184.	1.9	2
531	Treatment of industrial oily wastewater by advanced technologies: a review. <i>Applied Water Science</i> , 2021, 11, 1.	2.8	105
532	Effect of Membrane Materials and Operational Parameters on Performance and Energy Consumption of Oil/Water Emulsion Filtration. <i>Membranes</i> , 2021, 11, 370.	1.4	12
533	Pressure Response through Valve for Continuous Oil-Water Separation Based on a Flexible Superhydrophobic/Superoleophilic Thermoplastic Vulcanizate Film. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000745.	1.7	5
534	Mechanisms for Direct Separation of Oil from Water with Hydrophobic Hollow Fiber Membrane Contactors. <i>ACS ES&T Engineering</i> , 2021, 1, 1074-1083.	3.7	10
535	Superwetting Bi ₂ MoO ₆ /Cu ₃ (PO ₄) ₂ Nanosheet-Coated Copper Mesh with Superior Anti-Oil-Fouling and Photo-Fenton-like Catalytic Properties for Effective Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23662-23674.	4.0	40
536	An overview of superhydrophobic ceramic membrane surface modification for oil-water separation. <i>Journal of Materials Research and Technology</i> , 2021, 12, 643-667.	2.6	90
537	Functionalized multi-walled carbon nanotubes for oil spill cleanup from water. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 519-541.	2.1	20
538	New emerging review on advances in block copolymer based water purification membranes. <i>Journal of Molecular Structure</i> , 2021, 1231, 129926.	1.8	10
539	Processing of chestnut rose juice using three-stage ultra-filtration combined with high pressure processing. <i>LWT - Food Science and Technology</i> , 2021, 143, 111127.	2.5	13
540	Application of Capillary Polypropylene Membranes for Microfiltration of Oily Wastewaters: Experiments and Modeling. <i>Fibers</i> , 2021, 9, 35.	1.8	8
541	Nanopore-based active oil droplet filtration under negative DC dielectrophoresis for oily wastewater treatment. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 345302.	1.3	5
542	Superhydrophobic and superoleophilic membranes for oil-water separation application: A comprehensive review. <i>Materials and Design</i> , 2021, 204, 109599.	3.3	239
543	Fabrication of superhydrophilic and underwater superoleophobic CuxO/TiO ₂ mesh for oil-water separation. <i>Results in Physics</i> , 2021, 25, 104257.	2.0	9
545	Collagen fiber membrane-derived chemically and mechanically durable superhydrophobic membrane for high-performance emulsion separation. <i>Journal of Leather Science and Engineering</i> , 2021, 3, .	2.7	33
546	A review of treatment technologies for produced water in offshore oil and gas fields. <i>Science of the Total Environment</i> , 2021, 775, 145485.	3.9	110
547	Antiviral Nanomaterials for Designing Mixed Matrix Membranes. <i>Membranes</i> , 2021, 11, 458.	1.4	16
548	The Perspective and Challenge of Nanomaterials in Oil and Gas Wastewater Treatment. <i>Molecules</i> , 2021, 26, 3945.	1.7	7

#	ARTICLE	IF	CITATIONS
549	Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. <i>Molecules</i> , 2021, 26, 3331.	1.7	26
550	Impact of graphitic carbon nitride nanosheets in mixed- matrix membranes for removal of heavy metals from water. <i>Journal of Water Process Engineering</i> , 2021, 41, 102026.	2.6	23
551	A Mini-Review of Enhancing Ultrafiltration Membranes (UF) for Wastewater Treatment: Performance and Stability. <i>ChemEngineering</i> , 2021, 5, 34.	1.0	26
552	Permeability Behavior and Wastewater Filtration Performance of Mullite Bonded Porous SiC Ceramic Membrane Prepared Using Coal Fly Ash as Sintering Additive. <i>Transactions of the Indian Ceramic Society</i> , 2021, 80, 186-192.	0.4	7
553	Metal-Organic Framework-Based Hierarchically Porous Materials: Synthesis and Applications. <i>Chemical Reviews</i> , 2021, 121, 12278-12326.	23.0	633
554	Integration of coagulation and ozonation with flat-sheet ceramic membrane filtration for shale gas hydraulic fracturing wastewater treatment: A laboratory study. <i>Water Environment Research</i> , 2021, 93, 2298-2307.	1.3	3
555	Role of polydopamine in the enhancement of binding stability of TiO ₂ nanoparticles on polyethersulfone ultrafiltration membrane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 622, 126694.	2.3	21
556	Processing and microstructure-permeation properties of silica bonded silicon carbide ceramic membrane. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7525-7532.	2.8	8
557	Underwater superoleophobic cement-alumina coated meshes for oil/water and emulsion separation. <i>Journal of Dispersion Science and Technology</i> , 0, , 1-8.	1.3	1
558	Design, Development, and Outlook of Superwettability Membranes in Oil/Water Emulsions Separation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100799.	1.9	27
559	Meta-separation: Improvement of Properties by Molecular Design of Metamaterials for Organophosphorous Flame Retardants. <i>ChemistrySelect</i> , 2021, 6, 8011-8015.	0.7	1
560	Preparation of Hydrophobic PET Track-Etched Membranes for Separation of Oil-Water Emulsion. <i>Membranes</i> , 2021, 11, 637.	1.4	18
561	Evaluation of Sulfonic Cellulose Membranes on Oil-Water Separation: Performance and Modeling of Flux. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13013-13022.	1.8	1
562	Study of crystal structure and properties of poly(vinylidene fluoride)/graphene composite fibers. <i>Polymer International</i> , 0, , .	1.6	5
563	Performance evaluation and modeling study of PC blended membranes incorporated with SDS-modified and unmodified halloysite nanotubes in the separation of oil from water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105237.	3.3	10
564	Biocellulose for Treatment of Wastewaters Generated by Energy Consuming Industries: A Review. <i>Energies</i> , 2021, 14, 5066.	1.6	18
565	Structure Optimization of a High-Temperature Oxygen-Membrane Module Using Finite Element Analysis. <i>Energies</i> , 2021, 14, 4992.	1.6	0
566	Preparation of a recyclable demulsifier for the treatment of emulsified oil wastewater by chitosan modification and sodium oleate grafting Fe ₃ O ₄ . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105663.	3.3	24

#	ARTICLE	IF	CITATIONS
567	Status of the treatment of produced water containing polymer in oilfields: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105303.	3.3	41
568	A new fouling resistance polyethersulfone ultrafiltration membrane embedded by metformin-modified FSM-16: Fabrication, characterization and performance evaluation in emulsified oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105386.	3.3	19
569	Photocatalytic ultrafiltration membrane reactors in water and wastewater treatment - A review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 165, 108445.	1.8	34
570	A novel analytical approach for the estimation of shear in the oscillatory membrane microfiltration. <i>Environmental Challenges</i> , 2021, 4, 100066.	2.0	2
571	A robust copper oxide-based superhydrophobic microfiltration membrane for moisture-proof treatment of trace water in transformer oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126843.	2.3	6
572	Nanoenhanced Photocatalytic Approach for Separation of Oily Emulsion from Aqueous Effluents: Recent Trends, Future Perspective and Challenges. <i>Green Chemistry and Sustainable Technology</i> , 2022, , 565-601.	0.4	1
573	Photocatalysis: Introduction, Mechanism, and Effective Parameters. <i>Green Chemistry and Sustainable Technology</i> , 2022, , 3-31.	0.4	1
574	Influence of Membrane Vibration on Particles Rejection Using a Slotted Pore Membrane Microfiltration. <i>Membranes</i> , 2021, 11, 709.	1.4	5
575	Synthesis and characterization of superoleophobic fumed alumina nanocomposite coated via the sol-gel process onto ceramic-based hollow fibre membrane for oil-water separation. <i>Ceramics International</i> , 2021, 47, 25883-25894.	2.3	7
576	Fabrication and characterization of ECTFE hollow fiber membranes via low-temperature thermally induced phase separation (L-TIPS). <i>Journal of Membrane Science</i> , 2021, 634, 119429.	4.1	19
577	Spider silk bioinspired superhydrophilic nanofibrous membrane for efficient oil/water separation of nanoemulsions. <i>Separation and Purification Technology</i> , 2022, 280, 119824.	3.9	35
578	Pseudo-zwitterions self-assembled from polycation and anion clusters showing exceptional water-cleanable anti-crude-oil-adhesion property. <i>IScience</i> , 2021, 24, 102964.	1.9	4
579	A critical review in electrocoagulation technology applied for oil removal in industrial wastewater. <i>Chemosphere</i> , 2022, 288, 132355.	4.2	63
580	Fabrication of a durable coral-like superhydrophilic MgO coating on stainless steel mesh for efficient oil/water separation. <i>Chemical Engineering Science</i> , 2022, 248, 117144.	1.9	16
581	Polyvinylidene fluoride-cellulose nanocrystals hybrid nanofiber membrane for energy harvesting and oil-water separation applications. <i>Materials Letters</i> , 2022, 306, 130965.	1.3	20
582	In-situ construction of MOFs-based superhydrophobic/superoleophilic coating on filter paper with self-cleaning and antibacterial activity for efficient oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126976.	2.3	35
583	Comprehensive Electrokinetic-Assisted Separation of Oil Emulsion with Ultrahigh Flux. <i>ACS Nano</i> , 2021, 15, 15815-15823.	7.3	20
584	Fabrication of high-performance pervaporation composite membrane for alkaline wastewater reclamation. <i>Frontiers of Chemical Science and Engineering</i> , 0, , 1.	2.3	1

#	ARTICLE	IF	CITATIONS
585	Modeling and fouling control in a hybrid membrane process using CuO-catalytic membrane coupled to ozone. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106138.	3.3	8
586	Ultralight and superhydrophobic perfluorooctyltrimethoxysilane modified biomass carbonaceous aerogel for oil-spill remediation. <i>Chemical Engineering Research and Design</i> , 2021, 174, 71-78.	2.7	8
587	Recent development of photocatalytic nanomaterials in mixed matrix membrane for emerging pollutants and fouling control, membrane cleaning process. <i>Chemosphere</i> , 2021, 281, 130891.	4.2	41
588	Development of a facile and robust silicomanganese slag-based geopolymer membrane for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127072.	2.3	14
589	Eco-friendly self-crosslinking cellulose membrane with high mechanical properties from renewable resources for oil/water emulsion separation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105857.	3.3	44
590	Novel in-situ electroflotation driven by hydrogen evolution reaction (HER) with polypyrrole (PPy)-Ni-modified fabric membrane for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2021, 635, 119502.	4.1	60
591	A review of organic-inorganic hybrid clay based adsorbents for contaminants removal: Synthesis, perspectives and applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105808.	3.3	59
592	Fabrication of conductive ceramic membranes for electrically assisted fouling control during membrane filtration for wastewater treatment. <i>Chemosphere</i> , 2021, 280, 130794.	4.2	22
593	Facile fabrication of superhydrophilic and underwater superoleophobic nanofiber membranes for highly efficient separation of oil-in-water emulsion. <i>Separation and Purification Technology</i> , 2021, 272, 118954.	3.9	28
594	Laser-synthesized Ag/TiO nanoparticles to integrate catalytic pollutant degradation and antifouling enhancement in nanofibrous membranes for oil-water separation. <i>Applied Surface Science</i> , 2021, 564, 150471.	3.1	17
595	Superhydrophobic modification of the surface of cellulosic materials based on honeycomb-like zinc oxide structures and their application in oil-water separation. <i>Applied Surface Science</i> , 2021, 563, 150291.	3.1	27
596	A highly reusable polydimethylsiloxane sorbents for oil/organic solvent clean-up from water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106002.	3.3	18
597	Membrane fouling mitigation techniques for oily wastewater: A short review. <i>Journal of Water Process Engineering</i> , 2021, 43, 102293.	2.6	52
598	Superwetting PVDF membrane prepared by in situ extraction of metal ions for highly efficient oil/water mixture and emulsion separation. <i>Separation and Purification Technology</i> , 2021, 275, 119174.	3.9	30
599	Ultralow Ti3C2TX doping polysulfate membrane for high ultrafiltration performance. <i>Journal of Membrane Science</i> , 2021, 637, 119603.	4.1	15
600	Electrically conductive hydrophobic membrane cathode for membrane distillation with super anti-oil-fouling capability: Performance and mechanism. <i>Desalination</i> , 2021, 516, 115199.	4.0	24
601	Rational design of multifunctional membrane material with underwater superoleophobicity for dye contaminated emulsion separation. <i>Journal of Membrane Science</i> , 2021, 639, 119716.	4.1	27
602	Preparation of demulsifying functional membrane and its application in separation of emulsified oil. <i>Separation and Purification Technology</i> , 2021, 276, 119299.	3.9	7

#	ARTICLE	IF	CITATIONS
603	Numerical simulation of fluid flow and desalination effects in ceramic membrane channels. <i>Desalination</i> , 2021, 519, 115304.	4.0	5
604	Bio-based multifunctional carbon aerogels from sugarcane residue for organic solvents adsorption and solar-thermal-driven oil removal. <i>Chemical Engineering Journal</i> , 2021, 426, 129580.	6.6	70
605	Recent Advances in Polymer-based 3D Printing for Wastewater Treatment Application: An Overview. <i>Chemical Engineering Journal</i> , 2022, 429, 132311.	6.6	47
606	Cracked-earth-like titanium carbide MXene membranes with abundant hydroxyl groups for oil-in-water emulsion separation. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 378-388.	5.0	32
607	Paper-based dual-mode liquid manipulation system: Oil/water separation and time-lapse droplet switch. <i>Chemical Engineering Journal</i> , 2022, 427, 131606.	6.6	12
608	Synthesis of polydopamine coated tungsten oxide@ poly(vinylidene fluoride-co-hexafluoropropylene) electrospun nanofibers as multifunctional membranes for water applications. <i>Chemical Engineering Journal</i> , 2022, 427, 131021.	6.6	37
609	Industrial wastewater treatment by membrane process. , 2021, , 341-365.		1
610	Preparation of caffeic acid-polyethyleneimine modified sponge for emulsion separation and dye adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 118, 325-333.	2.7	19
611	CERAMIC MEMBRANES: NEW TRENDS AND PROSPECTS (SHORT REVIEW). <i>Water and Water Purification Technologies Scientific and Technical News</i> , 2020, 27, 4-31.	0.1	5
612	Cellulose nanospheres coated polylactic acid nonwoven membranes for recyclable use in oil/water separation. <i>Cellulose</i> , 2021, 28, 11417.	2.4	1
613	A Facile Method to Control Pore Structure of PVDF/SiO ₂ Composite Membranes for Efficient Oil/Water Purification. <i>Membranes</i> , 2021, 11, 803.	1.4	8
614	Biological Versus Physicochemical Technologies for Industrial Sewage Treatment: Which Is the Most Efficient and Inexpensive?. , 0, , .		0
615	Hydroxyapatite-Based Materials for Environmental Remediation. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022, , 55-100.	0.7	0
616	Study of the influence of the aluminum source (acetate or sulfate) on the synthesis of the ceramic membrane and applications of emulsion oil water: use and reuse. <i>Research, Society and Development</i> , 2021, 10, e75101321023.	0.0	1
617	Combination of an Asphalt Stabilizer and a Cellulose-Chitosan Composite Aerogel Used for the Separation of Oil-Water Mixtures Containing Asphalt. <i>ACS Omega</i> , 2021, 6, 29588-29595.	1.6	7
618	Membrana cerâmica de baixo custo para tratamento de efluentes oleosos. <i>Research, Society and Development</i> , 2021, 10, e253101321071.	0.0	0
620	Removal of BP-3 Endocrine Disrupting Chemical (EDC) using cellulose acetate and ZnO nano particles mixed matrix membranes. <i>Membrane Water Treatment</i> , 2016, 7, 507-520.	0.5	0
621	Preparation and Characterization of TiO ₂ -LaFeO ₃ based Mixed Matrix Membrane for Oily Wastewater Treatment. <i>Journal of Applied Membrane Science & Technology</i> , 2017, 20, .	0.3	0

#	ARTICLE	IF	CITATIONS
622	Separation of Oil from Water Using Porous PDMS Capsules. Journal of the Korean Society for Precision Engineering, 2018, 35, 797-801.	0.1	0
623	Superhydrophobic Aerogel as Sorbents for Iraqi Crude Oil Leaked In Water. Mustansiriyah Journal of Science, 2019, 29, 124.	0.2	0
624	Pilot Tests and Fouling Identification in the Ultrafiltration of Model Oily and Saline Wastewaters. Ecological Chemistry and Engineering S, 2019, 26, 493-507.	0.3	1
625	Oil and petrochemical industries wastewater treatment in bioelectrochemical systems. , 2020, , 157-173.		2
626	A review on metal organic frameworks (MOFs) modified membrane for remediation of water pollution. Environmental Engineering Research, 0, , .	1.5	6
627	Superhydrophilic and Photothermal Fe-TCPP Nanofibrous Membrane for Efficient Oil-in-Water Nanoemulsion Separation. Langmuir, 2021, 37, 12981-12989.	1.6	13
628	Current and Future Use of Membrane Technology in the Traditional Chinese Medicine Industry. Separation and Purification Reviews, 2022, 51, 484-502.	2.8	10
629	Mil-53(Fe)-loaded polyacrylonitrile membrane with superamphiphilicity and double hydrophobicity for effective emulsion separation and photocatalytic dye degradation. Separation and Purification Technology, 2022, 282, 119910.	3.9	37
630	Hydrophilic and underwater superoleophobic porous graphitic carbon nitride (g-C ₃ N ₄) membranes with photo-Fenton self-cleaning ability for efficient oil/water separation. Journal of Colloid and Interface Science, 2022, 608, 1960-1972.	5.0	55
631	Multifunctional oxidized poly (arylene sulfide sulfone)/UiO-66 nanofibrous membrane with efficient adsorption/separation ability in harsh environment. Chemical Engineering Journal, 2022, 430, 133021.	6.6	19
632	Membrane distillation for recovery of textile wastewaters: Determination of operational conditions with PTFE membrane and high dye concentrations. AIP Conference Proceedings, 2020, , .	0.3	1
633	Electrospun nanofiber composite membranes based on cellulose acetate/nano-zeolite for the removal of oil from oily wastewater. Emergent Materials, 2022, 5, 145-153.	3.2	8
634	Delamination-Free In-Air and Underwater Oil-Repellent Filters for Oil-Water Separation: Gravity-Driven and Cross-Flow Operations. Energies, 2021, 14, 7429.	1.6	4
635	è ¢æ²¹æ€\$ãfŠãfŽãf•ã,;ã,ãfãf¼è†œã«ã,^ã,ã¾¼©ã°æ²¹æ»ã@ã:ã,€ã^†é,¢ç%¹æ€\$. Journal of Textile Engineering, 2020, 66, 87-91.		
636	The gorgeous transformation of paper: from cellulose paper to inorganic paper to 2D paper materials with multifunctional properties. Journal of Materials Chemistry A, 2021, 10, 122-156.	5.2	19
637	Carbon Nanotube Membranes in Water Treatment Applications. Advanced Materials Interfaces, 2022, 9, 2101260.	1.9	39
638	Fabrication of modified PVDF membrane in the presence of PVI polymer and evaluation of its performance in the filtration process. Journal of Industrial and Engineering Chemistry, 2022, 106, 411-428.	2.9	16
639	Synthetic Approach to Rice Waste-Derived Carbon-Based Nanomaterials and Their Applications. Nanomanufacturing, 2021, 1, 109-159.	1.8	18

#	ARTICLE	IF	CITATIONS
640	Oil/water separation membranes with stable ultra-high flux based on the self-assembly of heterogeneous carbon nanotubes. <i>Journal of Membrane Science</i> , 2022, 644, 120148.	4.1	12
641	Batch and continuous of oil removal using organoclay and low-cost ceramic membrane. <i>Research, Society and Development</i> , 2021, 10, e215101522542.	0.0	1
642	Biomimetic nanofiltration membranes: Critical review of materials, structures, and applications to water purification. <i>Chemical Engineering Journal</i> , 2022, 433, 133823.	6.6	31
643	Significantly enhanced antifouling and separation capabilities of PVDF membrane by synergy of semi-interpenetrating polymer and TiO ₂ gel nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 108, 15-27.	2.9	16
644	State-of-the-Art Ceramic Membranes for Oily Wastewater Treatment: Modification and Application. <i>Membranes</i> , 2021, 11, 888.	1.4	22
645	Bench-scale oil fouling/antifouling tests under high temperature and high pressure conditions and the underlying interfacial interaction mechanisms. <i>Fuel</i> , 2021, 314, 122720.	3.4	5
646	Optimization of a High-Performance Poly(diallyl dimethylammonium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 507 Td (chloride)-alumina-pe Oily Wastewater via Response Surface Methodology Approach. <i>Membranes</i> , 2021, 11, 956.	1.4	5
647	Molecular insights on Ca ²⁺ /Na ⁺ separation via graphene-based nanopores: The role of electrostatic interactions to ionic dehydration. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 220-229.	1.7	3
648	Oil/Water Separation Membranes with Stable Ultra-High Flux Based on the Self-Assembly of Heterogeneous Carbon Nanotubes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
649	Introduction to Functional Membranes. <i>Chemistry in the Environment</i> , 2021, , 1-27.	0.2	1
650	Separating a multicomponent and multiphase liquid mixture with a 3D-printed membrane device. <i>RSC Advances</i> , 2021, 11, 40033-40039.	1.7	1
651	A soft and recyclable carbon nanotube/carbon nanofiber hybrid membrane for oil/water separation. <i>Journal of Applied Polymer Science</i> , 0, , 52133.	1.3	1
652	One-step fabrication of eco-friendly superhydrophobic fabrics for high-efficiency oil/water separation and oil spill cleanup. <i>Nanoscale</i> , 2022, 14, 1296-1309.	2.8	101
653	Preparation of seaweed polysaccharide based hydrophobic composite membranes for the separation of oil/water emulsion and protein. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 36-41.	3.6	12
654	Silicon carbide (SiC) membranes in Å“nology. <i>Separation and Purification Technology</i> , 2022, 284, 120276.	3.9	4
655	Fabrication of highly hydrophobic cotton-alpha zirconium phosphate nanosheets/nanoparticles for oil/water separation. <i>Materials Chemistry and Physics</i> , 2022, 278, 125636.	2.0	1
656	Bio-inspired hybrid coating of microporous polyethersulfone membranes by one-step deposition of polydopamine embedded with amino-functionalized SiO ₂ for high-efficiency oily wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107121.	3.3	12
657	Mapping the desalination journal: A systematic bibliometric study over 54Â“years. <i>Desalination</i> , 2022, 526, 115535.	4.0	27

#	ARTICLE	IF	CITATIONS
658	Hyperbranched polyethylenimine functionalized silica/polysulfone nanocomposite membranes for water purification. <i>Chemosphere</i> , 2022, 290, 133363.	4.2	43
659	Design of adjustable hypercrosslinked poly(ionic liquid)s for highly efficient oil-water separation. <i>Separation and Purification Technology</i> , 2022, 285, 120407.	3.9	10
660	Photoelectrocatalytic mechanism of PEDOT modified filtration membrane. <i>Science of the Total Environment</i> , 2022, 813, 152397.	3.9	5
661	Selective superantwetting/superwetting fluorine-free nanostructured ZnO/CuO mesh membrane for efficient separation of oil/water mixture: Oxygen vacancy-dependent wetting stability studies. <i>Surface and Coatings Technology</i> , 2022, 430, 127992.	2.2	14
662	Solvent Influenced Fragmentations in Free- α -Standing Three- α -Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. <i>Angewandte Chemie</i> , 0, , .	1.6	0
663	High-efficient novel super-wetting HKUST-1 membrane for oil-water separation: Development, characterization and performance. <i>Journal of Cleaner Production</i> , 2022, 333, 130109.	4.6	28
664	Experimental verification on real-time fouling analysis in crossflow UF of protein solutions by electrical impedance spectroscopy. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104197.	2.7	4
665	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
666	Study on Treatment of Low Concentration Oily Wastewater Using Alumina Ceramic Membranes. <i>Crystals</i> , 2022, 12, 127.	1.0	4
667	Heavy metal contamination in the river ecosystem. , 2022, , 37-50.		3
668	Superhydrophobic PDMS-pCA@CNWF Composite with UV-Resistant and Self-Cleaning Properties for Oil/Water Separation. <i>Materials</i> , 2022, 15, 376.	1.3	3
669	Solvent- α -Influenced Fragmentations in Free- α -Standing Three- α -Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
670	Fabrication of Polyvinylidene Difluoride Membrane with Enhanced Pore and Filtration Properties by Using Tannic Acid as an Additive. <i>Polymers</i> , 2022, 14, 186.	2.0	5
671	High-Resolution Numerical Simulation of Microfiltration of Oil-in-Water Emulsion Permeating through a Realistic Membrane Microporous Structure Generated by Focused Ion Beam Scanning Electron Microscopy Images. <i>Langmuir</i> , 2022, 38, 2094-2108.	1.6	11
672	Modified PVA membrane for separation of micro-emulsion. <i>Science of the Total Environment</i> , 2022, 822, 153610.	3.9	18
673	High-performance and robust polysulfone nanocomposite membrane containing 2D functionalized MXene nanosheets for the nanofiltration of salt and dye solutions. <i>Desalination</i> , 2022, 527, 115600.	4.0	30
674	Oilfield-produced water treatment using conventional and membrane-based technologies for beneficial reuse: A critical review. <i>Journal of Environmental Management</i> , 2022, 308, 114556.	3.8	38
675	Mussel-inspired fabrication of superhydrophobic cellulose-based paper for the integration of excellent antibacterial activity, effective oil/water separation and photocatalytic degradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128490.	2.3	17

#	ARTICLE	IF	CITATIONS
676	Super-Hydrophobic/Super-Oleophilic CNF-Embedded RF-ACF Composite Membrane for Effective Separation of Water-in-Oil Emulsion. SSRN Electronic Journal, 0, , .	0.4	0
677	Influence of the Pyrolysis Temperature and TiO ₂ -Incorporation on the Properties of SiOC/SiC Composites for Efficient Wastewater Treatment Applications. Membranes, 2022, 12, 175.	1.4	5
678	Robust all-inorganic hydrophobic BN nanosheets coated β -sialon membrane for membrane distillation. Journal of the European Ceramic Society, 2022, 42, 2672-2677.	2.8	9
679	Controlled aggregation of phytic acid metal complex on polysulfone ultrafiltration membrane toward simultaneous rejection of highly emulsified oils and dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128568.	2.3	10
680	3D inner-outer asymmetric sponge for enormous-volume emulsion wastewater treatment based on a new "demulsification-transport" mechanism. Green Energy and Environment, 2023, 8, 1398-1408.	4.7	2
683	Sustainability of wastewater treatment. , 2022, , 223-248.		1
684	Nanocoated membranes for oil/water separation. , 2022, , 207-230.		0
685	Absolute film separation of dyes/salts and emulsions with a superhigh water permeance through graded nanofluidic channels. Materials Horizons, 2022, 9, 1536-1542.	6.4	8
686	Electrochemical treatment of petroleum wastewater: standalone and integrated processes. , 2022, , 171-183.		0
687	Superhydrophobic, Flame-Retardant and Magnetic Polyurethane Sponge for Oil-Water Separation. SSRN Electronic Journal, 0, , .	0.4	0
688	Produced Water from Oil and Gas Exploration"Problems, Solutions and Opportunities. Journal of Water Resource and Protection, 2022, 14, 142-185.	0.3	20
689	Treatment of Hydrothermal-Liquefaction Wastewater with Crossflow UF for Oil and Particle Removal. Membranes, 2022, 12, 255.	1.4	4
690	Polymeric Membranes for Oil-Water Separation: A Review. Polymers, 2022, 14, 980.	2.0	70
691	Flexible, Elastic, and Superhydrophobic/Superoleophilic Adhesive for Reusable and Durable Water/Oil Separation Coating. ACS Applied Materials & Interfaces, 2022, 14, 10825-10835.	4.0	31
692	A Janus Mesh with Robust Interface and Controllable Wettability for Water Transport. Journal of Nanomaterials, 2022, 2022, 1-10.	1.5	0
693	Poly(ethylene-co-vinyl alcohol) Electrospun Nanofiber Membranes for Gravity-Driven Oil/Water Separation. Membranes, 2022, 12, 382.	1.4	8
694	A Literature Review of Modelling and Experimental Studies of Water Treatment by Adsorption Processes on Nanomaterials. Membranes, 2022, 12, 360.	1.4	7
695	Fabrication, Characterization and Drainage Capacity of Single-Channel Porous Alumina Ceramic Membrane Tube. Membranes, 2022, 12, 390.	1.4	3

#	ARTICLE	IF	CITATIONS
696	Fabrication of a Flexible Si-cotton Filter Membrane for Efficient Hot Oil/Hot Water Separation. <i>Fibers and Polymers</i> , 2022, 23, 843-851.	1.1	1
697	Porous Al ₂ O ₃ ceramics with directional gradient pore structure modified by cobweb-bridged WO ₃ nanowires for oil/water emulsions separation. <i>Ceramics International</i> , 2022, 48, 18753-18764.	2.3	6
698	Systematic Design of a Flow-Through Titanium Electrode-Based Device with Strong Oil Droplet Rejection Property for Superior Oil-in-Water Emulsion Separation Performance. <i>Environmental Science & Technology</i> , 2022, 56, 4151-4161.	4.6	12
699	Î ² -silicon nitride membrane with robust inorganic-organic hybrid hydrophobic surface for water-in-oil emulsion separation. <i>Ceramics International</i> , 2022, 48, 17589-17595.	2.3	4
700	Effects of Membrane Structure on Oil-Water Separation by Smoothed Particle Hydrodynamics. <i>Membranes</i> , 2022, 12, 387.	1.4	5
701	Graphene oxide/double-layer hydroxide hybrids for efficient crude oil-water separation. <i>Materials Chemistry and Physics</i> , 2022, 281, 125917.	2.0	10
702	Photocatalytic microfiltration membranes produced by magnetron sputtering with self-cleaning capabilities. <i>Thin Solid Films</i> , 2022, 747, 139143.	0.8	11
703	Novel method for the facile control of molecular weight cut-off (MWCO) of ceramic membranes. <i>Water Research</i> , 2022, 215, 118268.	5.3	15
704	Piezoelectricity induced by pulsed hydraulic pressure enables in situ membrane demulsification and oil/water separation. <i>Water Research</i> , 2022, 215, 118245.	5.3	17
705	Double-barrier forward osmosis membrane for rejection and destruction of bacteria and removal of dyes. <i>Desalination</i> , 2022, 529, 115609.	4.0	8
706	Superhydrophobic, flame-retardant and magnetic polyurethane sponge for oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107580.	3.3	18
707	Robust PVDF/PSF hollow-fiber membranes modified with inorganic TiO ₂ particles for enhanced oil-water separation. <i>Journal of Membrane Science</i> , 2022, 652, 120470.	4.1	27
708	PVDF microfiltration membranes modified with AgNPs/tannic acid for efficient separation of oil and water emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 644, 128844.	2.3	12
709	Biodegradable, biomimetic, and nanonet-engineered membranes enable high-flux and highly-efficient oil/water separation. <i>Journal of Hazardous Materials</i> , 2022, 434, 128858.	6.5	39
710	Review of oilfield produced water treatment technologies. <i>Chemosphere</i> , 2022, 298, 134064.	4.2	53
711	Bioinspired cellulose-based membranes in oily wastewater treatment. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	17
712	Porous superhydrophobic-superoleophilic polytetrafluoroethylene fibrous membranes with tertiary structures for efficient oil/water separation. <i>Journal of Applied Polymer Science</i> , 2022, 139, 52018.	1.3	4
713	Membranes with FNMs for sustainable development. , 2022, , 355-387.		0

#	ARTICLE	IF	CITATIONS
714	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> , 2022, 647, 128875.	2.3	9
715	Oily Wastewater Treatment: Methods, Challenges, and Trends. <i>Processes</i> , 2022, 10, 743.	1.3	63
716	Super-hydrophobic/super-oleophilic carbon nanofiber-embedded resorcinol-formaldehyde composite membrane for effective separation of water-in-oil emulsion. <i>Journal of Membrane Science</i> , 2022, 654, 120538.	4.1	23
717	Molecular dynamics simulation of cross-linked carbon nanotube for water treatment. <i>Journal of Molecular Liquids</i> , 2022, 357, 119157.	2.3	1
718	Superhydrophobic and super-oleophilic natural sponge sorbent for crude oil/water separation. <i>Journal of Water Process Engineering</i> , 2022, 48, 102783.	2.6	7
720	Effect of Oxygen Plasma Pre-Treatment on the Surface Properties of Si-Modified Cotton Membranes for Oil/Water Separations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
721	Novel membranes with extremely high permeability fabricated by 3D printing and nickel coating for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12055-12061.	5.2	89
725	Underwater superoleophobic mesh with robust <i>Anthurium andraeanum</i> -like attapulgite coating layer for effective oil spill recovery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129184.	2.3	3
726	Antifouling BaTiO ₃ /PVDF piezoelectric membrane for ultrafiltration of oily bilge water. <i>Water Science and Technology</i> , 2022, 85, 2980-2992.	1.2	2
727	Facile preparation of hybrid coating-decorated cotton cloth with superoleophobicity in air for efficient light oil/water separation. <i>Surfaces and Interfaces</i> , 2022, 31, 102033.	1.5	3
728	Ultra-selective microfiltration SiO ₂ /carbon membranes for emulsified oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107848.	3.3	13
729	Approximately 1 Ånm-sized artificial tunnels in wrinkled graphene-graphene oxide composite membranes for efficient dye/dye separation and dye desalination. <i>Chemical Engineering Journal</i> , 2022, 445, 136753.	6.6	21
730	Synthesis of fluorine-containing conjugated microporous polymers and their application for highly efficient oil/water separation. <i>Microporous and Mesoporous Materials</i> , 2022, 339, 111990.	2.2	7
731	Electrospun hierarchically channeled polyacrylonitrile nanofibrous membrane for wastewater recovery. <i>Journal of Cleaner Production</i> , 2022, 361, 132167.	4.6	16
732	Universal Rapid Demulsification by Vacuum Suction Using Superamphiphilic and Underliquid Superamphiphobic Polyurethane/Diatomite Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24775-24786.	4.0	9
733	High flux polyaniline-coated ceramic membrane for effective separation of emulsified oil-in-water. <i>Ceramics International</i> , 2022, 48, 25246-25253.	2.3	9
734	Development of a calcium alginate-cellulose nanocrystal-based coating to reduce the impact of oil spills on shorelines. <i>Journal of Hazardous Materials</i> , 2022, 436, 129228.	6.5	8
735	Performance evaluation of an industrial ceramic nanofiltration unit for wastewater treatment in oil production. <i>Water Research</i> , 2022, 220, 118593.	5.3	15

#	ARTICLE	IF	CITATIONS
736	Recent progress on low-cost ceramic membrane for water and wastewater treatment. <i>Ceramics International</i> , 2022, 48, 24157-24191.	2.3	18
737	Fabrication of a superhydrophilic/underwater superoleophobic stainless steel mesh for oil/water separation with ultrahigh flux. <i>Frontiers of Chemical Science and Engineering</i> , 2023, 17, 46-55.	2.3	4
738	Role of silane grafting in the development of a superhydrophobic clay-alumina composite membrane for separation of water in oil emulsion. <i>Ceramics International</i> , 2022, 48, 26638-26650.	2.3	7
739	Optimizing the microstructure and properties of microfiltration carbon membranes enabled with PAN fibers for emulsified oil removal from wastewater. <i>Chemical Engineering Research and Design</i> , 2022, 184, 566-576.	2.7	4
740	Elucidating ion transport mechanism in polyelectrolyte-complex membranes. <i>Journal of Membrane Science</i> , 2022, 658, 120757.	4.1	6
741	Facile fabrication of 2D MOF-Based membrane with hierarchical structures for ultrafast Oil-Water separation. <i>Separation and Purification Technology</i> , 2022, 297, 121488.	3.9	13
742	Molecular dynamics simulation of demulsification of O/W emulsion containing soil in direct current electric field. <i>Journal of Molecular Liquids</i> , 2022, 361, 119618.	2.3	6
743	Environmental and Health Effects of Heavy Metals and Their Treatment Methods. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022, , 143-175.	0.4	1
744	Two-step facile fabrication of a superamphiphilic biomimic membrane with a microâ€“nano structure for oilâ€“water emulsion separation on-demand. <i>New Journal of Chemistry</i> , 2022, 46, 14140-14145.	1.4	2
746	Blending Electrostatic Spinning Fabrication of Superhydrophilic/Underwater Superoleophobic Polysulfonamide/Polyvinylpyrrolidone Nanofibrous Membranes for Efficient Oilâ€“Water Emulsion Separation. <i>Langmuir</i> , 2022, 38, 8241-8251.	1.6	15
747	Development of Novel Mixed Matrix Membranes (MMMs) for Oil Sands Wastewater Treatment: A Critical Review. <i>Water and Environment Journal</i> , 0, , .	1.0	0
748	Durable, flexible, and superâ€“hydrophobic wood membrane with nanopore by molecular crossâ€“linking for efficient separation of stabilized water/oil emulsions. <i>EcoMat</i> , 2022, 4, .	6.8	22
749	Biotechnological interventions in food waste treatment for obtaining value-added compounds to combat pollution. <i>Environmental Science and Pollution Research</i> , 2022, 29, 62755-62784.	2.7	7
750	Bio-inspired PDA@WS2 polyacrylonitrile ultrafiltration membrane for the effective separation of saline oily wastewater and the removal of soluble dye. <i>Separation and Purification Technology</i> , 2022, 299, 121711.	3.9	15
751	Stable hydrophilic and underwater superoleophobic ZnO nanorod decorated nanofibrous membrane and its application in wastewater treatment. <i>Journal of Membrane Science</i> , 2022, 659, 120803.	4.1	35
752	Metal-organic frameworks as advanced sorbents for oil/water separation. <i>Journal of Molecular Liquids</i> , 2022, 363, 119900.	2.3	11
753	A biomimetic Janus delignified wood membrane with asymmetric wettability prepared by thiol-ol chemistry for unidirectional water transport and selective oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 652, 129793.	2.3	13
754	Ultrathin Hydrophobic Inorganic Membranes via Femtosecond Laser Engraving for Efficient and Stable Extraction in a Microseparator. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 11534-11543.	1.8	4

#	ARTICLE	IF	CITATIONS
755	In-Situ Assembly of Polyelectrolyte Via Surface Segregation of Titanium Oxide for Antifouling Membranes. SSRN Electronic Journal, 0, , .	0.4	0
756	Alternative sources of urban water supply and application of emerging materials in water treatment. Current Directions in Water Scarcity Research, 2022, , 381-396.	0.2	0
757	Membranes for Oil/Water Separation: A Review. Advanced Materials Interfaces, 2022, 9, .	1.9	44
758	Four-Dimensional Visualization of Microscale Dynamics of Membrane Oil Fouling via Synchrotron Radiation Microcomputed Tomography. Langmuir, 2022, 38, 9884-9891.	1.6	3
759	Biomimetic directional transport for sustainable liquid usage. Biosurface and Biotribology, 0, , .	0.6	0
760	Recent advances of nanocomposite membranes using layer-by-layer assembly. Journal of Membrane Science, 2022, 661, 120926.	4.1	39
761	2D Nano-Mica Sheets Assembled Membranes for High-Efficiency Oil/Water Separation. Nanomaterials, 2022, 12, 2895.	1.9	3
762	Anti-fouling performance of polyamide microfiltration membrane modified with surfactants. Journal of Applied Polymer Science, 0, , .	1.3	1
763	Continuous separation and recovery of high viscosity oil from oil-in-water emulsion through nondispersive solvent extraction using hydrophobic nanofibrous poly(vinylidene fluoride) membrane. Journal of Membrane Science, 2022, 660, 120876.	4.1	12
764	Effective construction of anti-fouling zwitterion-functionalized ceramic membranes for separation of oil-in-water emulsion based on PDA/PEI co-deposition. Journal of Environmental Chemical Engineering, 2022, 10, 108396.	3.3	8
765	Separation of oil-water emulsion by disc ceramic membrane under dynamic membrane filtration mode. Separation and Purification Technology, 2022, 300, 121862.	3.9	12
766	Facile fabrication of ink-based conductive hydrophobic melamine sponge for oil/water separation and oils detection. Applied Surface Science, 2022, 604, 154532.	3.1	10
767	Immobilization of TiO ₂ nanoparticles on PES substrate via dopamine and poly (vinyl alcohol) for long-term oil/water purification. Chemical Engineering Research and Design, 2022, 166, 656-668.	2.7	14
768	Textured ceramic membranes for desilting and deoiling of produced water in the Permian Basin. IScience, 2022, 25, 105063.	1.9	2
769	Swellable poly(ionic liquid)s: Synthesis, structure-property relationships and applications. Progress in Polymer Science, 2022, 134, 101607.	11.8	15
770	Treatment of oily wastewater using photocatalytic membrane reactors: A critical review. Journal of Environmental Chemical Engineering, 2022, 10, 108539.	3.3	35
771	Designing of nanotextured inorganic-organic hybrid PVDF membrane for efficient separation of the oil-in-water emulsions. Chemosphere, 2022, 308, 136531.	4.2	18
772	A thermoresponsive CA-PNIPAM-based electrospun nanofibrous membrane for oil/water separation. New Journal of Chemistry, 2022, 46, 18984-18989.	1.4	9

#	ARTICLE	IF	CITATIONS
773	Ceramic membranes with <i>in situ</i> doped iron oxide nanoparticles for enhancement of antifouling characteristics and organic removal. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 2856-2872.	1.2	3
774	Treatment of Heavy-Metal-Containing Oily Wastewater Using a Novel <i>Zirconium-Phosphate/Polyacrylonitrile</i> Ultrafiltration Membrane. <i>Science of Advanced Materials</i> , 2022, 14, 644-654.	0.1	7
775	Effect of loading various nanoparticles on superhydrophobic/superoleophilic stearic acid-modified polyurethane foams for oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108577.	3.3	15
776	Review of Hollow Fiber (HF) Membrane Filtration Technology for the Treatment of Oily Wastewater: Applications and Challenges. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1313.	1.2	9
777	Self-healable poly-(acrylic acid)@Fe/Ni hybrid hydrogel membrane for Cr(VI) removal from industrial wastewater. <i>Polymer Bulletin</i> , 2023, 80, 8259-8281.	1.7	5
778	Development of a novel poly-pseudorotaxane poly (m-phenylene isophthalamide) membrane with a biomimetic surface for effective oil-in-water emulsion separation. <i>Journal of Water Process Engineering</i> , 2022, 49, 103154.	2.6	0
779	Environmental and Health Consequences of Distillery Wastewater and Ways to Tackle: A Review. , 2021, 1, 41-49.		0
780	Contactless Discharge-Driven Method for Separation of Oil-Water Mixtures. <i>Micromachines</i> , 2022, 13, 1652.	1.4	0
781	Metal-Organic Frameworks and Electrospinning: A Happy Marriage for Wastewater Treatment. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	66
782	Emulsion system, demulsification and membrane technology in oil-water emulsion separation: A comprehensive review. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 1254-1278.	6.6	15
783	Macroporous ceramics for the sustainable development goals (SDGs): Review. <i>International Journal of Applied Ceramic Technology</i> , 2023, 20, 660-680.	1.1	3
784	Simulation of Interfacial Deformations for 2D Axisymmetric Multi-Material Flows. <i>International Journal of Multiphase Flow</i> , 2022, , 104313.	1.6	0
785	Application of in-situ microbubble method on SEP@MnO ₂ /RGO composite membrane for efficient and long-acting treatment of oil field wastewater. <i>Diamond and Related Materials</i> , 2022, 130, 109499.	1.8	8
786	In-situ growth strategy to fabricate superhydrophobic wood by Na ₃ (Cu ₂ (CO ₃) ₃ OH)·4H ₂ O for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 656, 130338.	2.3	6
787	Surface engineering of filter membranes with hydrogels for oil-in-water emulsion separation. <i>Separation and Purification Technology</i> , 2023, 304, 122340.	3.9	17
788	Progress reports of mineralized membranes: Engineering strategies and multifunctional applications. <i>Separation and Purification Technology</i> , 2023, 304, 122379.	3.9	41
789	Dual-functional superhydrophilic/underwater superoleophobic 2D Ti ₃ C ₂ TX MXene-PAN membrane for efficient oil-water separation and adsorption of organic dyes in wastewater. <i>Separation and Purification Technology</i> , 2023, 306, 122636.	3.9	31
790	Recovery of dyes and salts from highly concentrated (dye and salt) mixed water using nano-filtration ceramic membranes. <i>Heliyon</i> , 2022, 8, e11543.	1.4	3

#	ARTICLE	IF	CITATIONS
791	Preparation of ZrO ₂ /TiO ₂ /Al ₂ O ₃ Nanofiltration Lab-Scale Membrane for Filtering Heavy Metal Ions. <i>Coatings</i> , 2022, 12, 1681.	1.2	0
792	Solvent-resistant porous membranes using poly(ether ether ketone): preparation and application. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 1536-1559.	2.3	7
793	Recent advances in the development of MXene-based membranes for oil/water separation: A critical review. <i>Applied Materials Today</i> , 2022, 29, 101674.	2.3	5
794	Synergism effect between internal and surface cubic-large-pores in the enhancement of separation performance in hierarchically porous membranes. <i>Polymer</i> , 2023, 265, 125601.	1.8	1
795	Application of superabsorbent geotextiles to decontaminate and improve crude oil-contaminated soil. <i>Transportation Geotechnics</i> , 2023, 38, 100910.	2.0	2
796	Dual-functional superwetting CuCo ₂ O ₄ coated stainless steel mesh for wastewater treatment: Highly efficient oil/water emulsion separation and photocatalytic degradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 659, 130730.	2.3	4
797	Strategies for the construction of special wettability metal organic framework membranes: A review. <i>Journal of Water Process Engineering</i> , 2023, 51, 103374.	2.6	9
798	Multifunctional granulated blast furnace slag-based inorganic membrane for highly efficient separation of oil and dye from wastewater. <i>Chemical Engineering Research and Design</i> , 2023, 170, 380-391.	2.7	5
799	In-situ assembly of polyelectrolyte via surface segregation of titanium oxide for antifouling membranes. <i>Separation and Purification Technology</i> , 2023, 306, 122743.	3.9	8
800	Underwater superoleophobic GO-PEI-SiO ₂ -Hal quaternary sphere-rod nacre-inspired mesh by LBL self-assembly for high-efficiency oil-water separation. <i>Applied Clay Science</i> , 2023, 232, 106772.	2.6	4
801	Effect of Oxygen Plasma Pre-Treatment on the Surface Properties of Si-Modified Cotton Membranes for Oil/Water Separations. <i>Materials</i> , 2022, 15, 8551.	1.3	1
802	Presence, origins and effect of stable surface hydration on regenerated cellulose for underwater oil-repellent membranes. <i>Journal of Colloid and Interface Science</i> , 2023, 635, 197-207.	5.0	4
803	Fabrication of novel zwitterionic copolymer high performance membrane applied for oil/water mixtures and emulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 660, 130878.	2.3	4
804	Enhanced superhydrophobicity of electrospun carbon nanofiber membranes by hydrothermal growth of ZnO nanorods for oil-water separation. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104523.	2.3	4
805	Fabrication of Metallic Micro-/Nano-Composite Materials for Environmental Applications. <i>Coatings</i> , 2022, 12, 1946.	1.2	1
806	Ultrasml Cu ₃ (PO ₄) ₂ Nanoparticles Reinforced Hydrogel Membrane for Super-antifouling Oil/Water Emulsion Separation. <i>ACS Nano</i> , 2022, 16, 20786-20795.	7.3	32
808	Recent Advances in Stimuli-Responsive Smart Membranes for Nanofiltration. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	24
809	Recent progress and future directions of membranes green polymers for oily wastewater treatment. <i>Water Science and Technology</i> , 2023, 87, 57-82.	1.2	5

#	ARTICLE	IF	CITATIONS
810	Global research trends in petrochemical wastewater treatment from 2000 to 2021. <i>Environmental Science and Pollution Research</i> , 2023, 30, 9369-9388.	2.7	7
811	Antifouling Hydrophilic Electrostatic Spinning PAN Membrane Based on Click Chemistry with High Efficiency Oil-water Separation. <i>Fibers and Polymers</i> , 2022, 23, 3386-3397.	1.1	6
812	Degradable composite aerogel with excellent water-absorption for trace water removal in oil and oil-in-water emulsion filtration. <i>Frontiers in Materials</i> , 0, 9, .	1.2	4
813	Solar interfacial evaporation based oil/water separation from emulsion using a wood-melamine/calcium alginate composite structure. <i>Solar Energy</i> , 2023, 250, 59-69.	2.9	2
814	Green Fabrication of Underwater Superoleophobic Biopolymeric Nanofibrous Membranes for Effective Oil-Water Separation. <i>Advanced Fiber Materials</i> , 2023, 5, 603-616.	7.9	15
815	From ultra to nanofiltration: A review on the fabrication of ZrO ₂ membranes. <i>Ceramics International</i> , 2023, 49, 8683-8708.	2.3	7
816	Facile preparation of superhydrophilic and underwater superoleophobic stainless steel mesh for oil-water separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 120, 398-409.	2.9	12
817	Fouling-Resistant and Self-Cleaning Materials for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 125-145.	0.5	0
818	Electrospun Nanofibrous Materials for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 41-81.	0.5	2
819	Metal-Organic Framework Materials for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 245-282.	0.5	2
820	Materials and Methodologies for Tuning Surface Wettability and Oil/Water Separation Mechanisms. <i>ACS Symposium Series</i> , 0, , 165-244.	0.5	0
821	Overview on Oil/Water Separation Techniques and Working Principles. <i>ACS Symposium Series</i> , 0, , 247-304.	0.5	2
822	Superhydrophobic/Superhydrophilic Polymeric Membranes for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 119-184.	0.5	1
823	Development of Ceramic (Inorganic) Membranes for Oil/Water Separation. <i>ACS Symposium Series</i> , 0, , 185-216.	0.5	0
824	Fabrication of eco-friendly superhydrophobic and superoleophilic PHBA-SiO ₂ bionanofiber membrane for gravity-driven oil/water separation. <i>Journal of Applied Polymer Science</i> , 0, , .	1.3	1
825	Recent advances on 3D printing for wastewater treatment and process optimization using artificial intelligence and machine learning. , 2023, , 55-82.		0
826	Special Wettable Membranes for Oil/Water Separations: A Brief Overview of Properties, Types, and Recent Progress. <i>Colloids and Interfaces</i> , 2023, 7, 11.	0.9	2
827	Principles of electrospinning and nanofiber membranes. , 2023, , 3-25.		1

#	ARTICLE	IF	CITATIONS
828	3D-Printed membrane for water treatment. , 2023, , 133-156.		0
829	Liquid–Liquid Phase Separation of Two Non-Dissolving Liquids–A Mini Review. Processes, 2023, 11, 1145.	1.3	1
830	Enhanced removal of organic matter from oxygen-pressure leaching solution by modified anode slime. Journal of Cleaner Production, 2023, 404, 136886.	4.6	2
831	–One Stone Three Birds– A multifunctional cotton fabric with favorable self-cleaning, photothermal effect and Joule heating properties. Applied Surface Science, 2023, 623, 156961.	3.1	8
832	PDA controllably-modified Janus membranes with high-permeability for oil/water separation. Composites Communications, 2023, 40, 101574.	3.3	8
833	Switchable CAU-10-H mesh membrane for on-demand separation of immiscible oil/water mixtures and emulsions. Journal of Environmental Chemical Engineering, 2023, 11, 109656.	3.3	5
834	Nature-inspired construction of poly (vinylidene fluoride) membranes through the coordination coating of tannic acid with copper ions for oil-in-water emulsions separation. Journal of Membrane Science, 2023, 671, 121367.	4.1	12
835	Hierarchical structured surfaces enhance the contact angle of the hydrophobic (meta-stable) state. Journal of Chemical Physics, 2023, 158, .	1.2	2
836	Modification of polyacrylonitrile (PAN) membrane with anchored long and short anionic chains for highly effective anti-fouling performance in oil/water separation. Separation and Purification Technology, 2023, 316, 123769.	3.9	6
837	Pressure-driven flow behavior of small molecules through a carbon nanotube. Journal of Molecular Liquids, 2023, 374, 121276.	2.3	2
838	Study of modified PVDF membranes with high-capacity adsorption features using Quantum mechanics, Monte Carlo, and Molecular Dynamics Simulations. Journal of Molecular Liquids, 2023, 375, 121286.	2.3	26
839	Improved oily wastewater rejection and flux of hydrophobic PVDF membrane after polydopamine-polyethyleneimine co-deposition and modification. South African Journal of Chemical Engineering, 2023, 44, 42-50.	1.2	0
840	Modified Nanofiltration Membrane for Wastewater Treatment. , 2023, , 157-183.		0
841	Membrane wettability manipulation via mixed-dimensional heterostructured surface towards highly efficient oil-in-water emulsion separation. Journal of Membrane Science, 2023, 672, 121472.	4.1	19
842	Graphene oxide assisted assembly of superhydrophilic MOF-based membrane with 2D/3D hybrid nanochannels for enhanced water purification. Chemical Engineering Journal, 2023, 460, 141694.	6.6	14
843	Modeling of Organic Fouling in an Ultrafiltration Cell Using Different Three-Dimensional Printed Turbulence Promoters. Membranes, 2023, 13, 262.	1.4	3
844	Investigation of the viable role of oil sludge-derived activated carbon for oily wastewater remediation. Frontiers in Environmental Science, 0, 11, .	1.5	1
845	Membrane distillation for wastewater treatment: Recent advances in process optimization and membrane modification. , 2023, , 355-385.		1

#	ARTICLE	IF	CITATIONS
846	Commercial scale membrane-based produced water treatment plant. , 2023, , 143-171.		0
847	Antimicrobial cellulose paper tuned with chitosan fibers for high-flux oil/water separation. Carbohydrate Polymers, 2023, 312, 120794.	5.1	14
848	Functionalized electrospun biobased polymeric materials in filtration. , 2023, , 625-651.		1
849	Oil field produced water: issues and possible solutions. , 2023, , 259-282.		0
850	Effect of Diameter of Carbon Nanotubes in Nanocomposite Membrane for Methyl Orange Dye Removal. Journal of Applied Membrane Science & Technology, 2023, 27, 47-61.	0.3	0
851	Synthesis and Characterization of a New Bioinspired Superhydrophilic/Underwater Superoleophobic Hybrid Mesh Based Multi-Component Interpolymer Complexes: Exceptional Mechanical/Chemical Stability and Reusability. Journal of Polymers and the Environment, 2023, 31, 3480-3492.	2.4	1
852	Oil/Water Mixtures and Emulsions Separation Methodsâ€”An Overview. Materials, 2023, 16, 2503.	1.3	2
853	The effect of modified silica nanoparticles on the polycarbonate thin-film nanocomposite membranes in a submerged membrane system for the treatment of surface-contaminated water. Polymer Bulletin, 2024, 81, 1269-1289.	1.7	0
854	Influence of structure of porous polyketone microfiltration membranes on separation of waterâ€”oil emulsions. Journal of Applied Polymer Science, 0, , .	1.3	0
855	Challenges of industries in dealing with oily wastewater release and treatments. , 2023, , 49-70.		1
856	Hybrid/integrated treatment technologies for oily wastewater treatment. , 2023, , 377-419.		1
857	Preparation and Characterization of a Janus Membrane with an â€œIntegratedâ€”Structure and Adjustable Hydrophilic Layer Thickness. Membranes, 2023, 13, 415.	1.4	2
858	Underwater superoleophobic HKUST-1/PDA@SM membrane with excellent stability and anti-fouling performance for oil-in-water emulsion separation. Journal of Membrane Science, 2023, 678, 121655.	4.1	14
859	Concentrating emulsified oily wastewater by integrated membrane technology. Water Science and Technology, 0, , .	1.2	0
860	4D Printing of Butterfly Scaleâ€”Inspired Structures for Wideâ€”Angle Directional Liquid Transport. Small, 2023, 19, .	5.2	2
896	Cellulose acetate-based membrane for wastewater treatmentâ€”A state-of-the-art review. Materials Advances, 2023, 4, 4054-4102.	2.6	2
897	Membrane processes for wastewater treatment. Advances in Chemical Pollution, Environmental Management and Protection, 2023, , .	0.3	0
898	Wastewater remediation using bionanocomposites. , 2024, , 293-326.		0

#	ARTICLE	IF	CITATIONS
920	Chemie und Technik der chemisch-physikalischen Entgiftung und Elimination von Schadstoffen. , 2017, , 99-231.		0
945	Membrane water processes and nanobubble technology. , 2024, , 489-527.		0
957	Wastewater treatment using membrane-based separation with carbon nanotubes. , 2024, , 331-363.		0
958	Electrospun fibers: promising materials for oil water separation. , 2024, , 261-288.		0
965	Applications of nanoceramics to promote environmental sustainability. , 2024, , 247-265.		0