

Application and modification of poly(vinylidene fluoride)

Journal of Membrane Science

463, 145-165

DOI: [10.1016/j.memsci.2014.03.055](https://doi.org/10.1016/j.memsci.2014.03.055)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Influence of PEG Additive on the Morphology of PVDF Ultrafiltration Membranes and Its Antifouling Properties Towards Proteins Separation. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	3
2	Poly(vinylidene fluoride) (PVDF) Membrane Preparation with an Ionic Liquid via Thermally Induced Phase Separation Melt Technology. Applied Mechanics and Materials, 2014, 694, 462-465.	0.2	1
3	Effects of Additives on the Morphology and Performance of PPTA/PVDF in Situ Blend UF Membrane. Polymers, 2014, 6, 1846-1861.	2.0	72
4	Criteria for the selection of a support material to fabricate coated membranes for a life support device. RSC Advances, 2014, 4, 38711-38717.	1.7	30
5	Study of cyanide wastewater treatment by dispersion supported liquid membrane using trioctylamine and kerosene as liquid membrane. Water Science and Technology, 2015, 72, 643-650.	1.2	3
6	Influence of a graphene oxide additive and the conditions of membrane formation on the morphology and separative properties of poly(vinylidene fluoride) membranes. Journal of Applied Polymer Science, 2015, 132, .	1.3	19
7	Polymer Nano-Composite Membranes. Journal of Membrane Science & Technology, 2015, 05, .	0.5	7
8	FABRICATION AND CHARACTERIZATION OF POLYVINYLIDENE FLUORIDE COMPOSITE NANOFIBER MEMBRANE FOR WATER FLUX PROPERTY. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.3	1
9	Liquid-Phase Polymer-Based Retention: Theory, Modeling, and Application for the Removal of Pollutant Inorganic Ions. Journal of Chemistry, 2015, 2015, 1-9.	0.9	5
10	The effects of hydroxyapatite nano whiskers and its synergism with polyvinylpyrrolidone on poly(vinylidene fluoride) hollow fiber ultrafiltration membranes. RSC Advances, 2015, 5, 21532-21543.	1.7	32
11	Electrospun PVDF/PMMA/SiO ₂ Membrane Separators for Rechargeable Lithium-Ion Batteries. Key Engineering Materials, 0, 645-646, 1201-1206.	0.4	8
12	Characteristics of PVDF Membranes Irradiated by Electron Beam. Membranes, 2015, 5, 1-10.	1.4	51
13	Preparation of a novel anti-fouling β -cyclodextrin-PVDF membrane. RSC Advances, 2015, 5, 51364-51370.	1.7	41
14	Hydrophobin-stabilized dispersions of PVDF nanoparticles in water. Journal of Fluorine Chemistry, 2015, 177, 62-69.	0.9	22
15	Preparation and characterization of PDMS-PVDF hydrophobic microporous membrane for membrane distillation. Desalination, 2015, 370, 63-71.	4.0	66
16	A novel hydrophilic treatment of polyvinylidene fluoride membrane based on layer-by-layer assembly. Materials Research Innovations, 2015, 19, S2-18-S2-22.	1.0	2
17	Polymerization and Functionalization of Membrane Pores for Water Related Applications. Industrial & Engineering Chemistry Research, 2015, 54, 4174-4182.	1.8	47
18	Synthesis and characterization of poly (vinylidene fluoride)-calcium phosphate composite for potential tissue engineering applications. Ceramics International, 2015, 41, 7066-7072.	2.3	25

#	ARTICLE	IF	CITATIONS
19	Comparison of different removal techniques for selected pharmaceuticals. <i>Journal of Water Process Engineering</i> , 2015, 5, 48-57.	2.6	66
20	Improved protein fouling resistance of PVDF membrane grafted with the polyampholyte layers. <i>Colloid and Polymer Science</i> , 2015, 293, 1205-1213.	1.0	34
21	A Review on Flux Decline Control Strategies in Pressure-Driven Membrane Processes. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2843-2861.	1.8	108
22	From hydrophobic to hydrophilic polyvinylidene fluoride (PVDF) membranes by gaining new insight into material's properties. <i>RSC Advances</i> , 2015, 5, 56219-56231.	1.7	60
23	Characterization of modified PVDF membrane by gamma irradiation for non-potable water reuse. <i>Water Science and Technology</i> , 2015, 71, 947-954.	1.2	3
24	Processâ€“structureâ€“property relationships in nanocomposites based on piezoelectric-polymer matrix and magnetic nanoparticles. , 2015, , 255-278.		4
25	Effect of citrate-based non-toxic solvents on poly(vinylidene fluoride) membrane preparation via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2015, 493, 232-242.	4.1	64
26	A systematic assessment method for the investigation of the PVDF membrane stability. <i>Desalination and Water Treatment</i> , 2015, , 1-12.	1.0	8
27	Assistant effect of poly(methyl methacrylate)-grafted carbon nanotubes on the beta polymorph of poly(vinylidene fluoride) during microinjection. <i>RSC Advances</i> , 2015, 5, 54171-54174.	1.7	14
28	Preparation and electrochemical performance of ZrO ₂ nanoparticle-embedded nonwoven composite separator for lithium-ion batteries. <i>Ceramics International</i> , 2015, 41, 14223-14229.	2.3	41
29	An improved process for polyvinylidene fluoride membrane preparation by using a water soluble diluent via thermally induced phase separation technique. <i>Materials and Design</i> , 2015, 86, 204-214.	3.3	34
30	Antifouling PVDF membrane with hydrophilic surface of terry pile-like structure. <i>Journal of Membrane Science</i> , 2015, 493, 243-251.	4.1	66
31	Physical and mechanical behaviour of a fibre-reinforced rubber membrane with self-healing purposes via microwave heating. <i>Construction and Building Materials</i> , 2015, 94, 45-56.	3.2	22
32	Preparation and performance of poly(vinyl alcohol) porous separator for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2015, 487, 221-228.	4.1	95
33	Surface modification of ultrafiltration membranes by grafting glycine-functionalized PVA based on polydopamine coatings. <i>Applied Surface Science</i> , 2015, 345, 301-309.	3.1	56
34	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9534-9545.	4.0	276
35	Polyvinylidene fluoride/poly(ethylene-co-vinyl alcohol) blended membranes and a systematic insight into their antifouling properties. <i>RSC Advances</i> , 2015, 5, 36325-36333.	1.7	17
36	Unique nanoporous antibacterial membranes derived through crystallization induced phase separation in PVDF/PMMA blends. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5991-6003.	5.2	44

#	ARTICLE	IF	CITATIONS
37	Stimuli responsive and low fouling ultrafiltration membranes from blends of poly(vinylidene fluoride) and designed library of amphiphilic poly(methyl methacrylate) containing copolymers. <i>Journal of Membrane Science</i> , 2015, 481, 137-147.	4.1	43
38	Engineering a Highly Hydrophilic PVDF Membrane via Binding TiO ₂ Nanoparticles and a PVA Layer onto a Membrane Surface. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8427-8436.	4.0	157
39	Hydrophobic polyethersulfone porous membranes for membrane distillation. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 84-93.	2.3	16
40	Surface modification of poly(vinylidene fluoride) membrane with hydrophilic and anti-fouling performance via a two-step polymerization. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 2492-2500.	1.2	10
41	Preparation and characterization of PVDF-glass fiber composite membrane reinforced by interfacial UV-grafting copolymerization. <i>Journal of Environmental Sciences</i> , 2015, 38, 24-35.	3.2	19
42	Positively charged membrane for removing low concentration Cr(VI) in ultrafiltration process. <i>Journal of Water Process Engineering</i> , 2015, 8, 99-107.	2.6	40
43	Preparation of antifouling poly(vinylidene fluoride) membranes via different coating methods using a zwitterionic copolymer. <i>Applied Surface Science</i> , 2015, 357, 1388-1395.	3.1	35
44	Effects of post-treatment on the structure and properties of PVDF/FEP blend hollow fiber membranes. <i>RSC Advances</i> , 2015, 5, 77407-77416.	1.7	4
45	PVDF/palygorskite composite ultrafiltration membranes with enhanced abrasion resistance and flux. <i>Journal of Membrane Science</i> , 2015, 495, 91-100.	4.1	42
46	Poly(vinylidene fluoride) membranes impregnated at optimised content of pristine and functionalised multi-walled carbon nanotubes for improved water permeation, solute rejection and mechanical properties. <i>Separation and Purification Technology</i> , 2015, 154, 290-300.	3.9	19
47	Visible and ultraviolet antibacterial behavior in PVDF/TiO ₂ nanocomposite films. <i>European Polymer Journal</i> , 2015, 71, 412-422.	2.6	19
48	Hydraulic power and electric field combined antifouling effect of a novel conductive poly(aminoanthraquinone)/reduced graphene oxide nanohybrid blended PVDF ultrafiltration membrane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20277-20287.	5.2	68
49	Shrinkage, defect and membrane distillation performance of composite PVDF membranes. <i>Desalination</i> , 2015, 376, 62-72.	4.0	44
50	Improving antifouling ability and hemocompatibility of poly(vinylidene fluoride) membranes by polydopamine-mediated ATRP. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7698-7706.	2.9	48
51	Hybrid PVDF/PVDF- <i>graft</i> -PEGMA Membranes for Improved Interface Strength and Lifetime of PEDOT:PSS/PVDF/Ionic Liquid Actuators. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19966-19977.	4.0	39
52	Batwing-like polymer membrane consisting of PMMA-grafted electrospun PVDF/SiO ₂ nanocomposite fibers for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2015, 495, 341-350.	4.1	81
53	PVDF membrane biofunctionalization by chemical grafting. <i>Journal of Membrane Science</i> , 2015, 476, 483-489.	4.1	55
54	Fouling control through the hydrophilic surface modification of poly(vinylidene fluoride) membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	10

#	ARTICLE	IF	CITATIONS
55	Mussel-inspired tailoring of membrane wettability for harsh water treatment. Journal of Materials Chemistry A, 2015, 3, 2650-2657.	5.2	175
56	Multi-walled carbon nanotube/PVDF blended membranes with sponge- and finger-like pores for direct contact membrane distillation. Desalination, 2015, 357, 233-245.	4.0	158
57	Fabrication of novel poly(phenylene ether ether sulfone) based nanocomposite membrane modified by Fe ₂ NiO ₄ nanoparticles and ethanol as organic modifier. Desalination, 2015, 357, 189-196.	4.0	29
58	Effects of hydrophilicity/hydrophobicity of membrane on membrane fouling in a submerged membrane bioreactor. Bioresource Technology, 2015, 175, 59-67.	4.8	130
59	Influence of Ag/TiO ₂ nanoparticle on the surface hydrophilicity and visible-light response activity of polyvinylidene fluoride membrane. Applied Surface Science, 2015, 324, 82-89.	3.1	84
60	Tertiary amine block copolymer containing ultrafiltration membrane with pH-dependent macromolecule sieving and Cr(VI) removal properties. Desalination, 2015, 355, 91-98.	4.0	40
61	Partially sulfonated polyaniline induced high ion-exchange capacity and selectivity of Nafion membrane for application in direct methanol fuel cells. Journal of Membrane Science, 2015, 473, 94-101.	4.1	85
62	Recent advances in membrane distillation processes: Membrane development, configuration design and application exploring. Journal of Membrane Science, 2015, 474, 39-56.	4.1	740
64	Produced Water from Oil-Gas Plants: A Short Review on Challenges and Opportunities. Periodica Polytechnica: Chemical Engineering, 2016, , .	0.5	17
65	Preparation and Characterization of Hydrophilically Modified PVDF Membranes by a Novel Nonsolvent Thermally Induced Phase Separation Method. Membranes, 2016, 6, 47.	1.4	27
66	Preparation of PVDF/CaCO ₃ hybrid hollow fiber membranes for direct contact membrane distillation through TIPS method. Journal of Applied Polymer Science, 2016, 133, .	1.3	11
67	A Review on Chitosan Utilization in Membrane Synthesis. ChemBioEng Reviews, 2016, 3, 134-158.	2.6	46
68	Preparation of PVDF/poly(tetrafluoroethylene-co-vinyl alcohol) blend membranes with antifouling propensities via nonsolvent induced phase separation method. Journal of Applied Polymer Science, 2016, 133, .	1.3	8
69	Polymers and nanocomposites: synthesis and metal ion pollutant uptake. Polymer International, 2016, 65, 255-267.	1.6	25
70	Preparation of novel high copper ions removal membranes by embedding organosilane-functionalized multi-walled carbon nanotube. Journal of Chemical Technology and Biotechnology, 2016, 91, 2322-2330.	1.6	49
71	Improvement of the thermal transport performance of a poly(vinylidene fluoride) composite film including silver nanowire. Journal of Applied Polymer Science, 2016, 133, .	1.3	17
72	A novel conductive membrane with RGO/PVDF coated on carbon fiber cloth for fouling reduction with electric field in separating polyacrylamide. Journal of Applied Polymer Science, 2016, 133, .	1.3	2
73	Hydrophilic modification of poly(vinylidene fluoride) ultrafiltration membranes by surface UV photo-grafting with N,N'-methylene-bisacrylamide as monomer and Ce(IV) as initiator. Journal of Water Reuse and Desalination, 2016, 6, 280-289.	1.2	2

#	ARTICLE	IF	CITATIONS
74	Durable antifouling polyvinylidene fluoride membrane via surface zwitterionicalization mediated by an amphiphilic copolymer. RSC Advances, 2016, 6, 114024-114036.	1.7	9
75	Enhanced antifouling ability of a poly(vinylidene fluoride) membrane functionalized with a zwitterionic serine-based layer. RSC Advances, 2016, 6, 85612-85620.	1.7	8
76	Polyvinylidene fluoride/carbon nanotubes mixed matrix membranes with tailored properties. AIP Conference Proceedings, 2016, , .	0.3	1
79	Enhanced hydrophilicity of a thermo-responsive PVDF/palygorskite-g-PNIPAAm hybrid ultrafiltration membrane via surface segregation induced by temperature. RSC Advances, 2016, 6, 62186-62192.	1.7	17
80	Enhancing the permeation and fouling resistance of PVDF microfiltration membranes by constructing an auto-soak surface. RSC Advances, 2016, 6, 113267-113274.	1.7	9
81	Crystal nuclei templated nanostructured membranes prepared by solvent crystallization and polymer migration. Nature Communications, 2016, 7, 12804.	5.8	42
82	Ammonium persulphate as novel additive for filtration performance improvement of PVDF microporous membrane. Separation and Purification Technology, 2016, 165, 78-85.	3.9	6
83	Preparation and properties of PVDF/SiO ₂ @GO nanohybrid membranes via thermally induced phase separation method. Journal of Membrane Science, 2016, 511, 151-161.	4.1	73
84	Highly selective, regenerated ion-sieve microfiltration porous membrane for targeted separation of Li ⁺ . Journal of Porous Materials, 2016, 23, 1411-1419.	1.3	35
85	A super hydrophilic modification of poly(vinylidene fluoride) (PVDF) nanofibers: By in situ hydrothermal approach. Applied Surface Science, 2016, 385, 417-425.	3.1	31
86	One-step fabricated bionic PVDF ultrafiltration membranes exhibiting innovative antifouling ability to the cake fouling. Journal of Membrane Science, 2016, 515, 29-35.	4.1	34
87	Antifouling polyethersulfone membrane blended with a dual-mode amphiphilic copolymer. Journal of Materials Science, 2016, 51, 7383-7394.	1.7	10
88	Polymeric Heat Exchangers: Effect of Chemistry and Chemical Composition to Their Performance. , 2016, , 51-67.		1
89	A green approach assembled multifunctional Ag/AgBr/TNF membrane for clean water production & disinfection of bacteria through utilizing visible light. Applied Catalysis B: Environmental, 2016, 196, 57-67.	10.8	58
90	Effect of type of poly(ethylene glycol) (PEG) based amphiphilic copolymer on antifouling properties of copolymer/poly(vinylidene fluoride) (PVDF) blend membranes. Journal of Membrane Science, 2016, 514, 429-439.	4.1	106
91	A facile method for the preparation of poly(vinylidene fluoride) membranes filled with cross-linked sulfonated polystyrene. Reactive and Functional Polymers, 2016, 99, 42-48.	2.0	12
92	Recent advances in polymer and polymer composite membranes for reverse and forward osmosis processes. Progress in Polymer Science, 2016, 61, 104-155.	11.8	345
93	Application of Zirconium/PVA Modified Flat-Sheet PVDF Membrane for the Removal of Phosphate from Aqueous Solution. Industrial & Engineering Chemistry Research, 2016, 55, 6835-6844.	1.8	27

#	ARTICLE	IF	CITATIONS
94	Improved lateral heat spreading performance for polyvinylidene fluoride composite film comprising silver nanowire in light-emitting diode. RSC Advances, 2016, 6, 35884-35891.	1.7	9
95	Zirconium/polyvinyl alcohol modified flat-sheet polyvinylidene fluoride membrane for decontamination of arsenic: Material design and optimization, study of mechanisms, and application prospects. Chemosphere, 2016, 155, 630-639.	4.2	31
96	Treatment of lead contaminated water by a PVDF membrane that is modified by zirconium, phosphate and PVA. Water Research, 2016, 101, 564-573.	5.3	107
97	Beads-on-String Structured Nanofibers for Smart and Reversible Oil/Water Separation with Outstanding Antifouling Property. ACS Applied Materials & Interfaces, 2016, 8, 25612-25620.	4.0	144
98	A PVDF/PVB composite UF membrane improved by F-127-wrapped fullerene for protein waste-water separation. RSC Advances, 2016, 6, 83510-83519.	1.7	15
100	A comprehensive review: electrospinning technique for fabrication and surface modification of membranes for water treatment application. RSC Advances, 2016, 6, 85495-85514.	1.7	255
101	Advanced Separators for Lithium-ion and Lithium-Sulfur Batteries: A Review of Recent Progress. ChemSusChem, 2016, 9, 3023-3039.	3.6	299
102	Eco-friendly polyvinyl alcohol/cellulose nanofiber ⁺ composite separator for high-performance lithium-ion batteries. RSC Advances, 2016, 6, 97912-97920.	1.7	43
103	Developing an antibacterial super-hydrophilic barrier between bacteria and membranes to mitigate the severe impacts of biofouling. Biofouling, 2016, 32, 1089-1102.	0.8	15
104	Hydrophilic modification of PVDF porous membrane via a simple dip-coating method in plant tannin solution. RSC Advances, 2016, 6, 71287-71294.	1.7	48
105	Tailoring the hierarchical porous structure within polyethersulfone/cellulose nanosheets mixed matrix membrane to achieve efficient dye/salt mixture fractionation. Journal of Polymer Research, 2016, 23, 1.	1.2	14
106	Photocatalytic antifouling PVDF ultrafiltration membranes based on synergy of graphene oxide and TiO ₂ for water treatment. Journal of Membrane Science, 2016, 520, 281-293.	4.1	331
107	Fabrication of novel polyethersulfone based nanofiltration membrane by embedding polyaniline-co-graphene oxide nanoplates. Korean Journal of Chemical Engineering, 2016, 33, 2674-2683.	1.2	26
108	Poly(vinylidene fluoride-hexafluoropropylene)/bayerite composite membranes for efficient arsenic removal from water. Materials Chemistry and Physics, 2016, 183, 430-438.	2.0	41
109	Flexible carbon nanofiber/polyvinylidene fluoride composite membranes as interlayers in high-performance Lithium Sulfur batteries. Journal of Power Sources, 2016, 329, 305-313.	4.0	53
110	Recent advances in biomimetic thin membranes applied in emulsified oil/water separation. Journal of Materials Chemistry A, 2016, 4, 15749-15770.	5.2	168
111	PVDF membranes containing hybrid nanoparticles for adsorbing cationic dyes: physical insights and mechanism. Materials Research Express, 2016, 3, 075303.	0.8	1
112	Highly hydrophilic poly(vinylidene fluoride)/meso-titania hybrid mesoporous membrane for photocatalytic membrane reactor in water. Scientific Reports, 2016, 6, 19148.	1.6	19

#	ARTICLE	IF	CITATIONS
113	Hydrophobic Al ₂ O ₃ Membrane for Sucrose Concentration via Vacuum Membrane Distillation System. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 915-919.	0.3	5
114	Hybrid membrane bio-systems for sustainable treatment of oil and gas produced water and fracturing flowback water. <i>Separation and Purification Technology</i> , 2016, 171, 297-311.	3.9	86
115	Anti-fouling potential evaluation of PVDF membranes modified with ZnO against polysaccharide. <i>Chemical Engineering Journal</i> , 2016, 304, 165-174.	6.6	56
116	Tuning anti-adhesion ability of membrane for a membrane bioreactor by thermodynamic analysis. <i>Bioresource Technology</i> , 2016, 216, 691-698.	4.8	18
117	A Versatile Approach Towards the Fast Fabrication of Highly-Permeable Polymer Mesoporous Membranes. <i>ChemistrySelect</i> , 2016, 1, 3049-3053.	0.7	1
118	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. <i>Scientific Reports</i> , 2016, 6, 20142.	1.6	136
119	Polyvinylidene fluoride (PVDF) membrane for oil rejection from oily wastewater: A performance review. <i>Journal of Water Process Engineering</i> , 2016, 14, 41-59.	2.6	106
120	The use of polyvinylidene fluoride (PVDF) films as sensors for vibration measurement: A brief review. <i>Ferroelectrics</i> , 2016, 502, 28-42.	0.3	85
121	A novel PVDF/graphene composite membrane based on electrospun nanofibrous film for oil/water emulsion separation. <i>Composites Communications</i> , 2016, 2, 5-8.	3.3	39
122	Synergy of graphene oxide-silver nanocomposite and amphiphilic co-polymer F127 on antibacterial properties and permeability of PVDF membrane. <i>RSC Advances</i> , 2016, 6, 100334-100343.	1.7	8
123	High Levels of Residue within Polymeric Hollow Fiber Membranes Used for Blood Oxygenation. <i>ASAIO Journal</i> , 2016, 62, 690-696.	0.9	1
124	Preparation and characterization of a novel hydrophilic PVDF/PVA UF membrane modified by carboxylated multiwalled carbon nanotubes. <i>Polymer Engineering and Science</i> , 2016, 56, 955-967.	1.5	19
125	A novel polyethylene microfiltration membrane with highly permeable ordered "wine bottle" shaped through-pore structure fabricated via imprint and thermal field induction. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125501.	1.3	8
126	Crystallization behaviors of poly(vinylidene fluoride) and poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 227 Td (methacrylamide) brushes. <i>Calorimetry</i> , 2016, 125, 215-230.	2.0	13
127	Antifouling PVDF membrane grafted with zwitterionic poly(lysine methacrylamide) brushes. <i>RSC Advances</i> , 2016, 6, 61434-61442.	1.7	22
128	Synthesis of nanoporous PVDF membranes by controllable crystallization for selective proton permeation. <i>Journal of Membrane Science</i> , 2016, 517, 111-120.	4.1	20
129	Polymeric membranes for produced water treatment: an overview of fouling behavior and its control. <i>Reviews in Chemical Engineering</i> , 2016, 32, 611-628.	2.3	16
130	A review on Zeolite-Reinforced Polymeric Membranes: Salient Features and Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1971-1987.	1.9	18

#	ARTICLE	IF	CITATIONS
131	Hollow mesoporous silica sphere-embedded composite separator for high-performance lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2847-2855.	1.2	17
132	Novel Composite Anion Exchange Membranes Based on Quaternized Polyepichlorohydrin for Electromembrane Application. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7171-7178.	1.8	38
133	Manipulating Migration Behavior of Magnetic Graphene Oxide via Magnetic Field Induced Casting and Phase Separation toward High-Performance Hybrid Ultrafiltration Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18418-18429.	4.0	92
134	Effect of the exposure time on the structure and performance of hydrophobic polydimethylsiloxane-poly(vinylidene fluoride) membranes via a non-solvent-induced phase separation process in a clean room. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	3
135	Surface zwitterionization of poly(vinylidene fluoride) membranes from the entrapped reactive core-shell silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 110-119.	5.0	44
136	Ordered mesoporous silica/polyvinylidene fluoride composite membranes for effective removal of water contaminants. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3850-3857.	5.2	28
137	Novel PVDF hollow fiber ultrafiltration membranes with antibacterial and antifouling properties by embedding N-halamine functionalized multi-walled carbon nanotubes (MWNTs). <i>RSC Advances</i> , 2016, 6, 1710-1721.	1.7	36
138	Characterizing flat sheet membrane resistance fraction of chemically enhanced backflush. <i>Chemical Engineering Journal</i> , 2016, 284, 61-67.	6.6	41
139	Development of a process for generating three-dimensional microbial patterns amenable for engineering use. <i>RSC Advances</i> , 2016, 6, 22586-22593.	1.7	2
140	Preparation and characterization of novel microporous ultrafiltration PES membranes using synthesized hydrophilic polysulfide-amide copolymer as an additive in the casting solution. <i>Microporous and Mesoporous Materials</i> , 2016, 228, 1-13.	2.2	78
141	Design of PVDF/PEGMA-b-PS-b-PEGMA membranes by VIPS for improved biofouling mitigation. <i>Journal of Membrane Science</i> , 2016, 510, 355-369.	4.1	40
142	Removal of 2-propanol from water by pervaporation using poly(vinylidene fluoride) membrane filled with carbon black. <i>Applied Surface Science</i> , 2016, 368, 277-287.	3.1	25
143	Study of PVDF asymmetric membranes in a high-throughput membrane bioreactor (HT-MBR): Influence of phase inversion parameters and filtration performance. <i>Separation and Purification Technology</i> , 2016, 162, 6-13.	3.9	27
144	Development of PVDF membranes for membrane distillation via vapour induced crystallisation. <i>European Polymer Journal</i> , 2016, 77, 164-173.	2.6	37
145	Characterization and stability of a bioactivated alumina nanomembrane for application in flow devices. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 88-93.	2.2	8
146	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
147	Study on the fabrication, characterization and performance of PVDF/calcium stearate composite nanofiltration membranes. <i>Desalination</i> , 2016, 385, 24-38.	4.0	18
148	Effect of non-solvent additives on the morphology, pore structure, and direct contact membrane distillation performance of PVDF-CTFE hydrophobic membranes. <i>Journal of Environmental Sciences</i> , 2016, 45, 28-39.	3.2	37

#	ARTICLE	IF	CITATIONS
149	Ageing of polyvinylidene fluoride hollow fiber membranes in sodium hypochlorite solutions. <i>Journal of Membrane Science</i> , 2016, 505, 174-184.	4.1	34
150	Membrane materials for water purification: design, development, and application. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 17-42.	1.2	494
151	The tubular MFC with carbon tube air-cathode for power generation and N,N-dimethylacetamide treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 762-767.	1.2	7
152	Influences of the structure parameters of multi-walled carbon nanotubes(MWNTs) on PVDF/PFSA/O-MWNTs hollow fiber ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2016, 499, 179-190.	4.1	35
153	Mechanical, dielectric, and rheological properties of poly(arylene ether nitrile) reinforced poly(vinylidene fluoride). <i>High Performance Polymers</i> , 2017, 29, 178-186.	0.8	10
154	A novel antifouling and antibacterial surface-functionalized PVDF ultrafiltration membrane via binding Ag/SiO ₂ nanocomposites. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 562-572.	1.6	65
155	A study on the corona-treated PVdF films with alkyl methacrylate monomer as a coupling agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 150-153.	2.9	9
156	Experimental evaluation of mechanical and thermal properties of recycled rubber membranes reinforced with crushed polyethylene particles. <i>Journal of Cleaner Production</i> , 2017, 145, 85-97.	4.6	7
157	Application of Mg(OH) ₂ nanoplatelets as pore former to prepare PVDF ultrafiltration membranes. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 877-883.	3.3	8
158	Aramid nanofiber as an emerging nanofibrous modifier to enhance ultrafiltration and biological performances of polymeric membranes. <i>Journal of Membrane Science</i> , 2017, 528, 251-263.	4.1	65
159	Poly(vinylidene fluoride) Containing Phosphonic Acid as Anticorrosion Coating for Steel. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6433-6443.	4.0	35
160	Syringeless Electrospinning toward Versatile Fabrication of Nanofiber Web. <i>Scientific Reports</i> , 2017, 7, 41424.	1.6	60
161	A research on CO ₂ removal via hollow fiber membrane contactor: The effect of heat treatment. <i>Chemical Engineering Research and Design</i> , 2017, 120, 218-230.	2.7	12
162	Polysulfone hemodiafiltration membranes with enhanced anti-fouling and hemocompatibility modified by poly(vinyl pyrrolidone) via in situ cross-linked polymerization. <i>Materials Science and Engineering C</i> , 2017, 74, 159-166.	3.8	61
163	Exploration of zwitterionic cellulose acetate antifouling ultrafiltration membrane for bovine serum albumin (BSA) separation. <i>Carbohydrate Polymers</i> , 2017, 165, 266-275.	5.1	76
164	Oxidant-Induced High-Efficient Mussel-Inspired Modification on PVDF Membrane with Superhydrophilicity and Underwater Superoleophobicity Characteristics for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8297-8307.	4.0	139
165	Removal of high concentration CO ₂ from natural gas using high pressure membrane contactors. <i>International Journal of Greenhouse Gas Control</i> , 2017, 60, 1-9.	2.3	38
166	Valorizing Recalcitrant Cellulolytic Enzyme Lignin via Lignin Nanoparticles Fabrication in an Integrated Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2702-2710.	3.2	115

#	ARTICLE	IF	CITATIONS
167	Shape stability enhancement of PVDF electrospun polymer electrolyte membranes blended with poly(2-acrylamido-2-methylpropanesulfonic acid lithium). Iranian Polymer Journal (English Edition), 2017, 26, 179-191.	1.3	20
168	Preparation, characterization and performance study of modified PVDF-based membranes containing palladium nanoparticle-modified graphene hierarchical nanostructures: as a new catalytic nanocomposite membrane. Polymer Bulletin, 2017, 74, 3557-3577.	1.7	10
169	Poly(vinylidene difluoride)/poly(tetrafluoroethylene-co-vinylpyrrolidone) blend membranes with antifouling properties. Materials Science and Engineering C, 2017, 75, 79-87.	3.8	10
170	Superhydrophilic In-Situ-Cross-Linked Zwitterionic Polyelectrolyte/PVDF-Blend Membrane for Highly Efficient Oil/Water Emulsion Separation. ACS Applied Materials & Interfaces, 2017, 9, 9603-9613.	4.0	238
171	Fabrication of surface skinless membranes of epoxy resin-based mesoporous monoliths toward advanced separators for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6866-6873.	5.2	33
172	Improved PVDF membrane performance by doping extracellular polymeric substances of activated sludge. Water Research, 2017, 113, 89-96.	5.3	18
173	Preparation and characterization of novel PVDF nanofiltration membranes with hydrophilic property for filtration of dye aqueous solution. Applied Surface Science, 2017, 413, 41-49.	3.1	116
174	Facile synthesis of highly ordered through-micro-porous polyethylene microfiltration membrane via micro-casting. Materials Letters, 2017, 198, 124-127.	1.3	2
175	Hydrophilic modification of a poly(ether sulfone) flat-sheet ultrafiltration membrane applied to coking sewage. Journal of Applied Polymer Science, 2017, 134, 45149.	1.3	2
176	Improved performance of thin-film composite membrane with PVDF/PFSA substrate for forward osmosis process. Journal of Membrane Science, 2017, 535, 188-199.	4.1	89
177	Designing electrospun nanocomposite poly(vinylidene fluoride) mats with tunable wettability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 523, 81-90.	2.3	9
178	Localization of antifouling surface additives in the pore structure of hollow fiber PVDF membranes. Journal of Membrane Science, 2017, 538, 77-85.	4.1	24
179	Mechanical performance of piezoelectric fiber composites and electroelastic field concentration near the electrode edges. Materials and Design, 2017, 128, 71-79.	3.3	4
180	Electrospun Nanofibrous Membranes for Water Purification. Polymer Reviews, 2017, 57, 467-504.	5.3	137
181	Effect of solvent type on the physicochemical properties and performance of NLDH/PVDF nanocomposite ultrafiltration membranes. Separation and Purification Technology, 2017, 184, 97-118.	3.9	44
182	Design of anion species/strength responsive membranes via in-situ cross-linked copolymerization of ionic liquids. Journal of Membrane Science, 2017, 535, 158-167.	4.1	29
183	Preparation of polyvinylidene fluoride/cellulose acetate blend membrane with polyethylene glycol additive for apple juice clarification. AIP Conference Proceedings, 2017, , .	0.3	1
184	Application of dopamine-modified halloysite nanotubes/PVDF blend membranes for direct dyes removal from wastewater. Chemical Engineering Journal, 2017, 323, 572-583.	6.6	181

#	ARTICLE	IF	CITATIONS
185	Preparation of superhydrophobic nanocomposite fiber membranes by electrospinning poly(vinylidene fluoride)/polydopamine membranes: self-polymerization of dopamine and the excellent adsorption/separation abilities. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14430-14443.	1.3	37
186	Recent advances in forward osmosis (FO) membrane: Chemical modifications on membranes for FO processes. <i>Desalination</i> , 2017, 419, 101-116.	4.0	176
187	Membrane chromatography for fast enzyme purification, immobilization and catalysis: A renewable biocatalytic membrane. <i>Journal of Membrane Science</i> , 2017, 538, 68-76.	4.1	25
188	Oil and Gas Produced Water Management: A Review of Treatment Technologies, Challenges, and Opportunities. <i>Chemical Engineering Communications</i> , 2017, 204, 990-1005.	1.5	80
189	Preparation of porous hydrophobic poly(vinylidene fluoride-co-hexafluoropropylene) hollow fiber membrane contactors for CO ₂ stripping. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 76, 156-166.	2.7	26
190	Formation of phosphorylated Zr _x Si _{1-x} O ₂ /Al ₂ O ₃ self-assembled membrane for cleaning oily seawater. <i>Journal of Membrane Science</i> , 2017, 536, 28-36.	4.1	10
191	Enhancing the performance of PVDF membranes by hydrophilic surface modification via amine treatment. <i>Separation and Purification Technology</i> , 2017, 185, 94-102.	3.9	80
192	Modeling and Optimization of NLDH/PVDF Ultrafiltration Nanocomposite Membrane Using Artificial Neural Network-Genetic Algorithm Hybrid. <i>ACS Combinatorial Science</i> , 2017, 19, 464-477.	3.8	29
193	Intrinsically superhydrophobic PVDF membrane by phase inversion for membrane distillation. <i>Desalination</i> , 2017, 417, 77-86.	4.0	142
194	Superhydrophobic dual layer functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO ₂ /PH) nanofibrous membrane for high flux membrane distillation. <i>Journal of Membrane Science</i> , 2017, 537, 140-150.	4.1	119
195	Preparation of High-Performance Membranes Derived from Poly(4-methylpentene)/Zinc Oxide Particles. <i>Chemical Engineering and Technology</i> , 2017, 40, 1693-1701.	0.9	18
196	Cellulosic Biomass-Reinforced Polyvinylidene Fluoride Separators with Enhanced Dielectric Properties and Thermal Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20885-20894.	4.0	48
197	Ionically conductive polymer/ceramic separator for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017, 9, 105-111.	9.5	17
198	Dopamine-induced nonionic polymer coatings for significantly enhancing separation and antifouling properties of polymer membranes: Codeposition versus sequential deposition. <i>Journal of Membrane Science</i> , 2017, 539, 421-431.	4.1	57
199	Flexible pyroelectric device for scavenging thermal energy from chemical process and as self-powered temperature monitor. <i>Applied Energy</i> , 2017, 195, 754-760.	5.1	42
200	Effect of solvent on the dipole rotation of poly(vinylidene fluoride) during porous membrane formation by precipitation in alcohol baths. <i>Polymer</i> , 2017, 115, 164-175.	1.8	26
201	Negatively charged polysulfone membranes with hydrophilicity and antifouling properties based on in situ cross-linked polymerization. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 136-143.	5.0	49

#	ARTICLE	IF	CITATIONS
203	Development of smart poly(vinylidene fluoride)-graft-poly(acrylic acid) tree-like nanofiber membrane for pH-responsive oil/water separation. <i>Journal of Membrane Science</i> , 2017, 534, 1-8.	4.1	155
204	Zwitterion-containing polymer additives for fouling resistant ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 533, 141-159.	4.1	103
205	Structuring and characterization of a novel microporous PVDF membrane with semi-interpenetrating polymer networks for vacuum membrane distillation. <i>Polymer Engineering and Science</i> , 2017, 57, 1311-1321.	1.5	10
206	Preparation of poly(vinylidene fluoride) (PVDF)/acetylated poly(vinyl alcohol) ultrafiltration membrane with the enhanced hydrophilicity and the anti-fouling property. <i>Chemical Engineering Research and Design</i> , 2017, 121, 348-359.	2.7	32
207	Porous membranes in secondary battery technologies. <i>Chemical Society Reviews</i> , 2017, 46, 2199-2236.	18.7	357
208	Construction of antifouling lumen surface on a poly(vinylidene fluoride) hollow fiber membrane via a zwitterionic graft copolymerization strategy. <i>Separation and Purification Technology</i> , 2017, 176, 294-305.	3.9	58
209	Thermo-responsive PVDF/PSMA composite membranes with micro/nanoscale hierarchical structures for oil/water emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 305-316.	2.3	39
210	Hybrid Magnetoelectric Nanowires for Nanorobotic Applications: Fabrication, Magnetoelectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery. <i>Advanced Materials</i> , 2017, 29, 1605458.	11.1	193
211	Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600886.	1.9	27
212	Design of poly(vinylidene fluoride)-g-p(hydroxyethyl methacrylate-co-N-isopropylacrylamide) membrane via surface modification for enhanced fouling resistance and release property. <i>Applied Surface Science</i> , 2017, 398, 103-115.	3.1	22
213	Synthesis of Iodo and Telechelic Diiodo Vinylidene Fluoride-Based (Co)polymers by Iodine Transfer Polymerization Initiated by an Innovative Persistent Radical. <i>Macromolecules</i> , 2017, 50, 203-214.	2.2	18
214	Atom Transfer Radical Polymerization with Different Halides (F, Cl, Br, and I): Is the Process "Living" in the Presence of Fluorinated Initiators?. <i>Macromolecules</i> , 2017, 50, 192-202.	2.2	71
215	Solution blown biofunctionalized poly(vinylidene fluoride) nanofibers for application in proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2017, 258, 24-33.	2.6	32
216	Molecular dynamics simulation of membrane in room temperature ionic liquids. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
217	Investigation of the Effect of Nanosilica on Rheological, Thermal, Mechanical, Structural, and Piezoelectric Properties of Poly(vinylidene fluoride) Nanofibers Fabricated Using an Electrospinning Technique. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12596-12607.	1.8	43
218	Novel Halloysite Nanotubes Intercalated Graphene Oxide Based Composite Membranes for Multifunctional Applications: Oil/Water Separation and Dyes Removal. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10472-10481.	1.8	59
219	Hydrophobic interaction membrane chromatography for bioseparation and responsive polymer ligands involved. <i>Frontiers of Materials Science</i> , 2017, 11, 197-214.	1.1	6
220	Transparent PVDF/TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. <i>ChemistrySelect</i> , 2017, 2, 7951-7955.	0.7	14

#	ARTICLE	IF	CITATIONS
221	Structure, morphology and wettability studies on Langmuir-Schaefer multilayer of poly(vinylidene fluoride)/trifluoroethylene copolymer and hydrophobized clay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1828-1836.	2.6	11
222	High diffusion barrier and piezoelectric nanocomposites based on poly(vinylidene fluoride)/trifluoroethylene copolymer and hydrophobized clay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1828-1836.	2.4	1
223	Anion-Responsive Poly(ionic liquid)s Gating Membranes with Tunable Hydrodynamic Permeability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32237-32247.	4.0	25
224	Table Salt as a Template to Prepare Reusable Porous PVDF/MWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. <i>Advanced Functional Materials</i> , 2017, 27, 1702926.	7.8	160
225	PVDF blended PVDF-g-PMAA pH-responsive membrane: Effect of additives and solvents on membrane properties and performance. <i>Journal of Membrane Science</i> , 2017, 541, 558-566.	4.1	38
226	Super-hydrophilic and fouling resistant PVDF ultrafiltration membranes based on a facile prefabricated surface. <i>Journal of Membrane Science</i> , 2017, 541, 529-540.	4.1	52
227	A rotating disk ultrafiltration process for recycling alfalfa wastewater. <i>Separation and Purification Technology</i> , 2017, 188, 476-484.	3.9	7
228	Durable and self-healing superhydrophobic poly(vinylidene fluoride) (PVDF) composite coating with in-situ gas compensation function. <i>Surface and Coatings Technology</i> , 2017, 327, 18-24.	2.2	27
229	Quantitative assessment of interfacial forces between two rough surfaces and its implications for anti-adhesion membrane fabrication. <i>Separation and Purification Technology</i> , 2017, 189, 238-245.	3.9	23
230	Vinylidene Fluoride-Based Polymer Network via Cross-Linking of Pendant Triethoxysilane Functionality for Potential Applications in Coatings. <i>Macromolecules</i> , 2017, 50, 9329-9339.	2.2	20
231	Effects of dope sonication and hydrophilic polymer addition on the properties of low pressure PVDF mixed matrix membranes. <i>Journal of Membrane Science</i> , 2017, 540, 200-211.	4.1	23
232	Preparation of PES/SPSf blend ultrafiltration membranes with high performance via H ₂ O-induced gelation phase separation. <i>Journal of Membrane Science</i> , 2017, 540, 136-145.	4.1	95
233	Graphene and Polymer Composites for Supercapacitor Applications: a Review. <i>Nanoscale Research Letters</i> , 2017, 12, 387.	3.1	218
234	Iron-tannin-framework complex modified PES ultrafiltration membranes with enhanced filtration performance and fouling resistance. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 642-652.	5.0	67
235	Crystallization behavior, tensile behavior and hydrophilicity of poly(vinylidene fluoride)/polyethylene glycol blends. <i>Polymer Science - Series A</i> , 2017, 59, 685-694.	0.4	0
236	Surface Modification of Polyethersulfone Membranes. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2017, , 87-129.	0.3	3
237	Flexible Superamphiphobic Film for Water Energy Harvesting. <i>Advanced Materials Technologies</i> , 2017, 2, 1600186.	3.0	51
238	Synthesis of porous poly(vinylidene fluoride) (PVDF) microspheres and their application in lithium sulfur batteries. <i>Materials Letters</i> , 2017, 188, 180-183.	1.3	10

#	ARTICLE	IF	CITATIONS
239	Preparation, evaluation and modification of PVDF-CTFE hydrophobic membrane for MD desalination application. <i>Desalination</i> , 2017, 402, 162-172.	4.0	38
240	Fundamentals of Membrane Bioreactors. Springer Transactions in Civil and Environmental Engineering, 2017, , .	0.3	28
241	Dual functionalized poly(vinylidene fluoride) membrane with acryloylmorpholine and argatroban to improve antifouling and hemocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 178-188.	2.1	22
242	The effect of casting solution composition on surface structure and performance of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overl... induced phase separation. <i>Journal of Polymer Engineering</i> , 2017, 37, 373-379.	0.6	0
243	Fabrication of highly selective ion imprinted macroporous membranes with crown ether for targeted separation of lithium ion. <i>Separation and Purification Technology</i> , 2017, 175, 19-26.	3.9	94
244	Recent advances in hydrophilic modification of PVDF ultrafiltration membranes â€” a review: part I. <i>Membrane Technology</i> , 2017, 2017, 7-12.	0.5	26
245	Layer-by-layer assembled membranes with immobilized porins. <i>RSC Advances</i> , 2017, 7, 56123-56136.	1.7	11
246	Recent advances in hydrophilic modification of PVDF ultrafiltration membranes â€” a review: part II. <i>Membrane Technology</i> , 2017, 2017, 5-11.	0.5	13
247	1.7 PVDF Hollow Fibers Membranes. , 2017, , 137-189.		10
248	Investigation of Antibacterial and Fouling Resistance of Silver and Multi-Walled Carbon Nanotubes Doped Poly(Vinylidene Fluoride-co-Hexafluoropropylene) Composite Membrane. <i>Membranes</i> , 2017, 7, 35.	1.4	16
249	PVDF Membrane Morphologyâ€™Influence of Polymer Molecular Weight and Preparation Temperature. <i>Polymers</i> , 2017, 9, 718.	2.0	48
250	Improving Liquid Entry Pressure of Polyvinylidene Fluoride (PVDF) Membranes by Exploiting the Role of Fabrication Parameters in Vapor-Induced Phase Separation VIPS and Non-Solvent-Induced Phase Separation (NIPS) Processes. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 181.	1.3	45
251	Preparation of PVDF/SiO2 composite membrane for salty oil emulsion separation: Physicochemical properties changes and its impact on fouling propensity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 206, 012083.	0.3	8
252	3.10 Membrane Distillation and Osmotic Distillation. , 2017, , 282-296.		5
253	Characterization and Antibiofouling Performance Investigation of Hydrophobic Silver Nanocomposite Membranes: A Comparative Study. <i>Membranes</i> , 2017, 7, 64.	1.4	24
254	An iron (II) phthalocyanine/poly(vinylidene fluoride) composite membrane with antifouling property and catalytic self-cleaning function for high-efficiency oil/water separation. <i>Journal of Membrane Science</i> , 2018, 552, 295-304.	4.1	74
255	PVDF/magnetite blend membranes for enhanced flux and salt rejection in membrane distillation. <i>Desalination</i> , 2018, 436, 69-80.	4.0	64
256	The impact of solvents on properties of solution-cast poly(vinylidene fluoride) films for energy storage. <i>Materials Letters</i> , 2018, 219, 201-204.	1.3	13

#	ARTICLE	IF	CITATIONS
257	Evaluation of rheological and thermal properties of polyvinylidene fluoride (PVDF)/graphene nanoplatelets (GNP) composites. <i>Polymer Testing</i> , 2018, 67, 122-135.	2.3	34
258	Polydopamine/cysteine surface modified hemocompatible poly(vinylidene fluoride) hollow fiber membranes for hemodialysis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2869-2877.	1.6	27
259	Effect of Processing Parameters on the Morphology of PVDF Electrospun Nanofiber. <i>Journal of Physics: Conference Series</i> , 2018, 987, 012011.	0.3	10
260	Controlling the Morphology of PVDF Hollow Fiber Membranes by Promotion of Liquid-Liquid Phase Separation. <i>Advanced Engineering Materials</i> , 2018, 20, 1701169.	1.6	6
261	Preparation of 3D graphene/iron oxides aerogels based on high-gravity intensified reactive precipitation and their applications for photo-Fenton reaction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 129, 77-83.	1.8	17
262	Enhancing water permeability and fouling resistance of polyvinylidene fluoride membranes with carboxylated nanodiamonds. <i>Journal of Membrane Science</i> , 2018, 556, 154-163.	4.1	96
263	Advances in forward osmosis membranes: Altering the sub-layer structure via recent fabrication and chemical modification approaches. <i>Desalination</i> , 2018, 436, 176-201.	4.0	115
264	Poly(vinylidene fluoride)-Based Membranes for Microalgae Filtration. <i>Chemical Engineering and Technology</i> , 2018, 41, 1305-1312.	0.9	15
265	Preparation of poly(vinyl chloride) (PVC) ultrafiltration membranes from PVC/additive/solvent and application of UF membranes as substrate for fabrication of reverse osmosis membranes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46267.	1.3	14
266	A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , 2018, 81, 209-237.	11.8	483
267	Electrospun Antimicrobial PVDF-EDTAB Nanofibrous Membrane for Air Filtration: Effect of DTAB on Structure, Morphology, Adhesion, and Antibacterial Properties. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700415.	1.7	21
268	Synthesis and properties of poly(trifluoroethylene) via a persistent radical mediated polymerization of trifluoroethylene. <i>Polymer Chemistry</i> , 2018, 9, 894-903.	1.9	5
269	One-step transformation of highly hydrophobic membranes into superhydrophilic and underwater superoleophobic ones for high-efficiency separation of oil-in-water emulsions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3391-3396.	5.2	257
270	Investigation of the effect of coagulation bath composition on PVDF/CA membrane by evaluating critical flux and antifouling properties in lab-scale submerged MBR. <i>Water and Environment Journal</i> , 2018, 32, 366-376.	1.0	13
271	Preparation of PVDF/PTFE hollow fiber membranes for direct contact membrane distillation via thermally induced phase separation method. <i>Desalination</i> , 2018, 430, 86-97.	4.0	68
272	Alginate dialdehyde meets nylon membrane: a versatile platform for facile and green fabrication of membrane adsorbers. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1640-1649.	2.9	12
273	Synthesis of CoFe Prussian blue analogue/poly vinylidene fluoride nanocomposite material with improved thermal stability and ferroelectric properties. <i>New Journal of Chemistry</i> , 2018, 42, 4567-4578.	1.4	19
274	A comprehensive study on the performance and antifouling enhancement of the PVDF mixed matrix membranes by embedding different nanoparticulates: Clay, functionalized carbon nanotube, SiO ₂ and TiO ₂ . <i>Separation and Purification Technology</i> , 2018, 197, 372-381.	3.9	130

#	ARTICLE	IF	CITATIONS
275	Design of UV-absorbing PVDF membrane via surface-initiated AGET ATRP. Applied Surface Science, 2018, 435, 680-686.	3.1	29
276	High performance of fluoro polymer modified by hexa-titanium boride nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 4749-4769.	1.1	11
277	An overview on membrane strategies for rare earths extraction and separation. Separation and Purification Technology, 2018, 197, 70-85.	3.9	115
278	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. Journal of Membrane Science, 2018, 550, 18-25.	4.1	35
279	Sandwich-structured composite fibrous membranes with tunable porous structure for waterproof, breathable, and oil-water separation applications. Journal of Colloid and Interface Science, 2018, 514, 386-395.	5.0	60
280	Improvement in fouling resistance of silver-graphene oxide coated polyvinylidene fluoride membrane prepared by pressurized filtration. Separation and Purification Technology, 2018, 194, 161-169.	3.9	45
281	A facile strategy to prepare superhydrophilic polyvinylidene fluoride (PVDF) based membranes and the thermodynamic mechanisms underlying the improved performance. Separation and Purification Technology, 2018, 197, 271-280.	3.9	20
282	High-efficiency and conveniently recyclable photo-catalysts for dye degradation based on urchin-like CuO microparticle/polymer hybrid composites. Applied Surface Science, 2018, 439, 784-791.	3.1	19
283	Facile sol-gel coating process for anti-biofouling modification of poly (vinylidene fluoride) microfiltration membrane based on novel zwitterionic organosilica. Journal of Membrane Science, 2018, 550, 266-277.	4.1	37
284	Preparation of PVDF-CTFE hydrophobic membrane by non-solvent induced phase inversion: Relation between polymorphism and phase inversion. Journal of Membrane Science, 2018, 550, 480-491.	4.1	43
285	Challenges and Perspectives in Alkaline Direct Ethanol Fuel Cells. Lecture Notes in Energy, 2018, , 325-346.	0.2	0
286	Nanocomposite Protective Coatings Fabricated by Electrostatic Spray Method. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 192-221.	0.3	9
287	Tailoring nonsolvent-thermally induced phase separation (N-TIPS) effect using triple spinneret to fabricate high performance PVDF hollow fiber membranes. Journal of Membrane Science, 2018, 559, 117-126.	4.1	87
288	A high-efficiency ultrafiltration nanofibrous membrane with remarkable antifouling and antibacterial ability. Journal of Materials Chemistry A, 2018, 6, 15191-15199.	5.2	52
289	Synthesis of Ag@SiO ₂ -APTES Nanocomposites by Blending Poly(Vinylidene Fluoride) Membrane with Potential Applications on Dye Wastewater Treatment. Nano, 2018, 13, 1850034.	0.5	10
290	Wetting phenomena in membrane distillation: Mechanisms, reversal, and prevention. Water Research, 2018, 139, 329-352.	5.3	498
291	Do ZnO and Al ₂ O ₃ Nanoparticles Improve the Anti-Bacterial Properties of Cellulose Acetate-Chitosan Membrane?. MATEC Web of Conferences, 2018, 156, 08009.	0.1	6
292	Electrospun PU@GO separators for advanced lithium ion batteries. Journal of Membrane Science, 2018, 555, 1-6.	4.1	97

#	ARTICLE	IF	CITATIONS
293	Wide liquid-liquid phase separation region enhancing tensile strength of poly(vinylidene fluoride) membranes via TIPS method with a new diluent. <i>Polymer</i> , 2018, 141, 46-53.	1.8	44
294	Electroactive poly(vinylidene fluoride)-based structures for advanced applications. <i>Nature Protocols</i> , 2018, 13, 681-704.	5.5	466
295	Evaluation of liquid transport properties of hydrophobic polymers of intrinsic microporosity by electrical resistance measurement. <i>Journal of Membrane Science</i> , 2018, 554, 346-356.	4.1	8
296	High performance aqueous symmetric supercapacitors based on advanced carbon electrodes and hydrophilic poly(vinylidene fluoride) porous separator. <i>Applied Surface Science</i> , 2018, 443, 412-420.	3.1	33
297	Anion Exchange Membrane Fuel Cells. <i>Lecture Notes in Energy</i> , 2018, , .	0.2	7
298	Two-step thermoresponsive membrane with tunable separation properties and improved cleaning efficiency. <i>Journal of Membrane Science</i> , 2018, 554, 117-124.	4.1	21
299	Engineering a self-driven PVDF/PDA hybrid membranes based on membrane micro-reactor effect to achieve super-hydrophilicity, excellent antifouling properties and hemocompatibility. <i>Applied Surface Science</i> , 2018, 444, 672-690.	3.1	51
300	Preparation and characterization of functional poly(vinylidene fluoride) (PVDF) membranes with ultraviolet-absorbing property. <i>Applied Surface Science</i> , 2018, 444, 497-504.	3.1	16
301	Hydrophilic Modification of PVDF Microfiltration Membrane with Poly (Ethylene Glycol) Dimethacrylate through Surface Polymerization. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 108-117.	1.9	24
302	Removal of glyphosate and aminomethylphosphonic acid from synthetic water by nanofiltration. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1384-1392.	1.2	22
303	Hydrophilic modifications of PVDF membranes via swift heavy ion irradiations. <i>Surface Engineering</i> , 2018, 34, 158-164.	1.1	6
304	Application of ABS membranes in dynamic filtration for <i>Chlorella sorokiniana</i> dewatering. <i>Biomass and Bioenergy</i> , 2018, 111, 224-231.	2.9	15
305	Electrospun poly(vinylidene fluoride) membranes functioning as static charge storage device with controlled crystalline phase by inclusions of nanoscale graphite platelets. <i>Journal of Materials Science</i> , 2018, 53, 3038-3048.	1.7	10
306	Enhancing CO ₂ absorption efficiency using a novel PTFE hollow fiber membrane contactor at elevated pressure. <i>AIChE Journal</i> , 2018, 64, 2135-2145.	1.8	18
307	Fast and facile fabrication of antifouling and hemocompatible PVDF membrane tethered with amino-acid modified PEG film. <i>Applied Surface Science</i> , 2018, 428, 41-53.	3.1	42
308	Separation and antifouling properties of hydrolyzed PAN hybrid membranes prepared via in-situ sol-gel SiO ₂ nanoparticles growth. <i>Journal of Membrane Science</i> , 2018, 545, 250-258.	4.1	52
309	Ultra-high flux of polydopamine-coated PVDF membranes quenched in air via thermally induced phase separation for oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2018, 192, 348-359.	3.9	88
310	PVDF ultrafiltration membranes of controlled performance via blending PVDF-g-PEGMA copolymer synthesized under different reaction times. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	21

#	ARTICLE	IF	CITATIONS
311	PEG-CNTs nanocomposite PSU membranes for wastewater treatment by membrane bioreactor. Separation and Purification Technology, 2018, 190, 165-176.	3.9	74
312	Fabrication of blend polyvinylidene fluoride/chitosan membranes for enhanced flux and fouling resistance. Separation and Purification Technology, 2018, 190, 68-76.	3.9	61
313	Preparation and characterization of amphiphilic copolymer PVDF-g-PMABS and its application in improving hydrophilicity and protein fouling resistance of PVDF membrane. Applied Surface Science, 2018, 427, 787-797.	3.1	60
314	Recycling of phenol from aqueous solutions by pervaporation with ZSM-5/PDMS/PVDF hollow fiber composite membrane. Applied Surface Science, 2018, 427, 288-297.	3.1	38
315	Fabrication of highly efficient ultraviolet absorbing PVDF membranes via surface polydopamine deposition. Journal of Applied Polymer Science, 2018, 135, 45746.	1.3	19
316	Comparative study of PVDF-HFP-curcumin porous structures produced by supercritical assisted processes. Journal of Supercritical Fluids, 2018, 133, 270-277.	1.6	30
317	Metal cation removal by P(VC-r-AA) copolymer ultrafiltration membranes. Frontiers of Chemical Science and Engineering, 2018, 12, 262-272.	2.3	5
318	PVDF modified Pd-SnO ₂ hydrogen sensor with stable response under high humidity. Materials Letters, 2018, 212, 283-286.	1.3	13
319	Progress and perspectives in PTFE membrane: Preparation, modification, and applications. Journal of Membrane Science, 2018, 549, 332-349.	4.1	249
320	Non-woven PET fabric reinforced and enhanced the performance of ultrafiltration membranes composed of PVDF blended with PVDF-g-PEGMA for industrial applications. Applied Surface Science, 2018, 435, 1072-1079.	3.1	36
321	Static adsorption of protein-polysaccharide hybrids on hydrophilic modified membranes based on atomic layer deposition: Anti-fouling performance and mechanism insight. Journal of Membrane Science, 2018, 548, 470-480.	4.1	38
322	Enhancing proton conductivity via sub-micron structures in proton conducting membranes originating from sulfonated PVDF powder by radiation-induced grafting. Solid State Ionics, 2018, 314, 66-73.	1.3	23
323	PDMS/PVDF microporous membrane with semi-interpenetrating polymer networks for vacuum membrane distillation. Journal of Applied Polymer Science, 2018, 135, 45792.	1.3	11
324	Chitosan/partially sulfonated poly(vinylidene fluoride) blends as polymer electrolyte membranes for direct methanol fuel cell applications. Cellulose, 2018, 25, 661-681.	2.4	39
325	Magnetic field induced orderly arrangement of Fe ₃ O ₄ /GO composite particles for preparation of Fe ₃ O ₄ /GO/PVDF membrane. Journal of Membrane Science, 2018, 548, 184-193.	4.1	79
326	Antioxidation performance of poly(vinyl alcohol) modified poly(vinylidene fluoride) membranes. Applied Surface Science, 2018, 435, 229-236.	3.1	9
327	Enhancement of hydrophilicity and the resistance for irreversible fouling of polysulfone (PSF) membrane immobilized with graphene oxide (GO) through chloromethylated and quaternized reaction. Chemical Engineering Journal, 2018, 334, 2068-2078.	6.6	57
328	Effect of electron beam irradiation on structural and thermal properties of gamma poly (vinylidene) Tj ETQq1 1 0.784314 rgBT ₁₉ /Overlock	1.4	19

#	ARTICLE	IF	CITATIONS
329	Impacts of sodium hydroxide and sodium hypochlorite aging on polyvinylidene fluoride membranes fabricated with different methods. <i>Journal of Environmental Sciences</i> , 2018, 67, 294-308.	3.2	33
330	Improved antifouling performance of ultrafiltration membrane via preparing novel zwitterionic polyimide. <i>Applied Surface Science</i> , 2018, 427, 38-47.	3.1	62
331	Efficient <i>in situ</i> generation of H ₂ O ₂ by novel magnesium-carbon nanotube composites. <i>RSC Advances</i> , 2018, 8, 35179-35186.	1.7	11
332	Tailoring both the surface pore size and sub-layer structures of PVDF membranes prepared by the TIPS process with a triple orifice spinneret. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20712-20724.	5.2	30
333	Hydrophilicity, pore structure and mechanical performance of CNT/PVDF materials affected by carboxyl contents in multi-walled carbon nanotubes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 284, 012009.	0.3	0
334	Preparation and characterization of PVDF/Starch nanocomposite nanofibers using electrospinning method. <i>Materials Today: Proceedings</i> , 2018, 5, 15613-15619.	0.9	18
335	PVDF based ionogels: applications towards electrochemical devices and membrane separation processes. <i>Heliyon</i> , 2018, 4, e00847.	1.4	37
336	Properties and Common Industrial Applications of Polyvinyl fluoride (PVF) and Polyvinylidene fluoride (PVDF). <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 409, 012021.	0.3	19
337	Surface Modification of Poly(vinylidene fluoride) Ultrafiltration Membranes with Chitosan for Anti-Fouling and Antibacterial Performance. <i>Macromolecular Research</i> , 2018, 26, 1225-1232.	1.0	18
338	Effect of dope solution temperature on the membrane structure and membrane distillation performance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 140, 012032.	0.2	5
339	Enhancing the Antifouling Properties of Poly(vinylidene fluoride) (PVDF) Membrane through a Novel Blending and Surface-Grafting Modification Approach. <i>ACS Omega</i> , 2018, 3, 17403-17415.	1.6	26
340	Exploiting the Interplay between Liquid-Liquid Demixing and Crystallization of the PVDF Membrane for Membrane Distillation. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-10.	1.2	14
341	Green production of bio-ethanol from cellulosic fiber waste and its separation using polyacrylonitrile-co-poly methyl acrylate membrane. <i>Cellulose</i> , 2018, 25, 6621-6644.	2.4	15
342	Preparation of CuONPs@PVDF/Non-Woven Polyester Composite Membrane: Structural Influence of Nanoparticle Addition. <i>Polymers</i> , 2018, 10, 862.	2.0	14
343	Desalination. <i>Polymers and Polymeric Composites</i> , 2018, , 1-34.	0.6	1
344	Fabrication of novel aromatic amine functionalized nanofiltration (NF) membranes and testing its dye removal and desalting ability. <i>Polymer Testing</i> , 2018, 72, 1-10.	2.3	28
345	A Comprehensive Review on Polymeric Nano-Composite Membranes for Water Treatment. <i>Journal of Membrane Science & Technology</i> , 2018, 08, .	0.5	158
346	Antibacterial blend polyvinylidene fluoride/polyethyleneimine membranes for salty oil emulsion separation. <i>European Polymer Journal</i> , 2018, 108, 542-553.	2.6	11

#	ARTICLE	IF	CITATIONS
347	Temperature Dependence of the Pore Structure in Polyvinylidene Fluoride (PVDF)/Graphene Composite Membrane Probed by Electrochemical Impedance Spectroscopy. <i>Polymers</i> , 2018, 10, 1123.	2.0	15
348	High Performance Titanium Antimonide TiSb ₂ Alloy for Na-Ion Batteries and Capacitors. <i>Chemistry of Materials</i> , 2018, 30, 8155-8163.	3.2	36
349	Preparation of UV-Blocking Poly(vinylidene fluoride) Films through SI-AGET ATRP Using a Colorless Polydopamine Initiator Layer. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12662-12669.	1.8	21
350	Molecular Dynamics Study on Wettability of Poly(vinylidene fluoride) Crystalline and Amorphous Surfaces. <i>Langmuir</i> , 2018, 34, 12214-12223.	1.6	22
351	Functionalized Polyvinylidene Fluoride Electrospun Nanofibers and Applications. , 2018, , .		7
352	Plasma Modification and Synthesis of Membrane Materials—A Mechanistic Review. <i>Membranes</i> , 2018, 8, 56.	1.4	55
353	Facile synthesis and characterization of cross-linked chitosan quaternary ammonium salt membrane for antibacterial coating of piezoelectric sensors. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 745-752.	3.6	38
354	Coupling effect of PVDF molar mass and carboxyl content in CNTs on microstructure and thermal properties of CNT/PVDF composites. <i>Materials Research Express</i> , 2018, 5, 065031.	0.8	3
355	Segregation-induced in situ hydrophilic modification of poly (vinylidene fluoride) ultrafiltration membranes via sticky poly (ethylene glycol) blending. <i>Journal of Membrane Science</i> , 2018, 563, 22-30.	4.1	159
356	Electrospun Filters for Oil/Water Separation. , 2018, , 151-173.		1
357	Fabrication of novel Janus membrane by nonsolvent thermally induced phase separation (NTIPS) for enhanced performance in membrane distillation. <i>Journal of Membrane Science</i> , 2018, 563, 298-308.	4.1	68
358	Frequency dependence of electrical properties of polyvinylidene fluoride/graphite electrode waste/natural carbon black composite. <i>Journal of Physics: Conference Series</i> , 2018, 985, 012051.	0.3	1
359	Hydrophilic modification and anti-fouling properties of PVDF membrane via in situ nano-particle blending. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25227-25242.	2.7	18
360	Recent advances and perspectives in polymer-based nanomaterials for Cr(VI) removal. , 2018, , 29-46.		8
361	Surface hydrophilic modification of PVDF membranes by trace amounts of tannin and polyethyleneimine. <i>Applied Surface Science</i> , 2018, 457, 695-704.	3.1	74
362	Membrane fouling mitigation by coupling applied electric field in membrane system: Configuration, mechanism and performance. <i>Electrochimica Acta</i> , 2018, 287, 124-134.	2.6	68
363	High-flux PVDF membrane incorporated with cyclodextrin modified halloysite nanotubes for dye rejection and Cu (II) removal from water. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2704-2714.	1.6	18
364	New insights in poly(vinylidene fluoride) (PVDF) membrane hemocompatibility: Synergistic effect of PVDF-g-(acryloyl morpholine) and PVDF-g-(poly(acrylic acid)-argatroban) copolymers. <i>Applied Surface Science</i> , 2018, 457, 170-178.	3.1	32

#	ARTICLE	IF	CITATIONS
365	Highly permeable PVDF membrane with PS/ZnO nanocomposite incorporated for distillation process. RSC Advances, 2018, 8, 23499-23515.	1.7	29
366	New strategy of grafting hydroxyethyl acrylate (HEA) via γ ray radiation to modify polyvinylidene fluoride (PVDF) membrane: Thermodynamic mechanisms of the improved antifouling performance. Separation and Purification Technology, 2018, 207, 83-91.	3.9	32
367	Recent advances in hydrophilic modification and performance of polyethersulfone (PES) membrane via additive blending. RSC Advances, 2018, 8, 22710-22728.	1.7	97
368	Tannic acid encountering ovalbumin: a green and mild strategy for superhydrophilic and underwater superoleophobic modification of various hydrophobic membranes for oil/water separation. Journal of Materials Chemistry A, 2018, 6, 13959-13967.	5.2	107
369	Synthesis and crystalline properties of CdS incorporated polyvinylidene fluoride (PVDF) composite film. AIP Conference Proceedings, 2018, , .	0.3	2
370	Fouling-free ultrafiltration for humic acid removal. RSC Advances, 2018, 8, 24961-24969.	1.7	12
371	Surface Oxidation of Ethylenechlorotrifluoroethylene (ECTFE) Membrane for the Treatment of Real Produced Water by Membrane Distillation. International Journal of Environmental Research and Public Health, 2018, 15, 1561.	1.2	17
372	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. Advanced Functional Materials, 2018, 28, 1801944.	7.8	256
373	Bicontinuous and cellular structure design of PVDF membranes by using binary solvents for the membrane distillation process. RSC Advances, 2018, 8, 25159-25167.	1.7	18
374	Porous (PVDF-HFP/PANI/GO) ternary hybrid polymer electrolyte membranes for lithium-ion batteries. RSC Advances, 2018, 8, 25725-25733.	1.7	50
375	Preparation and lubricating properties of poly(vinylidene-fluoride) particles wrapped by reduced graphene oxide. Tribology International, 2018, 127, 351-360.	3.0	21
376	Right filter-selection for phase separation in equilibrium solubility measurement. European Journal of Pharmaceutical Sciences, 2018, 123, 98-105.	1.9	13
377	A novel strategy to develop antifouling and antibacterial conductive Cu/polydopamine/polyvinylidene fluoride membranes for water treatment. Journal of Colloid and Interface Science, 2018, 531, 493-501.	5.0	68
378	Electrospinning superhydrophobic nanofibrous poly(vinylidene fluoride)/stearic acid coatings with excellent corrosion resistance. Thin Solid Films, 2018, 657, 88-94.	0.8	63
379	Critical Evaluation of Thermal, Optical and Morphological Properties of V, S and Dy Doped-ZnO/PVDF/Functionalized-PMMA Blended Nanocomposites. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2121-2130.	1.9	11
380	Highly efficient removal of fluoride from aqueous media through polymer composite membranes. Separation and Purification Technology, 2018, 205, 1-10.	3.9	32
381	Synthesis of Well-Defined PVDF-Based Amphiphilic Block Copolymer via Iodine Transfer Polymerization for Antifouling Membrane Application. Industrial & Engineering Chemistry Research, 2018, 57, 8689-8697.	1.8	18
382	Biomimetic Silicification on Membrane Surface for Highly Efficient Treatments of Both Oil-in-Water Emulsion and Protein Wastewater. ACS Applied Materials & Interfaces, 2018, 10, 29982-29991.	4.0	101

#	ARTICLE	IF	CITATIONS
383	Ionic liquid functionalized electrospun gel polymer electrolyte for use in a high-performance lithium metal battery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18479-18487.	5.2	55
384	Fabrication of a loose nanofiltration candidate from Polyacrylonitrile/Graphene oxide hybrid membrane via thermally induced phase separation. <i>Journal of Hazardous Materials</i> , 2018, 360, 122-131.	6.5	64
385	Processing-Driven Morphology Development and Crystallization Behavior of Immiscible Polylactide/Poly(Vinylidene Fluoride) Blends. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800349.	1.7	17
386	A study on fabrication of PVDF-HFP/PTFE blend membranes with controllable and bicontinuous structure for highly effective water-in-oil emulsion separation. <i>RSC Advances</i> , 2018, 8, 27754-27762.	1.7	25
387	New insight into the adsorption behaviour of effluent organic matter on organic-inorganic ultrafiltration membranes: a combined QCM-D and AFM study. <i>Royal Society Open Science</i> , 2018, 5, 180586.	1.1	15
388	Tailoring PVDF Membranes Surface Topography and Hydrophobicity by a Sustainable Two-Steps Phase Separation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10069-10077.	3.2	47
389	Photothermally Enabled Pyro-Catalysis of a BaTiO ₃ Nanoparticle Composite Membrane at the Liquid/Air Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21246-21253.	4.0	48
390	Tackling membrane fouling in microalgae filtration using nylon 6,6 nanofiber membrane. <i>Journal of Environmental Management</i> , 2018, 223, 23-28.	3.8	43
391	Solvent vapor treatment improves mechanical strength of electrospun polyvinyl alcohol nanofibers. <i>Heliyon</i> , 2018, 4, e00592.	1.4	70
392	Ionic liquids for the control of the morphology in poly(vinylidene fluoride-co-hexafluoropropylene) membranes. <i>Materials and Design</i> , 2018, 155, 325-333.	3.3	25
393	Membrane properties in membrane distillation. , 2018, , 107-156.		52
394	Tubular hydrophobic ceramic membrane with asymmetric structure for water desalination via vacuum membrane distillation process. <i>Desalination</i> , 2018, 443, 212-220.	4.0	70
395	Efficient preparation of a novel PVDF antifouling membrane based on the solvent-responsive cleaning properties. <i>Separation and Purification Technology</i> , 2019, 210, 100-106.	3.9	25
396	Maneuvering surface structures of polyvinylidene fluoride nanofibers by controlling solvent systems and polymer concentration. <i>Textile Research Journal</i> , 2019, 89, 2406-2422.	1.1	43
397	Ultrafiltration membranes modified by PSS deposition and plasma treatment for Cr(VI) removal. <i>Separation and Purification Technology</i> , 2019, 210, 371-381.	3.9	27
398	Highly selective core-shell structural membrane with cage-shaped pores for flow battery. <i>Energy Storage Materials</i> , 2019, 17, 325-333.	9.5	17
399	Modification of PVDF membrane by two-dimensional inorganic additive for improving gas permeation. <i>Separation Science and Technology</i> , 2019, 54, 311-328.	1.3	21
400	Hydrophilically modified poly(vinylidene fluoride) nanofibers incorporating cellulose acetate fabricated by colloidal electrospinning for future tissue regeneration applications. <i>Polymer Composites</i> , 2019, 40, 1619-1630.	2.3	5

#	ARTICLE	IF	CITATIONS
401	Mechanical properties of polymeric microfiltration membranes. <i>Journal of Membrane Science</i> , 2019, 591, 117351.	4.1	44
402	Effect of polymer loading on superhydrophobic PVDF/TiO ₂ supported membrane for membrane distillation. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
403	Captive-air-bubble aerophobicity measurements of antibiofouling coatings for underwater MEMS devices. <i>Nanomaterials and Nanotechnology</i> , 2019, 9, 184798041986207.	1.2	20
404	Electrospun Cu ²⁺ Deposited Flexible Fibers as an Efficient Oxygen Evolution Reaction Electrocatalyst. <i>ChemPhysChem</i> , 2019, 20, 2973-2980.	1.0	7
405	A facile approach to enhance performance of PVDF-matrix nanocomposite membrane via manipulating migration behavior of graphene oxide. <i>Journal of Membrane Science</i> , 2019, 590, 117268.	4.1	24
406	Non-Resorbable Nanocomposite Membranes for Guided Bone Regeneration Based On Polysulfone-Quartz Fiber Grafted with Nano-TiO ₂ . <i>Nanomaterials</i> , 2019, 9, 985.	1.9	21
407	Biomimetic hydrophilization engineering on membrane surface for highly-efficient water purification. <i>Journal of Membrane Science</i> , 2019, 589, 117223.	4.1	90
408	A Facile, Environmentally Friendly, and Low-Temperature Approach for Decomposition of Polyvinylidene Fluoride from the Cathode Electrode of Spent Lithium-ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12799-12806.	3.2	75
409	A Review on Porous Polymeric Membrane Preparation. Part I: Production Techniques with Polysulfone and Poly (Vinylidene Fluoride). <i>Polymers</i> , 2019, 11, 1160.	2.0	224
410	Enhanced permeability and fouling-resistant capacity of poly(vinylidene fluoride) ultrafiltration membrane based on the PPG-co-PEG-co-PPG copolymer with two hydrophobic terminals and one hydrophilic intermediate. <i>Water Science and Technology</i> , 2019, 79, 2068-2078.	1.2	3
411	Alleviating membrane fouling of modified polysulfone membrane via coagulation pretreatment/ultrafiltration hybrid process. <i>Chemosphere</i> , 2019, 235, 58-69.	4.2	37
412	Distinction between polymeric and ceramic membrane in AnMBR treating municipal wastewater: In terms of irremovable fouling. <i>Journal of Membrane Science</i> , 2019, 588, 117229.	4.1	47
413	A comprehensive investigation of particle effect on the mechanical property, hydrophobicity and permeability of polymer composite membranes based on a chain model. <i>Journal of Membrane Science</i> , 2019, 590, 117302.	4.1	4
414	A low-toxicity and high-efficiency deep eutectic solvent for the separation of aluminum foil and cathode materials from spent lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2019, 380, 120846.	6.5	127
415	A solution for trade-off phenomenon based on symmetric-like membrane with nano-scale pore structure. <i>Separation and Purification Technology</i> , 2019, 227, 115693.	3.9	3
416	Nanoscale zero-valent iron (nZVI) immobilization onto graphene oxide (GO)-incorporated electrospun polyvinylidene fluoride (PVDF) nanofiber membrane for groundwater remediation via gravity-driven membrane filtration. <i>Science of the Total Environment</i> , 2019, 688, 787-796.	3.9	42
417	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. <i>Separation and Purification Technology</i> , 2019, 228, 115793.	3.9	50
418	Influence of Cation and Anion Type on the Formation of the Electroactive β -Phase and Thermal and Dynamic Mechanical Properties of Poly(vinylidene fluoride)/Ionic Liquids Blends. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27917-27926.	1.5	50

#	ARTICLE	IF	CITATIONS
419	Fabrication of palygorskite coated membrane for multifunctional oil-in-water emulsions separation. <i>Applied Clay Science</i> , 2019, 182, 105295.	2.6	19
420	Superhydrophobic antibacterial polymer coatings. , 2019, , 245-279.		8
421	Hydrophilic poly(vinylidene fluoride)/bentonite hybrid membranes for microfiltration of dyes. <i>Materials Research Express</i> , 2019, 6, 105376.	0.8	12
422	Instrumentation influence: a study about the intrusiveness level caused by a single PVDF in a flexible dynamic system. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	1
423	Environmentally friendly electrostatically driven self-assembled LDH/GO/PVDF composite membrane for water treatment. <i>Applied Clay Science</i> , 2019, 183, 105322.	2.6	47
424	Fabrication of robust, ultrathin and light weight, hydrophilic, PVDF-CNT membrane composite for salt rejection. <i>Composites Part B: Engineering</i> , 2019, 160, 632-643.	5.9	49
425	Electrospun polyvinylidene fluoride-based fibrous nanocomposite membranes reinforced by cellulose nanocrystals for efficient separation of water-in-oil emulsions. <i>Journal of Membrane Science</i> , 2019, 575, 71-79.	4.1	68
426	Investigation of the effect of nanosilica on mechanical, structural, and fracture toughness of polyvinylidene fluoride films. <i>Materials Research Express</i> , 2019, 6, 105369.	0.8	4
427	The ultra-flexible films of super conductive carbon black/poly(vinylidene fluoride) as electrothermal materials. <i>Materials Research Express</i> , 2019, 6, 116402.	0.8	4
428	Surface modification of polysulfone ultrafiltration membranes by free radical graft polymerization of acrylic acid using response surface methodology. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	22
429	Facile preparation of antifouling hydrogel architectures for drag reduction and oil/sea water separation. <i>Materials Today Communications</i> , 2019, 21, 100618.	0.9	4
430	Synthesis of a Hominal Bis(difluoromethyl) Fragment. <i>ACS Omega</i> , 2019, 4, 14140-14150.	1.6	4
431	Factors controlling arsenic contamination and potential remediation measures in soil-plant systems. <i>Groundwater for Sustainable Development</i> , 2019, 9, 100263.	2.3	28
432	Influence of TiO ₂ nanoparticles loading on permeability and antifouling properties of nanocomposite polymeric membranes: experimental and statistical analysis. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	9
433	k-Carrageenan “ A versatile biopolymer for the preparation of a hydrophilic PVDF composite membrane. <i>European Polymer Journal</i> , 2019, 120, 109219.	2.6	27
434	Fabrication of a new PVDF/SbSI nanowire composite for smart wearable textile. <i>Polymer</i> , 2019, 180, 121729.	1.8	22
435	Synthesis and electrochemical performance of poly(vinylidene fluoride)/SiO ₂ hybrid membrane for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 519-527.	1.2	28
436	Recent Developments in Nanofiltration for Food Applications. , 2019, , 101-120.		7

#	ARTICLE	IF	CITATIONS
437	Process performance and multi-kinetic modeling of a membrane bioreactor treating actual oil refinery wastewater. <i>Journal of Water Process Engineering</i> , 2019, 28, 115-122.	2.6	24
438	Ag-Nanoparticle-Bearing Poly(vinylidene fluoride) Nanofiber Mats as Janus Filters for Catalysis and Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7397-7404.	4.0	39
439	Surface grafting of zwitterionic and PEGylated cross-linked polymers toward PVDF membranes with ultralow protein adsorption. <i>Polymer</i> , 2019, 167, 1-12.	1.8	28
440	A novel silsesquioxanes modified electrospun composite fibrous separator by in-situ crosslinking method for lithium-ion batteries. <i>Materials Letters</i> , 2019, 242, 66-70.	1.3	11
441	Motile Piezoelectric Nanoeels for Targeted Drug Delivery. <i>Advanced Functional Materials</i> , 2019, 29, 1808135.	7.8	66
442	Surface Functionalization of Graphene-Based Nanocomposites by Chemical Reaction. , 2019, , 21-45.		3
443	Facile modification of polysulfone hollow fiber membranes via the incorporation of well dispersed iron oxide nanoparticles for protein purification. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47502.	1.3	21
444	Quaternized Amphiphilic Block Copolymers/Graphene Oxide and a Poly(vinyl alcohol) Coating Layer on Graphene Oxide/Poly(vinylidene fluoride) Electrospun Nanofibers for Superhydrophilic and Antibacterial Properties. <i>Scientific Reports</i> , 2019, 9, 383.	1.6	27
445	ECTFE membrane fabrication via TIPS method using ATBC diluent for vacuum membrane distillation. <i>Desalination</i> , 2019, 456, 13-22.	4.0	61
446	Fabrication of a novel polyvinylidene fluoride membrane via binding SiO ₂ nanoparticles and a copper ferrocyanide layer onto a membrane surface for selective removal of cesium. <i>Journal of Hazardous Materials</i> , 2019, 368, 292-299.	6.5	40
447	Nano CuAl ₂ O ₄ spinel mineral as a novel antibacterial agent for PVDF membrane modification with minimized copper leachability. <i>Journal of Hazardous Materials</i> , 2019, 368, 421-428.	6.5	28
448	Preparation and Characterization of UV-absorbing PVDF Membranes via Pre-irradiation Induced Graft Polymerization. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 493-499.	2.0	7
449	Porous poly(vinylidene fluoride) membranes with tailored properties by fast and scalable non-solvent vapor induced phase separation. <i>Journal of Membrane Science</i> , 2019, 577, 69-78.	4.1	41
450	Amino-functionalized mesoporous PVA/SiO ₂ hybrids coated membrane for simultaneous removal of oils and water-soluble contaminants from emulsion. <i>Chemical Engineering Journal</i> , 2019, 374, 1394-1402.	6.6	58
451	Enhanced flux in direct contact membrane distillation using superhydrophobic PVDF nanofibre membranes embedded with organically modified SiO ₂ nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2826-2837.	1.6	44
452	Solar thermal desalination as a nonlinear optical process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13182-13187.	3.3	74
453	Preparation of PVDF/TiO ₂ nanofibers with enhanced piezoelectric properties for geophone applications. <i>Smart Materials and Structures</i> , 2019, 28, 085006.	1.8	17
454	Inclusion of water and KDP as a mechanism for controlling structural and dielectric parameters in PVDF films. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	2

#	ARTICLE	IF	CITATIONS
455	Fabrication of high flux and fouling resistant membrane: A unique hydrophilic blend of polyvinylidene fluoride/polyethylene glycol/polymethyl methacrylate. <i>Polymer</i> , 2019, 179, 121593.	1.8	50
456	Low band-gap energy photocatalytic membrane based on SrTiO ₃ â€‘Cr and PVDF substrate: BSA protein degradation and separation application. <i>Journal of Membrane Science</i> , 2019, 586, 326-337.	4.1	23
457	Design, performance characterization and hydrodynamic modeling of intermeshed spinning basket membrane (ISBM) module. <i>Chemical Engineering Science</i> , 2019, 206, 446-462.	1.9	6
458	Amphiphilic PVDFâ€‘g â€‘PDMAEMA ultrafiltration membrane with enhanced hydrophilicity and antifouling properties. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48049.	1.3	18
459	Investigation of size and medium effects on antimicrobial properties by CuCr ₂ O ₄ nanoparticles and silicone rubber or PVDF. <i>Materials Research Express</i> , 2019, 6, 085412.	0.8	9
460	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
461	Electrospun nanofiber supported optodes: scaling down the receptor layer thickness to nanometers â€‘ towards 2D optodes. <i>Analyst, The</i> , 2019, 144, 4667-4676.	1.7	16
462	Surface modification of polyvinylidene fluoride membrane for enhanced wetting resistance. <i>Applied Surface Science</i> , 2019, 491, 32-42.	3.1	16
463	Effect of pre-oxidation on low pressure membrane (LPM) for water and wastewater treatment: A review. <i>Chemosphere</i> , 2019, 231, 287-300.	4.2	70
464	Novel and rapid activation of polyvinylidene fluoride membranes by UV light. <i>Reactive and Functional Polymers</i> , 2019, 140, 56-61.	2.0	4
465	Traditional Nanostructures and Nanomaterials in Batteries. , 2019, , 313-357.		0
466	Incorporatedâ€‘bFGF polycaprolactone/polyvinylidene fluoride nanocomposite scaffold promotes human induced pluripotent stem cells osteogenic differentiation. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 16750-16759.	1.2	31
467	Self-cleaning Anti-fouling TiO ₂ /Poly(aryl ether sulfone) Composite Ultrafiltration Membranes. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 714-720.	1.3	4
468	Unexpectedly high oil cleanup capacity of electrospun poly (vinylidene fluoride) fiber webs induced by spindle porous bowl like beads. <i>Soft Materials</i> , 2019, 17, 410-417.	0.8	25
469	Enhancement of vapor flux and salt rejection efficiency induced by low cost-high purity MWCNTs in upscaled PVDF and PVDF-HFP hollow fiber modules for membrane distillation. <i>Separation and Purification Technology</i> , 2019, 224, 163-179.	3.9	23
470	Nanostructures and Nanomaterials for Batteries. , 2019, , .		12
472	Development of anion conducting zeolitic imidazolate framework bottle around ship incorporated with ionic liquids. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14481-14492.	3.8	25
473	High performance of PAN/GO-ZnO composite nanofibers for photocatalytic degradation under visible irradiation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 118-124.	1.5	43

#	ARTICLE	IF	CITATIONS
474	A highly porous solvent free PVDF/expanded graphite foam for oil/water separation. Chemical Engineering Journal, 2019, 372, 1174-1182.	6.6	52
475	Rational design of strontium antimony co-doped Li ₇ La ₃ Zr ₂ O ₁₂ electrolyte membrane for solid-state lithium batteries. Journal of Alloys and Compounds, 2019, 794, 347-357.	2.8	42
476	Effect of membrane wetting on the performance of PVDF and PTFE membranes in the concentration of pomegranate juice through osmotic distillation. Journal of Membrane Science, 2019, 584, 66-78.	4.1	56
477	The Application of Halloysite Nanotubes/Fe ₃ O ₄ Composites Nanoparticles in Polyvinylidene Fluoride Membranes for Dye Solution Removal. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1625-1636.	1.9	9
478	Bio-inspired underwater superoleophobic PVDF membranes for highly-efficient simultaneous removal of insoluble emulsified oils and soluble anionic dyes. Chemical Engineering Journal, 2019, 369, 576-587.	6.6	132
479	Cellulosic materials-enhanced sandwich structure-like separator via electrospinning towards safer lithium-ion battery. Carbohydrate Polymers, 2019, 214, 328-336.	5.1	62
480	Polydopamine layered poly (ether imide) ultrafiltration membranes tailored with silver nanoparticles designed for better permeability, selectivity and antifouling. Journal of Industrial and Engineering Chemistry, 2019, 76, 141-149.	2.9	53
481	Preparation and Characterization of a PVDF Membrane Modified by an Ionic Liquid. Australian Journal of Chemistry, 2019, 72, 425.	0.5	5
482	Carbon dioxide plasma treated PVDF electrospun membrane for the removal of crystal violet dyes and iron oxide nanoparticles from water. Nano Structures Nano Objects, 2019, 18, 100268.	1.9	41
483	Optimizing separation performance and interfacial adhesion of PDMS/PVDF composite membranes for butanol recovery from aqueous solution. Journal of Membrane Science, 2019, 579, 210-218.	4.1	38
484	Synthesis of carbon quantum dots to fabricate ultraviolet- ϵ shielding poly(vinylidene fluoride) films. Journal of Applied Polymer Science, 2019, 136, 47555.	1.3	26
485	Synergistic effects of organic and inorganic additives in preparation of composite poly(vinylidene fluoride) membranes for oil/water separation. Journal of Membrane Science, 2019, 581, 362-372.	1.3	13
486	Metallophthalocyanine-enriched Langmuir-Schaefer multilayers of poly(vinylidene fluoride)-based nanocomposites. Journal of Applied Polymer Science, 2019, 136, 47818.	1.3	2
487	Cross-linking of dehydrofluorinated PVDF membranes with thiol modified polyhedral oligomeric silsesquioxane (POSS) and pure water flux analysis. Journal of Membrane Science, 2019, 581, 362-372.	4.1	20
488	Preparation and characterization of acid and solvent resistant polyimide ultrafiltration membrane. Applied Surface Science, 2019, 483, 278-284.	3.1	13
489	Preparation of Polymer Membranes by In Situ Interfacial Polymerization. International Journal of Polymer Science, 2019, 2019, 1-13.	1.2	24
490	Direct electronetting of high-performance membranes based on self-assembled 2D nanoarchitected networks. Nature Communications, 2019, 10, 1458.	5.8	108
491	One-Step Surface Grafting Method for Preparing Zwitterionic Nanofiltration Membrane via In Situ Introduction of Initiator in Interfacial Polymerization. ACS Applied Polymer Materials, 2019, 1, 1022-1033.	2.0	34

#	ARTICLE	IF	CITATIONS
492	Hydrophilic and anti-fouling PVDF blend ultrafiltration membranes using polyacryloylmorpholine-based triblock copolymers as amphiphilic modifiers. <i>Reactive and Functional Polymers</i> , 2019, 139, 92-101.	2.0	39
493	Parameter Screening of PVDF/PVP Multi-Channel Capillary Membranes. <i>Polymers</i> , 2019, 11, 463.	2.0	9
494	Water Purification Technologies. , 2019, , 83-120.		19
495	Electrospun coaxial PPEK/PVDF fibrous membranes with thermal shutdown property used for lithium-ion batteries. <i>Materials Letters</i> , 2019, 244, 126-129.	1.3	38
496	Superior fouling resistant PVDF membrane with enhanced filtration performance fabricated by combined blending and the self-polymerization approach of dopamine. <i>Journal of Water Process Engineering</i> , 2019, 28, 293-299.	2.6	33
497	Preparation of solvent resistant supports through formation of a semi-interpenetrating polysulfone/polyacrylate network using UV cross-linking " Part 1: Selection of optimal UV curing conditions. <i>Reactive and Functional Polymers</i> , 2019, 136, 189-197.	2.0	5
498	Electron beam irradiation of polyvinylidene fluoride/polyvinylpyrrolidone ultrafiltration membrane in presence of zwitterions molecules evaluation of filtration performances. <i>Radiation Physics and Chemistry</i> , 2019, 159, 101-110.	1.4	5
499	In vitro osteogenic differentiation potential of the human induced pluripotent stem cells augments when grown on Graphene oxide-modified nanofibers. <i>Gene</i> , 2019, 696, 72-79.	1.0	36
500	Fabrication of hydrophilic and antibacterial poly(vinylidene fluoride) based separation membranes by a novel strategy combining radiation grafting of poly(acrylic acid) (PAA) and electroless nickel plating. <i>Journal of Colloid and Interface Science</i> , 2019, 543, 64-75.	5.0	45
501	Exploiting Fluoropolymers Immiscibility to Tune Surface Properties and Mass Transfer in Blend Membranes for Membrane Contactor Applications. <i>ACS Applied Polymer Materials</i> , 2019, 1, 326-334.	2.0	16
502	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. <i>Journal of Plastic Film and Sheeting</i> , 2019, 35, 260-280.	1.3	4
503	Surface wettability modification of poly(vinylidene fluoride) and copolymer films and membranes by plasma treatment. <i>Polymer</i> , 2019, 169, 138-147.	1.8	51
504	A review of nanoparticle-enhanced membrane distillation membranes: membrane synthesis and applications in water treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2757-2771.	1.6	104
505	Preparation of PEGylated poly(vinylidene fluoride) porous membranes with improved antifouling property. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 014002.	0.9	1
506	Microporous PVDF ionic membranes for actuator applications prepared with imidazole-based poly(ionic) liquid as a pore forming material. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 683, 012060.	0.3	4
508	Reliability of Protective Coatings for Flexible Piezoelectric Transducers in Aqueous Environments. <i>Micromachines</i> , 2019, 10, 739.	1.4	25
509	Electrospun Cu-Deposited Flexible Fibers as an Efficient Oxygen Evolution Reaction Electrocatalyst. <i>ChemPhysChem</i> , 2019, 20, 2899-2899.	1.0	2
510	Characterization and Application of PVDF and Its Copolymer Films Prepared by Spin-Coating and Langmuir-Blodgett Method. <i>Polymers</i> , 2019, 11, 2033.	2.0	96

#	ARTICLE	IF	CITATIONS
511	Endowing piezoelectric and anti-fouling properties by directly poling β -phase PVDF membranes with green diluents. <i>AIP Advances</i> , 2019, 9, .	0.6	11
512	Real-Time Evaluation of the Mechanical Performance and Residual Life of a Notching Mold using Embedded PVDF Sensors and SVM Criteria. <i>Sensors</i> , 2019, 19, 5123.	2.1	2
513	Separation of Palladium(II) and Rhodium(III) Using a Polymer Inclusion Membrane Containing a Phosphonium-Based Ionic Liquid Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22334-22342.	1.8	31
514	A Stable Anti-Fouling Coating on PVDF Membrane Constructed of Polyphenol Tannic Acid, Polyethyleneimine and Metal Ion. <i>Polymers</i> , 2019, 11, 1975.	2.0	21
515	23 fractional factorial design for polymer based thin film composite (TFC) membrane synthesis for CO ₂ /CH ₄ separation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 702, 012049.	0.3	1
516	Superoleophobic micro-nanostructure surface formation of PVDF membranes by tannin and a condensed silane coupling agent. <i>RSC Advances</i> , 2019, 9, 32021-32026.	1.7	12
517	Effects of protein properties on ultrafiltration membrane fouling performance in water treatment. <i>Journal of Environmental Sciences</i> , 2019, 77, 273-281.	3.2	43
518	Hydrophilic modification of polyvinylidene fluoride membrane by blending amphiphilic copolymer via thermally induced phase separation. <i>Polymers for Advanced Technologies</i> , 2019, 30, 110-119.	1.6	27
519	Recent Progresses of Ultrafiltration (UF) Membranes and Processes in Water Treatment. , 2019, , 85-110.		13
520	Preparation of antibacterial polyvinylidene fluoride (PVDF) ultrafiltration membranes with direct addition of <i>N</i> -halamine polymers. <i>Separation Science and Technology</i> , 2019, 54, 803-814.	1.3	5
521	Fabrication of PVDF hollow fiber membranes via integrated phase separation for membrane distillation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 487-494.	2.7	38
522	Filler network structure and crystallization behavior of polyvinylidene fluoride/graphene nanoplatelet composites using SEM, DSC, rheological, and in situ measurement approach. <i>Polymer Crystallization</i> , 2019, 2, e10041.	0.5	0
523	Separation mechanisms of binary dye mixtures using a PVDF ultrafiltration membrane: Donnan effect and intermolecular interaction. <i>Journal of Membrane Science</i> , 2019, 575, 38-49.	4.1	109
524	Effect of ethanol in the coagulation bath on the structure and performance of PVDF- ϵ -PEGMA/PVDF membrane. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47380.	1.3	20
525	Improvement in the blood compatibility of polyvinylidene fluoride membranes via in situ cross-linking polymerization. <i>Polymers for Advanced Technologies</i> , 2019, 30, 923-931.	1.6	6
526	Hierarchically Porous Organic Materials Derived From Copolymers: Preparation and Electrochemical Applications. <i>Polymer Reviews</i> , 2019, 59, 149-186.	5.3	8
527	Effect of the corona treatment on the microstructure of PVDF probed by electrochemical impedance spectroscopy. <i>Materials Research Express</i> , 2019, 6, 015044.	0.8	4
528	Electrospinning: A Versatile Fabrication Technique for Nanofibrous Membranes for Use in Desalination. , 2019, , 247-273.		20

#	ARTICLE	IF	CITATIONS
529	The effects of fluorocarbon special surfactant (FS-30) additive on the phase inversion, morphology and separation performance of poly(vinylidene fluoride) (PVDF) membranes. Separation and Purification Technology, 2019, 212, 619-631.	3.9	25
530	Nature-inspired polyphenol chemistry to fabricate halloysite nanotubes decorated PVDF membrane for the removal of wastewater. Separation and Purification Technology, 2019, 212, 326-336.	3.9	44
531	PVDF membranes containing reduced graphene oxide: Effect of degree of reduction on membrane distillation performance. Desalination, 2019, 452, 196-207.	4.0	92
532	Charged PVDF multi-layer filters with enhanced filtration performance for filtering nano-aerosols. Separation and Purification Technology, 2019, 212, 854-876.	3.9	56
533	Crosslinked PVDF membranes for aqueous and extreme pH nanofiltration. Journal of Membrane Science, 2019, 572, 489-495.	4.1	51
534	Synthesis, characterization and filtration performance of the polyvinylidene fluoride membrane modified by poly(methyl ethacrylate-co-2-acrylamido-2-methylpropane sulfonic acid). Water Science and Technology: Water Supply, 2019, 19, 1279-1285.	1.0	1
535	Modification of poly(vinylidene fluoride) membranes with aluminum oxide nanowires and graphene oxide nanosheets for oil/water separation. Journal of Applied Polymer Science, 2019, 136, 47493.	1.3	18
536	Preparation and characterization of a piezoelectric poly(vinylidene fluoride)/nanohydroxyapatite scaffold capable of naproxen delivery. European Polymer Journal, 2019, 112, 442-451.	2.6	16
537	Preparation and characterization of polyvinylidene fluoride/1-butyl-3-methylimidazolium bromide-based ionogel membranes for desalination applications. International Journal of Environmental Science and Technology, 2019, 16, 7081-7092.	1.8	9
538	Graphene and polymer composites for supercapacitor applications. , 2019, , 123-151.		30
539	Tribological behavior of polymer composites containing microcapsules and fibrous fillers: Finite element analysis and experimental verification. Polymer Composites, 2019, 40, 3453-3463.	2.3	5
540	Easily recyclable photocatalyst Bi ₂ WO ₆ /MOF/PVDF composite film for efficient degradation of aqueous refractory organic pollutants under visible-light irradiation. Journal of Materials Science, 2019, 54, 6238-6257.	1.7	37
541	Micro-/Nano-Dual-Scale Porous Composite Membranes for the Separation of Nanopollutants from Water. ACS Applied Nano Materials, 2019, 2, 806-811.	2.4	6
542	Microscale parallel-structured, cross-flow filtration system for evaluation and optimization of the filtration performance of hollow-fiber membranes. Separation and Purification Technology, 2019, 215, 299-307.	3.9	8
543	Preparation and characterization of a novel hydrophilic PVDF/PVA/Al ₂ O ₃ nanocomposite membrane for removal of As(V) from aqueous solutions. Polymer Composites, 2019, 40, 2452-2461.	2.3	23
544	Porous Polymers as Multifunctional Material Platforms toward Task-specific Applications. Advanced Materials, 2019, 31, e1802922.	11.1	315
545	Novel anion exchange membrane for concentration of lithium salt in hybrid capacitive deionization. Desalination, 2019, 452, 279-289.	4.0	30
546	Antifouling poly(vinylidene fluoride) hollow fiber membrane with hydrophilic surfaces by ultrasonic wave-assisted graft polymerization. Polymer Engineering and Science, 2019, 59, E446.	1.5	12

#	ARTICLE	IF	CITATIONS
547	Temperature dependence of flexoelectric coefficient for bulk polymer polyvinylidene fluoride. Journal Physics D: Applied Physics, 2019, 52, 075302.	1.3	9
548	Preparation and performance of the novel PVDF ultrafiltration membranes blending with PVA modified SiO ₂ hydrophilic nanoparticles. Polymer Engineering and Science, 2019, 59, E412.	1.5	17
549	A novel antifouling ultrafiltration membranes prepared from percarboxylic acid functionalized SiO ₂ bound Fe ₃ O ₄ nanoparticle (SCMNP@COOH)/polyethersulfone nanocomposite for BSA separation and dye removal. Journal of Chemical Technology and Biotechnology, 2019, 94, 1341-1353.	1.6	28
550	Blend proton exchange membranes with high performance based on sulfonated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	11
551	Carbon Nanotubes as Plant Growth Regulators. , 2019, , 23-42.		15
552	Water Treatment by Renewable Energy-Driven Membrane Distillation. , 2019, , 179-211.		6
553	Tribological behavior and characterization analysis of modified nano-CeO ₂ filled oily diatomite/PVDF composites. Tribology International, 2019, 130, 299-307.	3.0	18
554	An integrated coagulation-ultrafiltration-nanofiltration process for internal reuse of shale gas flowback and produced water. Separation and Purification Technology, 2019, 211, 310-321.	3.9	98
555	Efficient nano-filler for the phase transformation in polyvinylidene fluoride nanocomposites by using nanoparticles of stannous sulfate. Materials Research Innovations, 2019, 23, 183-190.	1.0	11
556	Mitigation of HA, BSA and oil/water emulsion fouling of PVDF Ultrafiltration Membranes by SiO ₂ -g-PEGMA nanoparticles. Journal of Water Process Engineering, 2019, 30, 100603.	2.6	58
557	Synthetic polymer materials for forward osmosis (FO) membranes and FO applications: a review. Reviews in Chemical Engineering, 2019, 35, 191-209.	2.3	16
558	Preparation, characterization, and mechanical properties of polyacrylonitrile (PAN)/graphene oxide (GO) nanofibers. Mechanics of Advanced Materials and Structures, 2020, 27, 346-351.	1.5	27
559	Graft copolymerization of GMA and EDMA on PVDF to hydrophilic surface modification by electron beam irradiation. Nuclear Engineering and Technology, 2020, 52, 373-380.	1.1	32
560	A polymer inclusion membrane functionalized by di(2-ethylhexyl) phosphinic acid with hierarchically ordered porous structure for Lutetium(III) transport. Journal of Membrane Science, 2020, 593, 117458.	4.1	26
561	Fabrication of hierarchical layer-by-layer membrane as the photocatalytic degradation of foulants and effective mitigation of membrane fouling for wastewater treatment. Science of the Total Environment, 2020, 699, 134398.	3.9	59
562	Preparation and performance of poly(4-vinylpyridine)-b-polysulfone-b-poly(4-vinylpyridine) triblock copolymer/polysulfone blend membrane for separation of palladium (II) from electroplating wastewaters. Journal of Hazardous Materials, 2020, 384, 121277.	6.5	32
563	Constructing zwitterionic polymer brush layer to enhance gravity-driven membrane performance by governing biofilm formation. Water Research, 2020, 168, 115181.	5.3	43
564	Fabrication of a new emulsion polyvinyl chloride (EPVC) nanocomposite ultrafiltration membrane modified by para-hydroxybenzoate alumoxane (PHBA) additive to improve permeability and antifouling performance. Chemical Engineering Research and Design, 2020, 153, 8-20.	2.7	33

#	ARTICLE	IF	CITATIONS
565	A review on nanofibers membrane with amino-based ionic liquid for heavy metal removal. <i>Journal of Molecular Liquids</i> , 2020, 297, 111793.	2.3	99
566	Surface hydrophilic modification of PVDF membranes based on tannin and zwitterionic substance towards effective oil-in-water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 234, 116015.	3.9	85
567	Elastic flexibility of ferroelectric supramolecular co-crystals. <i>Soft Materials</i> , 2020, 18, 31-37.	0.8	2
568	Electrospun PI@GO separators for Li-ion batteries: a possible solution for high-temperature operation. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 109-117.	1.1	8
569	High-performance nanofiltration membrane for dyes removal: Blending Fe ₃ O ₄ -HNTs nanocomposites into poly(vinylidene fluoride) matrix. <i>Journal of Dispersion Science and Technology</i> , 2020, 42, 93-102.	1.3	10
570	A facile and environmental-friendly strategy for preparation of poly (tetrafluoroethylene-co-hexafluoropropylene) hollow fiber membrane and its membrane emulsification performance. <i>Chemical Engineering Journal</i> , 2020, 384, 123345.	6.6	27
571	Core-shell fibrous membranes of PVDF/Ba _{0.9} Ca _{0.1} TiO ₃ /PVA with osteogenic and piezoelectric properties for bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 015007.	1.7	20
572	Stable, regenerable and 3D macroporous Pd (II)-imprinted membranes for efficient treatment of electroplating wastewater. <i>Separation and Purification Technology</i> , 2020, 235, 116220.	3.9	21
573	Investigating the potential of membranes formed by the vapor induced phase separation process. <i>Journal of Membrane Science</i> , 2020, 597, 117601.	4.1	110
574	Electrical and thermal conductivity of polyvinylidene fluoride (PVDF) / Conducting Carbon Black (CCB) composites: Validation of various theoretical models. <i>Composites Part B: Engineering</i> , 2020, 185, 107748.	5.9	65
575	Nanodiamond in composite: Biomedical application. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 906-922.	2.1	36
576	Improved antifouling and self-cleaning ability of PVDF ultrafiltration membrane grafted with polymer brushes for oily water treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 401-408.	2.9	33
577	In vivo degradation study of polyvinylidene fluoride/polybutylene succinate/modified organic montmorillonite nanocomposite films implanted in the gastrointestinal tract. <i>Polymer Degradation and Stability</i> , 2020, 172, 109058.	2.7	3
578	Fabrication of antifouling membranes by blending poly(vinylidene fluoride) with cationic polyionic liquid. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48878.	1.3	12
579	Improvement in performance of PVDF ultrafiltration membranes by co-incorporation of dopamine and halloysite nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124142.	2.3	39
580	Unlocking the Poly(vinylidene fluoride-co-hexafluoropropylene)/Li ₁₀ GeP ₂ S ₁₂ composite solid-state Electrolytes for Dendrite-Free Li metal batteries assisting with perfluoropolyethers as bifunctional adjuvant. <i>Journal of Power Sources</i> , 2020, 446, 227365.	4.0	74
581	Biomass rhamnolipid modified poly(vinylidene fluoride) membrane with significantly improved surface hydrophilicity and enhanced antifouling performance. <i>Chemical Engineering Science</i> , 2020, 212, 115330.	1.9	11
582	Maneuvering the secondary surface morphology of electrospun poly (vinylidene fluoride) nanofibers by controlling the processing parameters. <i>Materials Research Express</i> , 2020, 7, 015008.	0.8	19

#	ARTICLE	IF	CITATIONS
583	Modification of ultrafiltration membrane by thermo-responsive Bentonite-poly(N-isopropylacrylamide) nanocomposite to improve its antifouling properties. <i>Journal of Water Process Engineering</i> , 2020, 34, 101067.	2.6	15
584	Application of β -Cyclodextrin-Modified/PVDF Blend Magnetic Membranes for Direct Metal Ions Removal from Wastewater. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2692-2707.	1.9	7
585	Application of PVDF-[BMIM][PF6] blends as the active material in screen-printed interdigital capacitors for temperature sensing. <i>Smart Materials and Structures</i> , 2020, 29, 025008.	1.8	2
586	Efficient Harvesting of Microalgal biomass and Direct Conversion of Microalgal Lipids into Biodiesel. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48775.		6
587	PVDF/TiO ₂ /graphene oxide composite nanofiber membranes serving as separators in lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48775.	1.3	13
588	Magnetic field assisted preparation of PES-Ni@MWCNTs membrane with enhanced permeability and antifouling performance. <i>Chemosphere</i> , 2020, 243, 125446.	4.2	53
589	Functional PVDF/rGO/TiO ₂ nanofiber webs for the removal of oil from water. <i>Polymer</i> , 2020, 186, 122028.	1.8	35
590	Preparation of solvent resistant supports through formation of a semi-interpenetrating polysulfone/polyacrylate network using UV cross-linking - Part 2: Optimization of synthesis parameters for UV-LED curing. <i>Reactive and Functional Polymers</i> , 2020, 146, 104403.	2.0	3
591	Enhanced physical, mechanical and protein adsorption properties of PVDF composite films prepared via thermally-induced phase separation (TIPS): Effect of SiO ₂ @PDA nanoparticles. <i>European Polymer Journal</i> , 2020, 140, 110039.	2.6	13
592	A comprehensive computational study and simulation of innovative zwitterionic materials for enhanced poly(vinylidene fluoride) membrane hydrophilicity. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 100, 107656.	1.3	16
593	Alternative heating techniques in membrane distillation: A review. <i>Desalination</i> , 2020, 496, 114713.	4.0	108
594	Recent development and challenges in extraction of phytonutrients from palm oil. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020, 19, 4031-4061.	5.9	20
595	Synthesis and Characterization of Copolymer Poly(vinylidene fluoride)/Graphene Nanofiber. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 833, 012079.	0.3	1
596	A CO ₂ -gated anodic aluminum oxide based nanocomposite membrane for de-emulsification. <i>Nanoscale</i> , 2020, 12, 21316-21324.	2.8	12
597	The effect of different binders on the comprehensive performance of solid phase microextraction fiber. <i>Analytica Chimica Acta</i> , 2020, 1140, 50-59.	2.6	16
598	Simple preparation of self-poled PVDF/nanoceria nanocomposite through one-step formation approach. <i>Polymer Bulletin</i> , 2021, 78, 5547-5566.	1.7	7
599	Preparation of PVDF/CdS/Bi ₂ WO ₆ /ZnO hybrid membrane with enhanced visible-light photocatalytic activity for degrading nitrite in water. <i>Environmental Research</i> , 2020, 191, 110036.	3.7	39
600	New Antifouling and Antibacterial Membrane Material for Highly Selective Removal of Nitrate and Phosphate. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12114-12122.	1.8	7

#	ARTICLE	IF	CITATIONS
601	Nanoparticles filled PVA/PVDF hollow fiber membrane towards enhanced performance for air dehumidification. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012096.	0.2	4
602	Polyvinylidene fluoride (PVDF) as a feedstock for material extrusion additive manufacturing. Rapid Prototyping Journal, 2020, 26, 156-163.	1.6	18
603	Selective Separation of Platinum Group Metals via Sequential Transport through Polymer Inclusion Membranes Containing an Ionic Liquid Carrier. ACS Sustainable Chemistry and Engineering, 2020, 8, 11283-11291.	3.2	27
604	Exploring the bifunctional properties of paper-like carbyne-enriched carbon for maintenance-free self-powered systems. Materials Advances, 2020, 1, 1644-1652.	2.6	9
605	Structure control of hydrophilized PVDF hollow-fiber membranes using amphiphilic copolymers: PMMA-co-P (HEMA-co-MEA). Journal of Membrane Science, 2020, 612, 118421.	4.1	9
606	Direct generation of electrospun branched nanofibers for energy harvesting. Polymers for Advanced Technologies, 2020, 31, 2659-2666.	1.6	18
607	Impact Tensile Behaviors of PVDF Building Coated Fabrics. Advances in Civil Engineering, 2020, 2020, 1-10.	0.4	1
608	Effect of the Zwitterion, p(MAO-DMPA), on the Internal Structure, Fouling Characteristics, and Dye Rejection Mechanism of PVDF Membranes. Membranes, 2020, 10, 323.	1.4	4
609	Energy storage of supercapacitor electrodes on carbon cloth enhanced by graphene oxide aerogel reducing conditions. Journal of Energy Storage, 2020, 32, 101839.	3.9	23
610	Superwetable PVDF/PVDF- <i>g</i> -PEGMA Ultrafiltration Membranes. ACS Omega, 2020, 5, 23450-23459.	1.6	25
611	Development and physico-chemical characterization of Polyvinylidene fluoride (PVDF) flat sheet membranes with antibacterial properties against E. coli and S. aureus. Journal of Physics: Conference Series, 2020, 1593, 012042.	0.3	3
612	Sulfonated Poly(ether sulfone)-Coated and -Blended Nafion Membranes with Enhanced Conductivity and Reduced Hydrogen Permeability. ACS Applied Energy Materials, 2020, 3, 11418-11433.	2.5	19
613	Fabrication of a PVDF membrane with tailored morphology and properties <i>via</i> exploring and computing its ternary phase diagram for wastewater treatment and gas separation applications. RSC Advances, 2020, 10, 40373-40383.	1.7	24
614	Impregnation of polyethylene membranes with 1-butyl-3-methylimidazolium dicyanamide ionic liquid for enhanced removal of Cd ²⁺ , Ni ²⁺ , and Zn ²⁺ from aqueous solutions. Journal of Molecular Liquids, 2020, 318, 113981.	2.3	7
615	Rapid deposition on polydopamine coated PVDF membranes with enhanced anti-protein and antibacterial performance for wastewater treatment. , 2020, , .		0
616	Nanocomposites of polyvinylidene fluoride copolymer-functionalized carbon nanotubes prepared by electrospinning method. IOP Conference Series: Earth and Environmental Science, 2020, 483, 012045.	0.2	1
617	Direct fabrication of electrospun branched nanofibers with tiny diameters for oil absorption. Journal of Dispersion Science and Technology, 2021, 42, 2085-2091.	1.3	13
618	Influence of particle type and concentration on the ultrafiltration behavior of nanoparticle stabilized Pickering emulsions and suspensions. Separation and Purification Technology, 2020, 252, 117457.	3.9	12

#	ARTICLE	IF	CITATIONS
619	Fast ion conductor modified double-polymer (PVDF and PEO) matrix electrolyte for solid lithium-ion batteries. <i>Solid State Ionics</i> , 2020, 355, 115419.	1.3	31
620	Fabrication of nanofiber filters for electret air conditioning filter via a multi-needle electrospinning. <i>AIP Advances</i> , 2020, 10, 105217.	0.6	7
621	Enhanced energy storage efficiency in PVDF based composite films using MnO ₂ nano-fillers. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18336-18343.	1.1	18
622	Fabrication of superhydrophobic polyethersulfone-ZnO rods composite membrane. <i>Materials Letters</i> , 2020, 281, 128663.	1.3	13
623	Bio-inspired antifouling Cellulose nanofiber multifunctional filtration membrane for highly efficient emulsion separation and application in water purification. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1751-1760.	1.2	8
624	Polymer Nanocomposite Ultrafiltration Membranes: The Influence of Polymeric Additive, Dispersion Quality and Particle Modification on the Integration of Zinc Oxide Nanoparticles into Polyvinylidene Difluoride Membranes. <i>Membranes</i> , 2020, 10, 197.	1.4	18
625	Optimization of processing condition for dome-shaped PVDF piezoelectric device for large area tactile sensors. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 704, 125-135.	0.4	2
626	Graphene-PSS/DOPA nanocomposite cation exchange membranes for electro dialysis desalination. <i>Environmental Science: Nano</i> , 2020, 7, 3108-3123.	2.2	8
627	Rapid Surface Modification of Ultrafiltration Membranes for Enhanced Antifouling Properties. <i>Membranes</i> , 2020, 10, 401.	1.4	16
628	Impacts of Sulfuric Acid on the Stability and Separation Performance of Polymeric PVDF-Based Membranes at Mild and High Concentrations: An Experimental Study. <i>Membranes</i> , 2020, 10, 375.	1.4	9
629	Analysis of Research Status of Modified PVDF Ultrafiltration Membrane. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 585, 012190.	0.2	3
630	Fabrication Membrane of Titanium dioxide (TiO ₂) Blended Polyethersulfone (PES) and Polyvinylidene fluoride (PVDF): Characterization, Mechanical Properties and Water Treatment. <i>Key Engineering Materials</i> , 0, 867, 159-165.	0.4	2
631	Self-Suspended Photothermal Microreactor for Water Desalination and Integrated Volatile Organic Compound Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51537-51545.	4.0	47
632	Non-Isothermal Crystallization Behavior of Poly(vinylidene fluoride) in Dialkyl Phthalate Diluents during Thermally Induced Phase Separation Process. <i>Crystals</i> , 2020, 10, 782.	1.0	6
633	Synergistic Effect Based on Enhanced Local Shear Forces in PVDF/TiO ₂ /CNT Ternary Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18887-18897.	1.8	16
634	Engineered Zero-Dimensional Fullerene/Carbon Dots-Polymer Based Nanocomposite Membranes for Wastewater Treatment. <i>Molecules</i> , 2020, 25, 4934.	1.7	32
635	A Family of Water-immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. <i>ChemSusChem</i> , 2020, 13, 3212-3221.	3.6	6
636	Preparation of polyvinylidene fluoride/modified attapulgite composite ultrafiltration membrane. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2051-2057.	1.6	3

#	ARTICLE	IF	CITATIONS
637	Towards permanent hydrophilic PVDF membranes. Amphiphilic PVDF-b-PEG-b-PVDF triblock copolymer as membrane additive. <i>European Polymer Journal</i> , 2020, 131, 109708.	2.6	32
638	Fe ₃ O ₄ /PVDF catalytic membrane treatment organic wastewater with simultaneously improved permeability, catalytic property and anti-fouling. <i>Environmental Research</i> , 2020, 187, 109617.	3.7	34
639	Numerical analysis of piezoelectric and mechanical response of buckled poly(vinylidene fluoride) nanofibers for the design of highly stretchable electronics. <i>Journal of Materials Science</i> , 2020, 55, 10668-10677.	1.7	6
640	Deposition of a Chitosan Coating on Celgard Porous Matrices in the Presence of Carbon Dioxide under Pressure. <i>Polymer Science - Series A</i> , 2020, 62, 123-131.	0.4	4
641	Branched nanofibers with tiny diameters for air filtration via one-step electrospinning. <i>Journal of Industrial Textiles</i> , 2022, 51, 1105S-1117S.	1.1	26
642	Selective oxidation of benzene to phenol using functionalized membrane via Fenton-like process. <i>Journal of Membrane Science</i> , 2020, 611, 118230.	4.1	4
643	Fouling behavior of poly(vinylidene fluoride) (PVDF) ultrafiltration membrane by polyvinyl alcohol (PVA) and chemical cleaning method. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 3018-3026.	1.7	16
644	Styrene-acrylonitrile (SAN) nanofibrous membranes with unique properties for desalination by direct contact membrane distillation (DCMD) process. <i>Desalination</i> , 2020, 488, 114502.	4.0	34
645	Completely green and sustainable preparation of PVDF hollow fiber membranes via melt-spinning and stretching method. <i>Journal of Hazardous Materials</i> , 2020, 398, 122823.	6.5	39
646	Permanent Antimicrobial Poly(vinylidene fluoride) Prepared by Chemical Bonding with Poly(hexamethylene guanidine). <i>ACS Omega</i> , 2020, 5, 10481-10488.	1.6	15
647	Biomimetic hybrid membranes with covalently anchored chitosan “ Material design, transport and separation. <i>Desalination</i> , 2020, 491, 114550.	4.0	22
648	A novel ternary Pd-GO/N-doped TiO ₂ hierarchical visible-light sensitive photocatalyst for nanocomposite membrane. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 946-954.	1.2	4
649	Enhancement of Industrial Effluents Quality by Using Nanocomposite Mg/Al LDH Ultrafiltration Membranes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 5244-5260.	1.9	25
650	Hydroxyl radical intensified Cu ₂ O NPs/H ₂ O ₂ process in ceramic membrane reactor for degradation on DMAc wastewater from polymeric membrane manufacturer. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	18
651	Preparation and characterization of loose antifouling nanofiltration membrane using branched aniline oligomers grafted onto polyether sulfone and application for real algal dye removal. <i>Chemical Engineering Journal</i> , 2020, 401, 125861.	6.6	25
652	Energy harvesting from a thin polymeric film based on PVDF-HFP and PMMA blend. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	33
653	Nanoconfinement-Mediated Water Treatment: From Fundamental to Application. <i>Environmental Science & Technology</i> , 2020, 54, 8509-8526.	4.6	209
654	Synthetic polymer-based membranes for lithium-ion batteries. , 2020, , 383-415.		1

#	ARTICLE	IF	CITATIONS
655	Low Temperature Adhesive Bonding-Based Fabrication of an Air-Borne Flexible Piezoelectric Micromachined Ultrasonic Transducer. <i>Sensors</i> , 2020, 20, 3333.	2.1	16
656	Wettability of a Poly(vinylidene fluoride) Surface by a Pure Good Solvent and a Good Solvent/Nonsolvent Mixture: All-Atom Molecular Dynamics Study. <i>Langmuir</i> , 2020, 36, 3633-3644.	1.6	2
657	Pre-thermal treatment in binary solvent systems promoting β^2 crystalline phase of electrospun poly(vinylidene fluoride) nanofibers. <i>Polymer International</i> , 2020, 69, 719-727.	1.6	3
658	Preparation and antifouling performance of PVDF-DCOIT composite hollow fiber membranes. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 497-504.	1.2	1
659	Fabrication and Optical Modeling of Micro-Porous Membranes Indexed-Matched with Water for On-Line Sensing Applications. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900701.	1.7	3
660	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1803-1915.	3.2	117
661	Synergistic effects of stretching/polarization temperature and electric field on phase transformation and piezoelectric properties of polyvinylidene fluoride nanofilms. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
662	Polymeric Membranes Incorporated With ZnO Nanoparticles for Membrane Fouling Mitigation: A Brief Review. <i>Frontiers in Chemistry</i> , 2020, 8, 224.	1.8	74
663	The Effect of Crystalline Microstructure of PVDF Binder on Mechanical and Electrochemical Performance of Lithium-Ion Batteries Cathode. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 381-397.	1.4	11
664	A novel strategy based on magnetic field assisted preparation of magnetic and photocatalytic membranes with improved performance. <i>Journal of Membrane Science</i> , 2020, 612, 118378.	4.1	90
665	Adsorption removal of tetracycline from water using poly(vinylidene fluoride)/polyaniline-Chemical Engineers, 2020, 112, 259-270.	2.7	32
666	Application of PVDF/HDTMA-modified clinoptilolite nanocomposite membranes in removal of reactive dye from aqueous solution. <i>Separation and Purification Technology</i> , 2020, 251, 117294.	3.9	33
667	Recent Developments in Nanomaterials-Modified Membranes for Improved Membrane Distillation Performance. <i>Membranes</i> , 2020, 10, 140.	1.4	55
668	Superhydrophilic polyvinylidene fluoride membrane with hierarchical surface structures fabricated via nanoimprint and nanoparticle grafting. <i>Journal of Membrane Science</i> , 2020, 612, 118332.	4.1	16
669	Improved permeability and biofouling resistance of microfiltration membranes via quaternary ammonium and zwitterion dual-functionalized diblock copolymers. <i>European Polymer Journal</i> , 2020, 135, 109883.	2.6	10
670	PVDF mixed matrix ultrafiltration membrane incorporated with deformed rebar-like Fe ₃ O ₄ -palygorskite nanocomposites to enhance strength and antifouling properties. <i>Journal of Membrane Science</i> , 2020, 612, 118467.	4.1	60
671	Preparation of polyamide-PVDF composite hollow fiber membranes with well-developed interconnected bicontinuous structure using high-temperature rapid NIPS for forward osmosis. <i>Journal of Membrane Science</i> , 2020, 612, 118468.	4.1	22
672	Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities. , 2020, , 1-43.		7

#	ARTICLE	IF	CITATIONS
673	Waterproof lithium metal anode enabled by cross-linking encapsulation. <i>Science Bulletin</i> , 2020, 65, 909-916.	4.3	60
674	Innovative Poly (Vinylidene Fluoride) (PVDF) Electrospun Nanofiber Membrane Preparation Using DMSO as a Low Toxicity Solvent. <i>Membranes</i> , 2020, 10, 36.	1.4	44
675	Inkjet printing assisted fabrication of polyphenol-based coating membranes for oil/water separation. <i>Chemosphere</i> , 2020, 250, 126236.	4.2	71
676	Effect of different PVDF and additives on the properties of hollow fiber membranes contactors for CO ₂ separation. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49013.	1.3	3
677	Conversion of textile effluent wastewater into fertilizer using marine cyanobacteria along with different agricultural waste. , 2020, , 87-111.		5
678	Magnetron plasma modification by sputtering copper target of electrospun fluoropolymer material to possess bacteriostatic properties. <i>Materials Today: Proceedings</i> , 2020, 22, 219-227.	0.9	4
679	Surface-modified PVA/PVDF hollow fiber composite membrane for air dehumidification. <i>Journal of Materials Science</i> , 2020, 55, 5415-5430.	1.7	33
680	Glowing kaolinite intercalated with N-Methyl imidazole and Eu ³⁺ /Tb ³⁺ salts and potential application in UV-to-red light conversion. <i>Applied Clay Science</i> , 2020, 186, 105473.	2.6	5
681	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	4.0	177
682	Research on Forward Osmosis Membrane Technology Still Needs Improvement in Water Recovery and Wastewater Treatment. <i>Water (Switzerland)</i> , 2020, 12, 107.	1.2	35
683	Using Annealing Treatment on Fabrication Ionic Liquid-Based PVDF Films. <i>Coatings</i> , 2020, 10, 44.	1.2	18
684	Review of Chitosan-Based Polymers as Proton Exchange Membranes and Roles of Chitosan-Supported Ionic Liquids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 632.	1.8	81
685	Design and Construction of Ag@MOFs Immobilized PVDF Ultrafiltration Membranes with Anti-bacterial and Antifouling Properties. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-11.	0.8	14
686	Ultrasonication favors TiO ₂ nano-particles dispersion in PVDF ultrafiltration membrane to effectively enhance membrane hydrophilicity and anti-fouling capability. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9503-9519.	2.7	8
687	Comb-shaped amphiphilic triblock copolymers blend PVDF membranes overcome the permeability-selectivity trade-off for protein separation. <i>Separation and Purification Technology</i> , 2020, 239, 116596.	3.9	38
688	Fouling resistance of 3-[[3-(trimethoxysilane)-propyl] amino] propane-1-sulfonic acid zwitterion modified poly (vinylidene fluoride) membranes. <i>Separation and Purification Technology</i> , 2020, 239, 116589.	3.9	20
689	Carboxylated Nanodiamond-Enhanced Photocatalytic Membranes with Improved Antifouling and Self-Cleaning Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3538-3549.	1.8	34
690	Antifouling behaviour of a photocatalytic modified membrane in a moving bed bioreactor for wastewater treatment. <i>Journal of Cleaner Production</i> , 2020, 256, 120381.	4.6	12

#	ARTICLE	IF	CITATIONS
691	Preparation of antibiofouling nanocomposite PVDF/Ag-SiO ₂ membrane and long-term performance evaluation in the MBR system fed by real pharmaceutical wastewater. Separation and Purification Technology, 2020, 249, 116938.	3.9	69
692	Hydrothermal carbon nanospheres assisted-fabrication of PVDF ultrafiltration membranes with improved hydrophilicity and antifouling performance. Separation and Purification Technology, 2020, 247, 116889.	3.9	35
693	Revealing the Dissolution Mechanism of Polyvinylidene Fluoride of Spent Lithium-Ion Batteries in Waste Oil-Based Methyl Ester Solvent. ACS Sustainable Chemistry and Engineering, 2020, 8, 7489-7496.	3.2	40
694	Indoor Test System for Liquid CO ₂ Phase Change Shock Wave Pressure with PVDF Sensors. Sensors, 2020, 20, 2395.	2.1	11
695	Air and Water Vapor Permeable UHMWPE Composite Membranes for X-Ray Shielding. Industrial & Engineering Chemistry Research, 2020, 59, 9136-9142.	1.8	9
696	A systematic study on the uptake of ⁵⁷ Co ions on amidoxime functionalized PAN-PVDF beads: preliminary studies towards fabrication of ⁵⁷ Co point sources. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 879-885.	0.7	1
697	Fabrication and structural characterization of poly(vinylidene fluoride)/polyacrylate composite waterborne coatings with excellent weather resistance and room-temperature curing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 598, 124851.	2.3	5
698	Preparation of Fe ₃ O ₄ @TiO ₂ blended PVDF membrane by magnetic coagulation bath and its permeability and pollution resistance. Journal of Materials Research and Technology, 2020, 9, 4951-4967.	2.6	21
699	Breakthrough the upperbond of permeability vs. tensile strength of TIPS-prepared PVDF membranes. Journal of Membrane Science, 2020, 604, 118089.	4.1	23
700	Self-cleaning, antimicrobial, and antifouling membrane via integrating mesoporous graphitic carbon nitride into polyvinylidene fluoride. Journal of Membrane Science, 2020, 606, 118146.	4.1	44
701	Role of moderately hydrophobic chitosan flocculants in the removal of trace antibiotics from water and membrane fouling control. Water Research, 2020, 177, 115775.	5.3	65
702	Atomic layer deposition and electrospinning as membrane surface engineering methods for water treatment: a short review. Environmental Science: Water Research and Technology, 2020, 6, 1765-1785.	1.2	12
703	Understanding the Role of Solvents on the Morphological Structure and Li-Ion Conductivity of Poly(vinylidene fluoride)-Based Polymer Electrolytes. Journal of the Electrochemical Society, 2020, 167, 070552.	1.3	39
704	Comparative Study on the Effects of Three Membrane Modification Methods on the Performance of Microbial Fuel Cell. Energies, 2020, 13, 1383.	1.6	10
705	Beneficial CNT Intermediate Layer for Membrane Fluorination toward Robust Superhydrophobicity and Wetting Resistance in Membrane Distillation. ACS Applied Materials & Interfaces, 2020, 12, 20942-20954.	4.0	44
706	Purification of emulsified oil by Bentonite loaded polyvinylidene fluoride/polyvinylpyrrolidone membrane. Water Practice and Technology, 2020, 15, 394-403.	1.0	1
707	A Review on Current Development of Membranes for Oil Removal from Wastewaters. Membranes, 2020, 10, 65.	1.4	50
708	Sulfonated poly($\hat{1}$, $\hat{1}$, $\hat{2}$ -trifluorostyrene)-doped PVDF ultrafiltration membrane with enhanced hydrophilicity and antifouling property. Journal of Membrane Science, 2020, 603, 118046.	4.1	14

#	ARTICLE	IF	CITATIONS
709	Copper-cobalt-nickel oxide nanowire arrays on copper foams as self-standing anode materials for lithium ion batteries. <i>Chinese Chemical Letters</i> , 2021, 32, 938-942.	4.8	17
710	Characterization and application of Ca ²⁺ -TiO ₂ doped cellulose acetate nanocomposite film for removal of Reactive Red-195. <i>Chemical Engineering Communications</i> , 2021, 208, 304-317.	1.5	14
711	Poly(vinylidene fluoride) with zinc oxide and carbon nanotubes applied to pressure sheath layers in oil and gas pipelines. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50157.	1.3	11
712	Tailoring the morphology of polyethersulfone/sulfonated polysulfone ultrafiltration membranes for highly efficient separation of oil-in-water emulsions using TiO ₂ nanoparticles. <i>Journal of Membrane Science</i> , 2021, 620, 118868.	4.1	48
713	Construction of Fe ₃ O ₄ @MXene composite nanofiltration membrane for heavy metal ions removal from wastewater. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1000-1010.	1.6	58
714	Aquatic environment remediation by atomic layer deposition-based multi-functional materials: A review. <i>Journal of Hazardous Materials</i> , 2021, 402, 123513.	6.5	15
715	Antifouling and antibacterial behavior of membranes containing quaternary ammonium and zwitterionic polymers. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 225-235.	5.0	95
716	Uncovering the effects of PEG porogen molecular weight and concentration on ultrafiltration membrane properties and protein purification performance. <i>Journal of Membrane Science</i> , 2021, 618, 118729.	4.1	38
717	Highly crystalline ionic covalent organic framework membrane for nanofiltration and charge-controlled organic pollutants removal. <i>Separation and Purification Technology</i> , 2021, 256, 117787.	3.9	38
718	Photocatalytic-membrane technology: a critical review for membrane fouling mitigation. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 101-116.	2.9	106
719	High-permeability graphene oxide and poly(vinyl pyrrolidone) blended poly(vinylidene fluoride) membranes: Roles of additives and their cumulative effects. <i>Journal of Membrane Science</i> , 2021, 619, 118773.	4.1	24
720	One-step modification of PVDF membrane with tannin-inspired highly hydrophilic and underwater superoleophobic coating for effective oil-in-water emulsion separation. <i>Separation and Purification Technology</i> , 2021, 255, 117724.	3.9	53
721	Novel superhydrophilic antifouling PVDF-BiOCl nanocomposite membranes fabricated via a modified blending-phase inversion method. <i>Separation and Purification Technology</i> , 2021, 254, 117656.	3.9	40
722	Coaxially electrospun PAN/HCNFs@PVDF/UiO-66 composite separator with high strength and thermal stability for lithium-ion battery. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110724.	2.2	29
723	Phenolphthalein polyethersulfone bearing carboxyl groups: Synthesis and its separation-membrane applications. <i>High Performance Polymers</i> , 2021, 33, 245-254.	0.8	5
724	Porous evaporators with special wettability for low-grade heat-driven water desalination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 702-726.	5.2	60
725	In situ assembly of PB/SiO ₂ composite PVDF membrane for selective removal of trace radiocesium from aqueous environment. <i>Separation and Purification Technology</i> , 2021, 254, 117557.	3.9	13
726	Improved Desalination Performance of Polyvinylidene Fluoride Hollow Fiber Membranes by the Intermediate Role of Surfactants. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000538.	1.7	4

#	ARTICLE	IF	CITATIONS
727	Optimization, Design and Analysis of a MEMS Microphone with PVDF as a Structural Layer for Cochlear Implant Applications. Lecture Notes in Electrical Engineering, 2021, , 403-415.	0.3	1
728	Modified polyvinylidene fluoride ultrafiltration membrane coated with polydopamine/3-epoxypropoxy propyl triethoxy silane. Polymers for Advanced Technologies, 2021, 32, 1597-1603.	1.6	2
729	PTFE-assisted immobilization of Pluronic F127 in PVDF hollow fiber membranes with enhanced hydrophilicity through nonsolvent-thermally induced phase separation method. Journal of Membrane Science, 2021, 620, 118914.	4.1	18
730	Structural, magnetic and electrical properties of electroactive-superparamagnetic PVDF-Sn _{0.2} Fe _{2.8} O ₄ nanocomposite films. Ceramics International, 2021, 47, 9727-9735.	2.3	7
731	One step surfactant entrapment onto PVDF hollow fiber membrane surface by the TIPS process using a triple-layer orifice spinneret. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125885.	2.3	4
732	Engineering multistructure poly(vinylidene fluoride) membranes modified by polydopamine to achieve superhydrophilicity, excellent permeability, and antifouling properties. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2607.	0.8	3
733	A modified TA-APTES coating: Endowing porous membranes with uniform, durable superhydrophilicity and outstanding anti-crude oil-adhesion property via one-step process. Journal of Membrane Science, 2021, 618, 118703.	4.1	56
734	PVDF fiber membrane with ordered porous structure via 3D printing near field electrospinning. Journal of Membrane Science, 2021, 618, 118709.	4.1	31
735	In-solution structure formation of poly(vinylidene fluoride) building units influencing on the final membrane characteristics. Journal of Applied Polymer Science, 2021, 138, 50133.	1.3	0
736	Antifouling nanocellulose membranes: How subtle adjustment of surface charge lead to self-cleaning property. Journal of Membrane Science, 2021, 618, 118739.	4.1	46
737	Novel microwave-driven synthesis of hydrophilic polyvinylidene fluoride/polyacrylic acid (PVDF/PAA) membranes and decoration with nano zero-valent-iron (nZVI) for water treatment applications. Journal of Membrane Science, 2021, 620, 118817.	4.1	28
738	Effects of spinning conditions on structure and properties of aramid-based hollow fiber blend separation membranes. Journal of Industrial Textiles, 2021, 50, 1281-1313.	1.1	4
739	The Role of Electrospun Nanomaterials in the Future of Energy and Environment. Materials, 2021, 14, 558.	1.3	21
740	Different Bioremediation Techniques for Management of Waste Water. Advances in Environmental Engineering and Green Technologies Book Series, 2021, , 1-18.	0.3	1
741	Effect of Surfactants' Tail Number on the PVDF/GO/TiO ₂ -Based Nanofiltration Membrane for Dye Rejection and Antifouling Performance Improvement. International Journal of Environmental Research, 2021, 15, 149-161.	1.1	9
742	A Piezoelectric Force Sensing and Gesture Monitoring-Based Technique for Acupuncture Quantification. IEEE Sensors Journal, 2021, 21, 26337-26344.	2.4	4
743	A Mini Review on Antiwetting Studies in Membrane Distillation for Textile Wastewater Treatment. Processes, 2021, 9, 243.	1.3	15
744	Preparation and characterization of multifunctional nanofibers containing metal-organic frameworks and Cu ₂ O nanoparticles: particulate matter capture and antibacterial activity. Environmental Science: Nano, 2021, 8, 1226-1235.	2.2	14

#	ARTICLE	IF	CITATIONS
745	Recent Advances in the Rejection of Endocrine-Disrupting Compounds from Water Using Membrane and Membrane Bioreactor Technologies: A Review. <i>Polymers</i> , 2021, 13, 392.	2.0	38
746	High-performance PVDF membranes prepared by the combined crystallisation and diffusion (CCD) method using a dual-casting technique: a breakthrough for water treatment applications. <i>Energy and Environmental Science</i> , 2021, 14, 5491-5500.	15.6	19
747	<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
748	Effect of different concentrations of spraying chitosan solution on structure and properties of PVDF porous membrane. <i>Colloid and Polymer Science</i> , 2021, 299, 797-805.	1.0	4
749	Free-standing intrinsically conducting polymer membranes based on cellulose and poly(vinylidene fluoride) (PVDF). <i>Journal of Membrane Science</i> , 2021, 618, 118-126.	2.6	16
750	Fabrication of <i>in situ</i> polymerized $\text{LiIO}_6/\text{PVDF}$ supramolecular membranes with high antifouling performance. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50519.	1.3	8
751	Surface Modification of Polytetrafluoroethylene Hollow Fiber Membrane for Direct Contact Membrane Distillation through Low-Density Polyethylene Solution Coating. <i>ACS Omega</i> , 2021, 6, 4609-4618.	1.6	13
752	A Review on Glassy and Rubbery Polymeric Membranes for Natural Gas Purification. <i>ChemBioEng Reviews</i> , 2021, 8, 90-109.	2.6	23
753	The Effect of the Oleophobicity Deterioration of a Membrane Surface on Its Rejection Capacity: A Computational Fluid Dynamics Study. <i>Membranes</i> , 2021, 11, 253.	1.4	5
754	Air-gap thermally stimulated discharge currents in PVDF-PMMA double-layered samples. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2957-2968.	2.0	4
755	PVDF based electrospun fibers with various morphologies and their separator applications for secondary batteries. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2433-2443.	1.6	2
756	Preparation of polyvinylidene fluoride modified membrane by tannin and halloysite nanotubes for dyes and antibiotics removal. <i>Journal of Materials Science</i> , 2021, 56, 10218-10230.	1.7	13
757	Piezoelectric Nanogenerator Based on In Situ Growth of Inorganic CsPbBr_3 Perovskite Nanocrystals in PVDF Fibers with Long-Term Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2011073.	7.8	95
758	Membrane Surface Modification by Electrospinning, Coating, and Plasma for Membrane Distillation Applications: A State-of-the-Art Review. <i>Advanced Engineering Materials</i> , 2021, 23, 2001456.	1.6	55
759	Influence of Molecular Weight on the Morphology and Structure of Electrospun Polyvinylidene Fluoride (PVDF). <i>Materials Science Forum</i> , 0, 1025, 293-298.	0.3	0
760	Hydrophobic Polymeric Additives toward a Long-Term Robust Carbonaceous Mudstone Slope. <i>Polymers</i> , 2021, 13, 802.	2.0	3
761	Analytical and experimental study of a clamped-clamped, bistable buckled beam low-frequency PVDF vibration energy harvester. <i>Journal of Sound and Vibration</i> , 2021, 497, 115937.	2.1	27
762	Fabrication of gas-permeable polyvinylidene fluoride (PVDF) hollow-fiber membrane by dry-jet wet spinning and its application in membrane biofilm reactors. <i>Journal of Water Process Engineering</i> , 2021, 40, 101879.	2.6	7

#	ARTICLE	IF	CITATIONS
763	High power density and flexible self-powered piezoelectric nanogenerator based on solution crystallization. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50896.	1.3	2
764	Computer simulation of zwitterionic polymer brush grafted silica nanoparticles to modify polyvinylidene fluoride membrane. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 173-182.	5.0	10
765	Preparation of 3-D porous PVDF/TPU composite foam with superoleophilic/hydrophobicity for the efficient separation of oils and organics from water. <i>Journal of Materials Science</i> , 2021, 56, 12506-12523.	1.7	13
766	Metal-Free Multilayer Hybrid PENG Based on Soft Electrospun-/Sprayed Membranes with Cardanol Additive for Harvesting Energy from Surgical Face Masks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20606-20621.	4.0	44
767	Polymers and Solvents Used in Membrane Fabrication: A Review Focusing on Sustainable Membrane Development. <i>Membranes</i> , 2021, 11, 309.	1.4	92
768	Destruction of Per- and Polyfluoroalkyl Substances (PFAS) via Lacasse Enzymatic Degradation and Electrochemical Advanced Oxidation. , 2021, , .		2
769	Nano-Modification of the Polyvinyl Alcohol/Organic Acid-Modified Polyvinylidene Fluoride Thin-Film Composite Membrane and Its Application in the Nanofiltration Process. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000767.	1.7	5
770	Fluorinated Polymer Membranes as Advanced Substrates for Portable Analytical Systems and Their Proof of Concept for Colorimetric Bioassays. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18065-18076.	4.0	9
771	Effect of crosslinker 3-methacryloxypropylmethyldimethoxysilane on UV-crosslinked PDMS-PTFPMS block copolymer membranes for ethanol pervaporation. <i>Chemical Engineering Research and Design</i> , 2021, 168, 13-24.	2.7	15
772	Functionalizable Epoxy-rich Electrospun Fibres Based on Renewable Terpene for Multi-Purpose Applications. <i>Polymers</i> , 2021, 13, 1804.	2.0	12
773	Surface modified by green synthetic of Cu-MOF-74 to improve the anti-biofouling properties of PVDF membranes. <i>Chemical Engineering Journal</i> , 2021, 411, 128524.	6.6	57
774	Fabrication and characterization of polyethersulfone membranes functionalized with zinc phthalocyanines embedding different substitute groups. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126288.	2.3	12
775	Comparative Assessment of Ionic Liquid-Based Soft Actuators Prepared by Film Casting Versus Direct Ink Writing. <i>Advanced Engineering Materials</i> , 2021, 23, 2100411.	1.6	9
776	Chemical cleaning reagent of sodium hypochlorite eroding polyvinylidene fluoride ultrafiltration membranes: Aging pathway, performance decay and molecular mechanism. <i>Journal of Membrane Science</i> , 2021, 625, 119141.	4.1	17
777	Rapid and robust modification of PVDF ultrafiltration membranes with enhanced permselectivity, antifouling and antibacterial performance. <i>Separation and Purification Technology</i> , 2021, 262, 118316.	3.9	43
778	Recent advances in synthesis and application of polymer nanocomposites for water and wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 296, 126404.	4.6	99
779	Organic vapour permeation in amorphous and semi-crystalline rubbery membranes: Experimental data versus prediction by solubility parameters. <i>Journal of Membrane Science</i> , 2021, 627, 119211.	4.1	9
780	PEDOT surface modified PVDF filtration membrane for conductive membrane preparation and fouling mitigation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105212.	3.3	13

#	ARTICLE	IF	CITATIONS
781	Carbon dot-polymer nanoporous membrane for recyclable sunlight-sterilized facemasks. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 342-348.	5.0	28
782	Cigarette Butt Waste as Material for Phase Inverted Membrane Fabrication Used for Oil/Water Emulsion Separation. <i>Polymers</i> , 2021, 13, 1907.	2.0	15
783	PVDF Composite Membranes with Hydrophobically-Capped CuONPs for Direct-Contact Membrane Distillation. <i>Nanomaterials</i> , 2021, 11, 1497.	1.9	5
784	Radiation-Induced Graft Immobilization (RIGI): Covalent Binding of Non-Vinyl Compounds on Polymer Membranes. <i>Polymers</i> , 2021, 13, 1849.	2.0	10
785	Temperature distribution in polymer film during thermally induced phase separation (TIPS): simulations and experimental observation. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	1
786	Impact of poly(ϵ -caprolactone) on the thermal, dynamic mechanical and crystallization behavior of poly(vinylidene fluoride)/poly(ϵ -caprolactone) blends in the presence of KIT mesoporous particles. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4424-4439.	1.6	11
787	Direct entrapment and statistical optimization of cellulolytic enzymes on PVDF membranes for the hydrolysis of corncob lignocelluloses. <i>Journal of Molecular Liquids</i> , 2022, 346, 117087.	2.3	6
788	Blending poly(2-ethyl-oxazoline) with hydrophobic polymers as a hybrid adhesive with enhanced water-resistant properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51404.	1.3	1
789	Influence of Different Solvents and High-Electric-Field Cycling on Morphology and Ferroelectric Behavior of Poly(Vinylidene Fluoride-Hexafluoropropylene) Films. <i>Materials</i> , 2021, 14, 3884.	1.3	2
790	Investigation of morphology, crystallinity, thermal stability, piezoelectricity and conductivity of PVDF nanocomposites reinforced with epoxy functionalized MWCNTs. <i>Composites Science and Technology</i> , 2021, 211, 108841.	3.8	24
791	Surface Wettability Tuning of Acrylic Resin Photoresist and Its Aging Performance. <i>Sensors</i> , 2021, 21, 4866.	2.1	3
792	Scalable manufacturing of flexible, durable Ti ₃ C ₂ T _x MXene/Polyvinylidene fluoride film for multifunctional electromagnetic interference shielding and electro/photo-thermal conversion applications. <i>Composites Part B: Engineering</i> , 2021, 217, 108902.	5.9	85
793	Study on the modified effect of polyvinylidene fluoride membrane by remote argon plasma. <i>Surface Engineering</i> , 2021, 37, 1110-1119.	1.1	5
794	Simulation on Pore Formation from Polymer Solution at Surface in Contact with Solid Substrate via Thermally Induced Phase Separation. <i>Membranes</i> , 2021, 11, 527.	1.4	3
795	Stimuli-Responsive Lysozyme Nanocapsule Engineered Microfiltration Membranes with a Dual-Function of Anti-Adhesion and Antibacteria for Biofouling Mitigation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32205-32216.	4.0	12
796	A co-casting route enables the formation of skinless, hydrophobic poly(vinylidene fluoride) membranes for DCMD. <i>Journal of Membrane Science</i> , 2021, 630, 119299.	4.1	25
797	Poly(ionic liquid)-Based charge and size selective loose nanofiltration membrane for molecular separation. <i>Chemical Engineering Journal</i> , 2021, 418, 129372.	6.6	17
798	Enhanced Mechanical and Thermal Resistances of Nanoimprinted Antireflective Moth Eye Surfaces Based on Poly Vinylidene Fluoride/TiO ₂ Surface Nanocomposites. <i>Advanced Engineering Materials</i> , 0, , 2100603.	1.6	2

#	ARTICLE	IF	CITATIONS
799	Tamisolve® NxG as an Alternative Non-Toxic Solvent for the Preparation of Porous Poly (Vinylidene) Tj ETQq0 0 0 r gBT /Overlock 10 Tf	2.0	13
800	Modeling of the flow inside a pore in vacuum membrane distillation. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 1.	0.6	1
801	Direct ink writing of dehydrofluorinated Poly(Vinylidene Difluoride) for microfiltration membrane fabrication. Journal of Membrane Science, 2021, 632, 119347.	4.1	10
802	Fused filament fabrication and mechanical performance of PVDF-based specialty thermoplastics. International Journal of Advanced Manufacturing Technology, 2021, 117, 3267-3280.	1.5	2
803	In situ syntheses of NH2-MIL-53/PVDF composite membranes for dyes separation. Separation and Purification Technology, 2021, 269, 118760.	3.9	25
804	Direct Ink Writing of Electroactive Polymers for Sensing and Energy Storage Applications. Macromolecular Materials and Engineering, 2021, 306, 2100372.	1.7	12
805	Photocatalytic PVDF ultrafiltration membrane blended with visible-light responsive Fe(III)-TiO2 catalyst: Degradation kinetics, catalytic performance and reusability. Chemical Engineering Journal, 2021, 417, 129340.	6.6	67
806	Antibacterial Filtration Membranes Based on PVDF-co-HFP Nanofibers with the Addition of Medium-Chain 1-Monoacylglycerols. ACS Applied Materials & Interfaces, 2021, 13, 41021-41033.	4.0	9
807	Planar chromatography and immunodetection of hydrocarbons on polyvinylidene difluoride membranes. Journal of Separation Science, 2021, 44, 3654-3664.	1.3	1
808	Application of graphitic carbon nitrides in developing polymeric membranes: A review. Chemical Engineering Research and Design, 2021, 173, 234-252.	2.7	18
809	Graphene Oxide and Carbon Nanotubes-Based Polyvinylidene Fluoride Membrane for Highly Increased Water Treatment. Nanomaterials, 2021, 11, 2498.	1.9	5
810	Preparation of hydrophilic polyvinylidene fluoride/polyvinyl alcohol ultrafiltration membrane via polymer/non-solvent co-induced phase separation method towards enhance anti-fouling performance. Journal of Environmental Chemical Engineering, 2021, 9, 106431.	3.3	20
811	A novel in-situ micro-aeration functional membrane with excellent decoloration efficiency and antifouling performance. Journal of Membrane Science, 2022, 641, 119925.	4.1	101
812	Ammonia removal from raw water by using adsorptive membrane filtration process. Separation and Purification Technology, 2021, 270, 118757.	3.9	31
813	A Synthetic Overview of Preparation Protocols of Nonmetallic, Contact-Active Antimicrobial Quaternary Surfaces on Polymer Substrates. Macromolecular Rapid Communications, 2021, 42, 2100437.	2.0	5
814	Photodegradation of textile pollutants by nanocomposite membranes of polyvinylidene fluoride integrated with polyaniline-titanium dioxide nanotubes. Chemical Engineering Journal, 2021, 419, 129542.	6.6	29
815	Contemporary Techniques for Remediating Endocrine-Disrupting Compounds in Various Water Sources: Advances in Treatment Methods and Their Limitations. Polymers, 2021, 13, 3229.	2.0	17
816	Thermo-Responsive Membranes from Blends of PVDF and PNIPAM-b-PVDF Block Copolymers with Linear and Star Architectures. Macromolecules, 2021, 54, 10235-10250.	2.2	17

#	ARTICLE	IF	CITATIONS
817	Lightweight PVDF/ Fe_3O_4 /PANI foam for efficient broadband microwave absorption in the K and Ka bands. <i>Journal of Alloys and Compounds</i> , 2021, 876, 159983.	2.8	14
818	Equivalent capacitor of polyvinylidene fluoride sensor and its influence on impact load measurement. <i>Smart Materials and Structures</i> , 2021, 30, 115002.	1.8	5
819	The significance of aqueous binders in lithium-ion batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111227.	8.2	63
820	A review on graphitic carbon nitride (g-C ₃ N ₄) based hybrid membranes for water and wastewater treatment. <i>Science of the Total Environment</i> , 2021, 792, 148462.	3.9	51
821	Advanced graphene oxide-based membranes as a potential alternative for dyes removal: A review. <i>Science of the Total Environment</i> , 2021, 789, 147957.	3.9	74
822	Influence of chemical structure of bile acid dispersants on electrophoretic deposition of poly(vinylidene fluoride) and composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127181.	2.3	4
823	Hydrophobic poly(vinylidene fluoride) / siloxene nanofiltration membranes. <i>Journal of Membrane Science</i> , 2021, 635, 119447.	4.1	9
824	Two dimensional COFs as ultra-thin interlayer to build TFN hollow fiber nanofiltration membrane for desalination and heavy metal wastewater treatment. <i>Journal of Membrane Science</i> , 2021, 635, 119523.	4.1	67
825	Modification and superhydrophilization of electrospun polyvinylidene fluoride membrane using graphene oxide-chitosan nanostructure and performance evaluation in oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106245.	3.3	31
826	Polydopamine modification of high-performance PVDF ultrafiltration membranes prepared by the combined crystallisation and diffusion (CCD) method. <i>Journal of Membrane Science</i> , 2021, 635, 119538.	4.1	15
827	Electrochemical characterization of Li-ion conducting polyvinylidene fluoride/sulfonated graphene oxide nanocomposite polymer electrolyte membranes for lithium ion batteries. <i>Journal of Membrane Science</i> , 2021, 636, 119563.	4.1	13
828	Fabrication of PVDF/CdS/Bi ₂ S ₃ /Bi ₂ MoO ₆ and Bacillus/PVA hybrid membrane for efficient removal of nitrite. <i>Separation and Purification Technology</i> , 2021, 275, 119195.	3.9	6
829	High sensitivity enhancement of multi-shaped silver-nanoparticle-decorated hydrophilic PVDF-based SERS substrates using solvating pretreatment. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130614.	4.0	8
830	SiC foam with a hollow skeleton and microporous strut wall used as a membrane contactor for the liquid-liquid extraction of Ce ³⁺ and Pr ³⁺ . <i>Journal of Membrane Science</i> , 2021, 637, 119640.	4.1	3
831	Critical contributions of additives on the fabrication of asymmetric isoporous membranes from block copolymers: A review. <i>Chemical Engineering Journal</i> , 2021, 424, 128912.	6.6	14
832	A CO ₂ -stimulus responsive PVDF/PVDF-g-PDEAEMA blend membrane capable of cleaning protein foulants by alternate aeration of N ₂ /CO ₂ . <i>Separation and Purification Technology</i> , 2021, 279, 119680.	3.9	14
833	Fluorine-free and hydrophobic/oleophilic PMMA/PDMS electrospun nanofibrous membranes for gravity-driven removal of water from oil-rich emulsions. <i>Separation and Purification Technology</i> , 2021, 279, 119720.	3.9	24
834	Fabrication of a superhydrophobic mixed matrix PVDF-SiO ₂ -HDTMS hollow fiber membrane for membrane contact carbon dioxide absorption. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100278.	2.1	10

#	ARTICLE	IF	CITATIONS
835	A review on models and simulations of membrane formation via phase inversion processes. Journal of Membrane Science, 2021, 640, 119810.	4.1	45
836	Electroless Ni–Sn–P plating to fabricate nickel alloy coated polypropylene membrane with enhanced performance. Journal of Membrane Science, 2021, 640, 119820.	4.1	72
837	Polyvinyl chloride-based membranes: A review on fabrication techniques, applications and future perspectives. Separation and Purification Technology, 2021, 279, 119678.	3.9	44
838	Extraction and separation of heavy rare earth elements: A review. Separation and Purification Technology, 2021, 276, 119263.	3.9	96
839	Development of low-fouling PVDF membranes blended with poly(2-methoxyethyl acrylate) via NIPS process. Separation and Purification Technology, 2021, 276, 119331.	3.9	20
840	A review on microporous polyvinylidene fluoride membranes fabricated via thermally induced phase separation for MF/UF application. Journal of Membrane Science, 2021, 639, 119759.	4.1	77
841	Comprehensive review of membrane design and synthesis for membrane distillation. Desalination, 2021, 518, 115168.	4.0	68
842	Incorporation of barium titanate nanoparticles in piezoelectric PVDF membrane. Journal of Membrane Science, 2021, 640, 119861.	4.1	32
843	Investigating the effect of PEG200 and two-dimensional h-BN on PVDF membrane performance for membrane distillation–crystallization. Materials Today Chemistry, 2021, 22, 100545.	1.7	3
844	Microstructure manipulation in PVDF/SMA/MWCNTs ultrafiltration membranes: Effects of hydrogen bonding and crystallization during the membrane formation. Separation and Purification Technology, 2021, 278, 119523.	3.9	13
845	In situ growth of photocatalytic Ag-decorated β -Bi ₂ O ₃ /Bi ₂ O _{2.7} heterostructure film on PVC polymer matrices with self-cleaning and antibacterial properties. Chemical Engineering Journal, 2022, 429, 131058.	6.6	13
846	Next-generation nanomaterials for environmental industries: Prospects and challenges. , 2022, , 399-415.		1
847	Anti-fouling and protein separation of PVDF-g-PMAA@MnO ₂ filtration membrane with in-situ grown MnO ₂ nanorods. Chemosphere, 2022, 286, 131756.	4.2	13
848	Metal-organic framework based molecularly imprinted nanofiber membranes with enhanced selective recognition and separation performance: A multiple strengthening system. Separation and Purification Technology, 2021, 278, 119624.	3.9	17
849	Enhanced Anti-Fouling Behavior and Performance of PES Membrane by UV Treatment. Processes, 2021, 9, 246.	1.3	11
850	Generating Electricity from Natural Evaporation Using PVDF Thin Films Incorporating Nanocomposite Materials. Energies, 2021, 14, 585.	1.6	2
851	Synthesis and Characterization of PVDF/PMMA-Based Piezoelectric Blend Membrane. Lecture Notes in Mechanical Engineering, 2021, , 889-895.	0.3	2
852	Biomass-based materials for green lithium secondary batteries. Energy and Environmental Science, 2021, 14, 1326-1379.	15.6	157

#	ARTICLE	IF	CITATIONS
853	Desalination. <i>Polymers and Polymeric Composites</i> , 2019, , 1011-1044.	0.6	1
854	Photo-Fenton activation mechanism and antifouling performance of an FeOCl-coated ceramic membrane. <i>Chemical Engineering Journal</i> , 2020, 402, 125477.	6.6	40
855	Insight into fouling behavior of poly(vinylidene fluoride) (PVDF) hollow fiber membranes caused by dextran with different pore size distributions. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 268-277.	1.7	41
856	Synthesis of PVDF/MWCNT nanocomplex microfiltration membrane via atom transfer radical addition (ATRA) with enhanced fouling performance. <i>Separation and Purification Technology</i> , 2020, 246, 116860.	3.9	18
857	Enhanced removal of Cr(VI) by polymer inclusion membrane based on poly(vinylidene fluoride) and Aliquat 336. <i>Separation and Purification Technology</i> , 2020, 248, 117038.	3.9	30
858	Effects of dissolution conditions on the properties of PVDF ultrafiltration membranes. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 716-726.	3.8	16
859	Hollow Fiber Membrane Contactors in CO ₂ Desorption: A Review. <i>Energy & Fuels</i> , 2021, 35, 111-136.	2.5	36
860	Tuning Charge Transport in PVDF-Based Organic Ferroelectric Transistors: Status and Outlook. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26757-26775.	4.0	24
861	Porous MOF-808@PVDF beads for removal of iodine from gas streams. <i>RSC Advances</i> , 2020, 10, 44679-44687.	1.7	37
862	Percolation threshold of multiwall carbon nanotube-PVDF composite for electromagnetic wave propagation. <i>Nano Express</i> , 2020, 1, 010060.	1.2	12
863	Influence of isocyanate index on the mechanical and dielectric properties of polyurea. , 2019, , .		1
864	Effect of Different Pore-Forming Additives on the Formation of PVDF Microporous Membranes for Bucky-Gel Actuator. <i>Eurasian Chemico-Technological Journal</i> , 2020, 22, 107.	0.3	1
865	The contrastive study of chemical treatment on the properties of hydrophobic PVDF membrane. <i>Journal of Applied Science & Process Engineering</i> , 2015, 2, .	0.0	2
866	Composite Ferroelectric Membranes Based on Vinylidene Fluoride-Tetrafluoroethylene Copolymer and Polyvinylpyrrolidone for Wound Healing. <i>Membranes</i> , 2021, 11, 21.	1.4	6
867	New Concept for Dual-Layer Hydrophilic/Hydrophobic Composite Membrane for Membrane Distillation. <i>Journal of Membrane and Separation Technology</i> , 2015, 4, 122-133.	0.4	6
868	Effect of Incorporating TiO ₂ Photocatalyst in PVDF Hollow Fibre Membrane for Photo-Assisted Degradation of Methylene Blue. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2018, 13, 588.	0.5	12
869	Fabrication of Joule Heating Coating Layers via Flame Spraying for Membrane Distillation. <i>Surface Innovations</i> , 0, , 1-16.	1.4	1
870	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

#	ARTICLE	IF	CITATIONS
871	Surface architecture and proton conduction in SPVDF-co-HFP based nanocomposite membrane for fuel cell applications: Influence of aprotic solvent mixture. <i>Polymer</i> , 2021, 234, 124248.	1.8	3
872	A Morphological Study of Poly (Vinylidene Fluoride) PvdF Membranes: In Perspective of Membrane Pervaporation Process. <i>ASEAN Journal of Chemical Engineering</i> , 2015, 14, 38.	0.5	4
873	Modification of polyvinylidene fluoride membranes with magnetite nanoparticles. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2018, 9, 203-211.	0.2	2
874	Surface Modification of PVDF Copolymer Nanofiber by Chitosan/Ag(NP)/Nanosilica Composite. <i>IFMBE Proceedings</i> , 2020, , 225-230.	0.2	0
875	Fabrication of Nanofiltration Membrane Utilising Surfactant Via Non-Solvent Induced Phase Separation Method. <i>SPEKTRA Jurnal Kajian Pendidikan Sains</i> , 2019, 5, 129.	0.1	0
876	Membrane Fouling Mitigation in Water Filtration Using Piezoelectrics. , 2019, , .		0
877	Preparation of hydrophobic flat sheet membranes from PVDF-HFP copolymer for enhancing the oxygen permeance in nitrogen/oxygen gas mixture. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1566-1581.	1.7	8
878	Morphology of Micro-Porous Membrane of Waste Cigarette Butts Using Phase Inversion Method. <i>Key Engineering Materials</i> , 0, 860, 310-314.	0.4	0
879	Effect of Polyvinyl Pyrrolidone on Polyvinyl Chloride-Graft-Acrylamide Membranes. <i>Engineering and Technology Journal</i> , 2020, 38, 1305-1315.	0.4	1
880	Review of membrane technology applications in wastewater treatment and biofuels. <i>Materials Today: Proceedings</i> , 2022, 61, 379-385.	0.9	3
881	Enhanced Thermal Conductivity of Polymer Composite by Adding Fishbone-like Silicon Carbide. <i>Nanomaterials</i> , 2021, 11, 2891.	1.9	5
882	Superhydrophilic Sandwich Structure Aerogel Membrane for Emulsion Separation and Heavy Metal Ion Removal. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5470-5480.	2.0	7
883	Electrospinning process control for fiber-structured poly(Bisphenol A-co-Epichlorohydrin) membrane. <i>AIMS Materials Science</i> , 2020, 7, 130-143.	0.7	2
884	Application of flying jet plasma for amelioration of polyvinylidene fluoride membrane properties towards enhanced membrane distillation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, .	0.8	1
885	Dye Separation and Antibacterial Activities of Polyaniline Thin Film-Coated Poly(phenyl sulfone) Membranes. <i>Membranes</i> , 2021, 11, 25.	1.4	10
886	Different Bioremediation Techniques for Management of Waste Water. , 2022, , 357-374.		0
887	Dynamics of biofilms on different polymeric membranes – A comparative study using five physiologically and genetically distinct bacteria. <i>Journal of Membrane Science</i> , 2022, 642, 120000.	4.1	12
888	Prospects of nanocomposite membranes for gas separation by membrane contactors. , 2020, , 439-456.		1

#	ARTICLE	IF	CITATIONS
889	Fabrication and characterization of a novel acacia gum copolymer for improving graphene-based membrane. AIP Conference Proceedings, 2020, , .	0.3	0
890	In-situ construction of high-modulus nanospheres on elastomer fibers for linearity-tunable strain sensing. Chemical Engineering Journal, 2022, 431, 133488.	6.6	11
891	Enhancement of piezoelectricity in polymer PVDF based on molecular chain structure. Journal of Materials Science: Materials in Electronics, 2021, 32, 28708-28717.	1.1	3
892	Analysis on the Influence of O-MMT in the Properties and Bacterial Count of PVDF Nanocomposite Membrane. Materials Science Forum, 0, 1015, 97-102.	0.3	0
893	Progress of low-frequency sound absorption research utilizing intelligent materials and acoustic metamaterials. RSC Advances, 2021, 11, 37784-37800.	1.7	20
894	Hemocompatibility enhancement of polyethersulfone membranes: Strategies and challenges. , 2021, 1, 100013.		11
895	Tailoring the dual role of styrene-maleic anhydride copolymer in the fabrication of polysulfone ultrafiltration membranes: Acting as a pore former and amphiphilic surface modifier. Separation and Purification Technology, 2022, 283, 120219.	3.9	18
896	3D printed nanofiltration composite membranes with reduced concentration polarisation. Journal of Membrane Science, 2022, 644, 120137.	4.1	17
897	Enhanced piezoelectric and photocatalytic performance of flexible energy harvester based on CsZn _{0.75} Pb _{0.25} I ₃ /CNC/PVDF composite nanofibers. Chemical Engineering Journal, 2022, 433, 133620.	6.6	59
898	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
899	One-Pot Cascade Catalysis of Dehydrochlorination of Greenhouse Gas HCFC-142b and Hydrochlorination of Acetylene for the Spontaneous Production of VDF and VCM. ACS ES&T Engineering, 2022, 2, 121-128.	3.7	1
900	Practical Demonstration of Deep-Ultraviolet Detection with Wearable and Self-Powered Halide Perovskite-Based Photodetector. ACS Applied Materials & Interfaces, 2021, 13, 57609-57618.	4.0	28
901	Piezoelectric materials and systems for tissue engineering and implantable energy harvesting devices for biomedical applications. International Materials Reviews, 2022, 67, 683-733.	9.4	21
902	Effect of the Zeta Potential on the Corrosion Resistance of Electroless Nickel and PVDF Composite Layers Using Surfactants. ACS Omega, 2021, 6, 33122-33129.	1.6	2
903	Membrane Distillation: Recent Configurations, Membrane Surface Engineering, and Applications. Membranes, 2021, 11, 934.	1.4	27
904	Fabrication and modification of PVDF/PSF hollow-fiber membranes for ginseng extract and saline water separations via direct contact membrane distillation. Journal of Membrane Science, 2022, 644, 120101.	4.1	30
905	Radiation grafting of vapour grown carbon nanofibers on cellulose acetate/halloysite nanotubes matrix membrane for MgSO ₄ rejection. Journal of Environmental Chemical Engineering, 2021, 9, 106804.	3.3	4
906	Hybrid PVDF-P(L-DOPA)-ZnO membranes for dyes and antibiotics removal through simultaneous action of adsorption and photocatalysis processes. Journal of Environmental Chemical Engineering, 2021, 9, 106812.	3.3	18

#	ARTICLE	IF	CITATIONS
907	Lightweight, strong, flame-retardant PVDF/PMMA microcellular foams for thermal insulation fabricated by supercritical CO ₂ foaming. <i>Composites Part B: Engineering</i> , 2022, 230, 109554.	5.9	21
908	Synergistic oxidation-filtration process of electroactive peroxydisulfate with a cathodic composite CNT-PPy/PVDF ultrafiltration membrane. <i>Water Research</i> , 2022, 210, 117971.	5.3	44
909	Superior high-temperature rate performance of LiFePO ₄ cathode: The stabilizing effect of a multicomponent gel biopolymer binder. <i>Journal of Power Sources</i> , 2022, 521, 230955.	4.0	10
910	Desirable PVDF hollow fiber membrane engineered with synergism between small molecular weight additives for DCMD treating of a hypersaline brine. <i>Journal of Water Process Engineering</i> , 2022, 45, 102528.	2.6	5
911	A review on dendrimers in preparation and modification of membranes: progress, applications, and challenges. <i>Materials Today Chemistry</i> , 2022, 23, 100683.	1.7	13
912	Silver nanoparticles decorated polyhedral oligomeric silsesquioxane nanocages as an effective nanoadditive for improved structural and biological properties of poly(vinylidene fluoride) membranes. <i>Journal of Membrane Science</i> , 2022, 644, 119643.	1.7	4
913	Facile solvent evaporation synthesis of core-shell structured Al@PVDF nanoparticles with excellent corrosion resistance and combustion properties. <i>Combustion and Flame</i> , 2022, 238, 111925.	2.8	16
914	Flexible Piezoelectric Micro Ultrasonic Transducer Based on a Laser Processed Substrate. , 2020, , .		1
915	Launching Deep Eutectic Solvents (DESs) and Natural Deep Eutectic Solvents (NADESs) for the Preparation of More Sustainable Membranes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
916	Influence of molecular weight on dielectric properties and piezoelectric constant of poly(vinylidene fluoride) membranes. <i>Journal of Membrane Science</i> , 2022, 644, 119643.	0.4	1
917	Kinetic control concept for the diffusion processes of paracetamol active molecules across affinity polymer membranes from acidic solutions. <i>BMC Chemistry</i> , 2022, 16, 2.	1.6	1
918	Impact resistance test system for the helmet based on a polyvinylidene fluoride piezoelectric sensor array. <i>International Journal of Occupational Safety and Ergonomics</i> , 2023, 29, 199-206.	1.1	0
919	A Facile Strategy for Preparation of Yttrium-90 Therapeutic Sources for Radionuclide Therapy. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2022, , .	0.7	0
920	Study on the modification of polyvinylidene fluoride with polyurethane to achieve excellent hydrophilic property. <i>Main Group Chemistry</i> , 2022, , 1-9.	0.4	2
921	Talcum-doped composite separator with superior wettability and heatproof properties for high-rate lithium metal batteries. <i>Chinese Chemical Letters</i> , 2023, 34, 107087.	4.8	4
922	Modified Poly(vinylidene fluoride) by Diethylenetriamine as a Supported Anion Exchange Membrane for Lithium Salt Concentration by Hybrid Capacitive Deionization. <i>Membranes</i> , 2022, 12, 103.	1.4	5
923	Hybrid Organic-Inorganic Membranes for Photocatalytic Water Remediation. <i>Catalysts</i> , 2022, 12, 180.	1.6	15
924	Investigations on electronic and optical properties of Zn:CdO-PVDF polymer composite thin films. <i>Polymer Bulletin</i> , 0, , 1.	1.7	0

#	ARTICLE	IF	CITATIONS
925	Synthesis of polyvinylidene fluoride and its copolymers. , 2022, , 85-112.		2
926	Highly Efficient One-Step Protein Immobilization on Polymer Membranes Supported by Response Surface Methodology. <i>Frontiers in Chemistry</i> , 2021, 9, 804698.	1.8	6
927	Advances in Membrane Distillation Module Configurations. <i>Membranes</i> , 2022, 12, 81.	1.4	35
928	Long Two-Dimensional Folding Chain Structure Formation of Poly(vinylidene fluoride) in Solutions of a Polar Solvent, <i>N</i> -Methylpyrrolidone. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1255-1263.	2.0	4
929	Fundamentals of membrane technology. , 2022, , 1-23.		0
930	Solution processing of piezoelectric unconventional structures. , 2022, , 375-439.		3
931	Fouling Prevention in Polymeric Membranes by Radiation Induced Graft Copolymerization. <i>Polymers</i> , 2022, 14, 197.	2.0	10
932	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
933	Influence of shunt capacitance on impact load measurement of polyvinylidene fluoride sensor. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110592.	2.5	1
934	Fabrication of electro spun nylon6.12/chitosan @PES nanofibrous UF membrane towards dyes rejection from synthetic wastewater. <i>Polymer Bulletin</i> , 2023, 80, 977-999.	1.7	6
935	An innovative hollow fiber vacuum membrane distillation-crystallization (VMDC) coupling process for dye house effluent separation to reclaim fresh water and salts. <i>Journal of Cleaner Production</i> , 2022, 337, 130586.	4.6	10
936	Lithium hydroxyphenyl propanesulfonate imparts composite solid polymer electrolytes with ultrahigh ionic conductivity for dendrite free lithium batteries. <i>Chemical Engineering Journal</i> , 2022, 435, 134775.	6.6	12
937	The synthesis of an amended membrane coated with graphene oxide and dopamine and guanidyl-based modifier and its antifouling properties. <i>Water Science and Technology</i> , 2022, 85, 1470-1483.	1.2	3
938	Bisphenol A Removal Using Visible Light Driven Cu ₂ O/PVDF Photocatalytic Dual Layer Hollow Fiber Membrane. <i>Membranes</i> , 2022, 12, 208.	1.4	9
939	Integrally skinned asymmetric poly(vinylidene fluoride) hollow fibre membranes: A study of gas and vapour transport properties. <i>Journal of Membrane Science</i> , 2022, 648, 120343.	4.1	3
940	Preparation of Hollow Ceramic Photocatalytic Membrane Grafted with Silicon Doped TiO ₂ Nanorods and Conversion of High Concentration No. SSRN Electronic Journal, 0, , .	0.4	0
942	Zwitterion-modified membranes for water reclamation. , 2022, , 349-389.		1
943	Biodegradable Polymer-Based Microfluidic Membranes for Sustainable Point-of-Care Devices. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
944	Preparation of Antifouling and Antibacterial Polyvinylidene Fluoride Membrane by Incorporating Functionalized Multiwalled Carbon Nanotubes. SSRN Electronic Journal, 0, , .	0.4	0
945	Polymer-based nano-enhanced microfiltration/ultrafiltration membranes. , 2022, , 81-118.		0
946	Fabrication of Anti-Fouling and Anti-Bacterial Hydrophilic Coating Through Enzymatically-Synthesized Celooligomers. SSRN Electronic Journal, 0, , .	0.4	0
947	Simulated Preparation and Hydration Property of a New-Generation Zwitterionic Modified PvdF Antifouling Membrane. SSRN Electronic Journal, 0, , .	0.4	0
948	Novel polymeric additives in the preparation and modification of polymeric membranes: A comprehensive review. Journal of Industrial and Engineering Chemistry, 2022, 109, 100-124.	2.9	33
949	Polymeric Membranes for Oil-Water Separation: A Review. Polymers, 2022, 14, 980.	2.0	70
950	Robust Preparation and Pore Structure Design of Homogeneous Braided Reinforced PVDF Hollow Fiber Membrane. Advanced Materials Interfaces, 2022, 9, .	1.9	4
951	Thermal properties of hybrid membrane-based PVDF modified with cellulose and silylated cellulose. Journal of Physics: Conference Series, 2022, 2190, 012017.	0.3	0
952	Recent Progress in Protective Membranes Fabricated via Electrospinning: Advanced Materials, Biomimetic Structures, and Functional Applications. Advanced Materials, 2022, 34, e2107938.	11.1	141
953	Polymer Composites with Graphene and Its Derivatives as Functional Materials of the Future. Polymer Science - Series C, 2022, 64, 40-61.	0.8	4
954	Proton exchange membrane from the blend of poly(vinylidene fluoride) and functional copolymer: Preparation, proton conductivity, methanol permeability, and stability. International Journal of Hydrogen Energy, 2022, 47, 41920-41931.	3.8	14
955	Modification of the surface of polyvinylidene fluoride membranes with polyethyleneimine. Himia, Fizika Ta Tehnologija Poverhni, 2022, 13, 94-104.	0.2	1
956	Enhanced morphology and hydrophilicity of PVDF flat membrane with modified CaCO ₃ @SMA additive via thermally induced phase separation method. Journal of Industrial and Engineering Chemistry, 2022, 107, 444-455.	2.9	12
957	Surface Modification of PVDF Membrane Using Formic Acid for Enhance the Hydrophobicity for Desalination. Materials Science Forum, 0, 1056, 151-158.	0.3	0
958	Strategically Altered Fluorinated Polymer at Nanoscale for Enhancing Proton Conduction and Power Generation from Salinity Gradient. Membranes, 2022, 12, 395.	1.4	2
959	Launching deep eutectic solvents (DESs) and natural deep eutectic solvents (NADESs), in combination with different harmless co-solvents, for the preparation of more sustainable membranes. Journal of Membrane Science, 2022, 649, 120387.	4.1	25
960	Enhancing thermal conductivity of segregated structural PE/PVDF/BN composites: Role of viscosities. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106893.	3.8	9
961	Concentrating phosphoric acid by direct contact membrane distillation using a low-cost polyethylene separator. Desalination, 2022, 530, 115664.	4.0	6

#	ARTICLE	IF	CITATIONS
962	Cellulose derived from oil palm empty fruit bunches as filler on polyvinylidene fluoride based membrane for water containing humic acid treatment. Groundwater for Sustainable Development, 2022, 17, 100744.	2.3	12
963	Adsorption and detection of heavy metals from aqueous water by PVDF/ATP-CDs composite membrane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128573.	2.3	12
964	Functionalized polymeric smart membrane for remediation of emerging environmental contaminants from industrial sources: Synthesis, characterization and potential applications. Chemical Engineering Research and Design, 2022, 161, 684-702.	2.7	10
965	Design strategy of poly(vinylidene fluoride) membranes for water treatment. Progress in Polymer Science, 2022, 128, 101535.	11.8	73
966	Intelligently identifiable membrane immunochip sensor based on Braille-like code for simultaneous multi-veterinary drug detection. Sensors and Actuators B: Chemical, 2022, 359, 131571.	4.0	3
967	Cost-effective polymer-based membranes for drinking water purification. Giant, 2022, 10, 100099.	2.5	26
968	Fabrication of high flux porphrin-cored with siloxane-poly(amido amine) dendrimer/PVDF composite membrane for oil/water separation and dye degradation. Journal of Environmental Chemical Engineering, 2022, 10, 107634.	3.3	7
969	Polyvinylidene fluoride/boehmite nanocomposite membrane for effective removal of arsenate ion from water. Journal of Water Process Engineering, 2022, 47, 102652.	2.6	5
970	Preparation of hollow ceramic photocatalytic membrane grafted with silicon-doped TiO ₂ nanorods and conversion of high-concentration NO. Chemical Engineering Journal, 2022, 437, 135261.	6.6	16
971	Simulated preparation and hydration property of a new-generation zwitterionic modified PVDF membrane. Journal of Membrane Science, 2022, 652, 120498.	4.1	10
972	Effect of crystal structure on nanofiber morphology and chemical modification; design of CeO ₂ /PVDF membrane. Polymer Testing, 2022, 110, 107568.	2.3	6
973	Hydrophobic silica sand ceramic hollow fiber membrane for desalination via direct contact membrane distillation. AEJ - Alexandria Engineering Journal, 2022, 61, 9609-9621.	3.4	15
974	Review of New Approaches for Fouling Mitigation in Membrane Separation Processes in Water Treatment Applications. Separations, 2022, 9, 1.	1.1	39
975	Hierarchically porous membranes for lithium rechargeable batteries: Recent progress and opportunities. EcoMat, 2022, 4, .	6.8	24
976	Preparation and selectivity evaluation of grafted temperature-responsive imprinted composite polyvinylidene fluoride resin membranes for selective adsorption of ReO ₄ ⁻ . Pigment and Resin Technology, 2021, ahead-of-print, .	0.5	0
977	Simple Fabrication of Porous 3D Substrate Polydimethylsiloxane (PDMS) Compositing with Polyvinylidene Fluoride-co-Hexafluoropropylene (PVDF-HFP) for Triboelectric Nanogenerator. Integrated Ferroelectrics, 2022, 222, 1-13.	0.3	5
978	Preparation of fiber core support UHMWPE/SiO ₂ composite hollow fiber membrane toward enhancing structure stability and antifouling. Polymer Engineering and Science, 2022, 62, 472-485.	1.5	8
979	Industrial application of membrane distillation technology using palm oil mill effluent in Malaysia. Materials Today: Proceedings, 2022, 57, 1282-1287.	0.9	4

#	ARTICLE	IF	CITATIONS
980	Lead-free NaNbO ₃ -based ferroelectric perovskites and their polar polymer-ceramic composites: Fundamentals and potentials for electronic and biomedical applications. <i>Ceramics International</i> , 2022, 48, 19527-19541.	2.3	12
981	Hydrophilic and Positively Charged Polyvinylidene Fluoride Membranes for Water Treatment with Excellent Anti-Oil and Anti-Biocontamination Properties. <i>Membranes</i> , 2022, 12, 438.	1.4	8
982	Electrospun PVDF/ZnO Based Composite Fibers for Oil Absorption and Photocatalytic Degradation of Organic Dyes from Waste Water. <i>Fibers and Polymers</i> , 2022, 23, 1217-1224.	1.1	6
983	Degradation of G-Type Nerve Agent Simulant with Phase-Inverted Spherical Polymeric-MOF Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19747-19755.	4.0	15
984	Flat PVDF Membrane with Enhanced Hydrophobicity through Alkali Activation and Organofluorosilanisation for Dissolved Methane Recovery. <i>Membranes</i> , 2022, 12, 426.	1.4	5
985	Rapid and selective recycling of Ag(I) from wastewater through an allylrhodanine functionalized micro-filtration membrane. <i>Chemical Engineering Journal</i> , 2022, , 136376.	6.6	4
986	Improving the performance of membrane contactors for carbon dioxide stripping from water: Experimental and theoretical analysis. <i>Journal of Membrane Science</i> , 2022, 654, 120552.	4.1	7
987	Influence of zwitterionic structure design on mixed matrix membrane stability, hydrophilicity, and fouling resistance: A computational study. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 114, 108187.	1.3	4
989	A Novel Material for High-Performance Li-O ₂ Battery Separator: Polyetherketone Nanofiber Membrane. <i>Small</i> , 2022, 18, e2201470.	5.2	6
991	Study on the Reconstruction of Crystalline Polymer Porous Membrane Pore Channels Via Confined-Region Swelling Effect. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
992	Polymer Features in Crystallization. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 545-555.	2.0	28
993	Life Cycle Assessment of the Polyvinylidene Fluoride Polymer with Applications in Various Emerging Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5708-5718.	3.2	8
994	Rotation-in-a-Spinneret integrates static mixers inside hollow fiber membranes. <i>Journal of Membrane Science</i> , 2022, 656, 120599.	4.1	7
995	Poly(vinylidene fluoride) Substrate-Supported Polyamide Membrane for High-Temperature Water Nanofiltration. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3820-3832.	2.0	10
996	A novel method to immobilize zwitterionic copolymers onto PVDF hollow fiber membrane surface to obtain antifouling membranes. <i>Journal of Membrane Science</i> , 2022, 656, 120592.	4.1	10
997	Study on the reconstruction of crystalline polymer porous membrane pore channels via confined-region swelling effect. <i>Separation and Purification Technology</i> , 2022, 293, 121090.	3.9	3
998	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112515.	8.2	87
999	Hydrophilic modification of polypropylene membrane via tannic and titanium complexation for high-efficiency oil/water emulsion separation driven by self-gravity. <i>Polymer Engineering and Science</i> , 2022, 62, 2131-2142.	1.5	12

#	ARTICLE	IF	CITATIONS
1000	Water flux enhancement of PVDF membrane by a facile coating method for vacuum membrane distillation. <i>Desalination</i> , 2022, 536, 115818.	4.0	16
1001	Effect of 200 keV H ⁺ ion implantation on films of poly(vinylidene fluoride). <i>Thin Solid Films</i> , 2022, , 139302.	0.8	1
1002	Novel procaine-based gemini zwitterion incorporated PVDF membranes for efficient treatment of oily wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107935.	3.3	14
1003	Granular activated carbon (GAC) fixed bed adsorption combined with ultrafiltration for shale gas wastewater internal reuse. <i>Environmental Research</i> , 2022, 212, 113486.	3.7	4
1004	Metal organic frameworks as a versatile platform for the radioactive iodine capture: State of the art developments and future prospects. <i>Inorganica Chimica Acta</i> , 2022, 539, 121026.	1.2	9
1005	Towards the development of new generation of ion exchange membranes for reverse electrodialysis: A review. <i>Desalination</i> , 2022, 537, 115854.	4.0	36
1006	Investigation on the Electrical and Magnetic Properties of PvdF/Srfe12o19 Composite Membranes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
1007	Ultra-Fast-Responsivity with Sharp Contrast Integrated Flexible Piezo Electrochromic Based Tactile Sensing Visualization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1009	Preparation of PVDF membrane via synergistically vapor and non-solvent-induced phase separation. <i>Applied Water Science</i> , 2022, 12, .	2.8	8
1010	Surfactants for Electrophoretic Deposition of Polyvinylidene Fluorideâ€“Silica Composites. <i>Surfaces</i> , 2022, 5, 308-317.	1.0	1
1012	Impact of nanoclays on polyvinylidene fluoride mixed matrix membranes for the efficient treatment of oily-wastewater. <i>Micro and Nanosystems</i> , 2022, 14, .	0.3	1
1013	Polyphenylsulfone/polyethylene glycol hexadecyl ether blend membranes with enhanced surface hydrophilicity for high-performance nanofiltration of dye solution. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2465-2473.	1.2	2
1014	Fluoropolymer-based hybrid superhydrophobic nanocomposite coating with antifouling and self-cleaning properties for efficient oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 650, 129504.	2.3	5
1015	Preparation of loose nanofiltration PVDF membrane coated with dopamine and EPPTMS layers based on mussel inspired technique and ring-opening reaction via a facile VIPS-NIGPS method for dye separation applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 113, 132-141.	2.9	14
1016	Nanoparticle-Enhanced Î²-Phase Formation in Electroactive PVDF Composites: A Review of Systems for Applications in Energy Harvesting, EMI Shielding, and Membrane Technology. <i>ACS Applied Nano Materials</i> , 2022, 5, 7632-7651.	2.4	53
1017	Covalent organic framework <sc>â€“poly</sc> (acrylic acid)â€“modified poly(vinylidene fluoride) ultrafiltration membranes towards enhanced antifouling properties and low hydrophilic material leaching. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	7
1018	Atomic layer deposition for membrane modification, functionalization and preparation: A review. <i>Journal of Membrane Science</i> , 2022, 658, 120740.	4.1	34
1019	Modification of PVDF membranes using BiOBr precursor in-situ deposition and tannic acid self-assembly for effectively removing organic pollutants. <i>Applied Surface Science</i> , 2022, 599, 153888.	3.1	13

#	ARTICLE	IF	CITATIONS
1020	Fabrication and application of novel high strength sulfonated PVDF ultrafiltration membrane for production of reclamation water. <i>Chemosphere</i> , 2022, 305, 135416.	4.2	7
1021	Preparation of Antifouling and Antibacterial Polyvinylidene Fluoride Membrane by Incorporating Functionalized Multiwalled Carbon Nanotubes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1022	3D Printed Piezoelectric Wound Dressing with Dual Piezoelectric Response Models for Scar-Prevention Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30507-30522.	4.0	60
1023	Synthesis and Characterization of Novel Poly(Vinylidene Fluoride)-Melamine Electrospun Nanofibers: An Extensive Analysis on Mechanical and Thermal Behavior. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 243-250.	1.2	5
1024	Recent progress of sulfur cathodes and other components for flexible lithium-sulfur batteries. <i>Materials Today Sustainability</i> , 2022, 19, 100181.	1.9	8
1025	Effect of Fabrication Method on the Thermo Mechanical and Electrical Properties of Graphene Doped PVDF Nanocomposites. <i>Nanomaterials</i> , 2022, 12, 2315.	1.9	0
1026	Recent advances in aqueous virus removal technologies. <i>Chemosphere</i> , 2022, 305, 135441.	4.2	36
1027	Fabrication of anti-fouling and anti-bacterial hydrophilic coating through enzymatically-synthesized celluloglomers. <i>Applied Surface Science</i> , 2022, 600, 154133.	3.1	4
1028	Non-templated manufacturing of patterned fluoropolymer membranes via immersion precipitation printing. <i>Additive Manufacturing</i> , 2022, 58, 103017.	1.7	1
1029	Homogeneous Blend PVDF Porous Membrane Without Pore-Forming Agent for Water Treatment. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 8519-8530.	1.7	1
1030	Ultra-fast-responsivity with sharp contrast integrated flexible piezo electrochromic based tactile sensing display. <i>Nano Energy</i> , 2022, 102, 107629.	8.2	27
1031	Sequential Deposition of Integrated Cathode-Inorganic Separator-Anode Multilayers for High Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 34538-34551.	4.0	3
1032	Green preparation of PVDF hollow fiber membranes with multiple pore structure via melt spinning method for oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108337.	3.3	24
1033	Effect of Irradiation Absorbed Dose and Organic Solvent on the Grafting Rate of PVDF-g-PHEMA through Gamma-ray Irradiation in a Homogenous Solution. <i>High Energy Chemistry</i> , 2022, 56, 264-269.	0.2	4
1034	Application of Polyvinylidene fluoride Materials for Treatment of Municipal Wastewater Using UASB Reactor Technologies: A Review. , 2022, , .		0
1035	The Effect of Heat Sterilization on Key Filtration Performance Parameters of a Commercial Polymeric (PVDF) Hollow-Fiber Ultrafiltration Membrane. <i>Membranes</i> , 2022, 12, 725.	1.4	1
1036	Membranes for Oil/Water Separation: A Review. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	44
1037	PVDF/MOFs mixed matrix ultrafiltration membrane for efficient water treatment. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	8

#	ARTICLE	IF	CITATIONS
1038	Investigation of different molecular weight Polyvinylidene Fluoride (PVDF) polymer for the fabrication and performance of braid hollow fiber membranes. Environmental Technology (United Kingdom), 2022, 43, 103042.	0.0	0
1039	Influence of Unipolar Corona Discharge Parameters on the Efficiency of Separation of Oil-Water Emulsions by Cellulose Acetate Membranes. Membranes and Membrane Technologies, 2022, 4, 223-231.	0.6	0
1040	Preparation of antifouling and antibacterial polyvinylidene fluoride membrane by incorporating functionalized multiwalled carbon nanotubes. Journal of Water Process Engineering, 2022, 49, 103042.	2.6	7
1041	Hexagonal boron nitride nanosheets incorporated photocatalytic polyvinylidene fluoride mixed matrix membranes for textile wastewater treatment via vacuum-assisted distillation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 653, 129955.	2.3	3
1042	Functionalized boron nitride ceramic nanofiltration membranes for semiconductor wastewater treatment. Separation and Purification Technology, 2022, 300, 121945.	3.9	16
1043	Anti-fouling and highly permeable thin-film composite forward osmosis membranes based on the reactive polyvinylidene fluoride porous substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 654, 130144.	2.3	6
1044	Poly(hydroxybutyrate-co-hydroxyvalerate) as a biodegradable binder in a negative electrode material for lithium-ion batteries. Applied Surface Science, 2022, 606, 154933.	3.1	5
1045	Membrane electrodes for electrochemical advanced oxidation processes: Preparation, self-cleaning mechanisms and prospects. Chemical Engineering Journal, 2023, 451, 138907.	6.6	41
1046	Preparation and characterization of energetic composite films with mutual reactions based on B/PVDF mosaic structure. Chemical Engineering Journal, 2023, 451, 138792.	6.6	8
1047	Fabrication of a Porous Polymer Electrolyte from Poly(Vinylidene Fluoride-Hexafluoropropylene) Via a One-Step Reactive Vapor Induced Phase Separation for Lithium Ion Battery. SSRN Electronic Journal, 2022, 10, 1047.	0.4	0
1048	Ecosystem Engineers: A Sustainable Catalyst for Environmental Remediation. Environmental Science: Water Research and Technology, 2022, 8, 2381-2397.		2
1049	Polycarbene-bearing membrane surface containing silver species for size and charge selective molecular separation. Environmental Science: Water Research and Technology, 2022, 8, 2381-2397.	1.2	0
1050	Membrane-based filtration technology. Environmental Science: Water Research and Technology, 2022, 8, 117-154.		0
1051	Poly(Hydroxybutyrate-Co-Hydroxyvalerate) as a Biodegradable Binder in a Negative Electrode Material for Lithium-Ion Batteries. SSRN Electronic Journal, 2022, 10, 1051.	0.4	0
1052	Surface free energy, microstructure and performance of polyvinylidene fluoride (PVDF) membrane: the influence of hydrophilic porogens. Ferroelectrics, 2022, 595, 60-72.	0.3	1
1053	Vapor-Triggered Mechanical Actuation in Polymer Composite Films Based on Crystalline Organic Cages. Angewandte Chemie - International Edition, 2022, 61, 134-138.	7.2	8
1054	2D Ag Ion-Loaded Anionic Nanosheets for Polymer-Based Film with Durable Antibacterial Activities. ACS Omega, 2022, 7, 33858-33865.	1.6	1
1055	Vapor-Triggered Mechanical Actuation in Polymer Composite Films Based on Crystalline Organic Cages. Angewandte Chemie, 2022, 134, 134-138.	1.6	2

#	ARTICLE	IF	CITATIONS
1056	The Effect of Chain Topology on the Crystallization and Polymorphism of PVDF: Linear versus Star Molecules. <i>Macromolecular Chemistry and Physics</i> , 2023, 224, .	1.1	3
1057	Gradient Adhesive Hydrogel Decorated Superhydrophilic Membranes for Ultra-Stable Oil/Water Separation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	58
1058	A Brief Introduction and Current State of Polyvinylidene Fluoride as an Energy Harvester. <i>Coatings</i> , 2022, 12, 1429.	1.2	7
1059	Properties of novel 3 PZT/silicone resin flexible piezoelectric composites for ultrasonic guided wave sensor applications. <i>Frontiers in Materials</i> , 0, 9, .	1.2	6
1060	Superhydrophilic Modification of Polyvinylidene Fluoride Membrane via a Highly Compatible Covalent Organic Framework-COOH/Dopamine-Integrated Hierarchical Assembly Strategy for Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 45880-45892.	4.0	11
1061	Comparative Study of the Structural, Mechanical and Electrochemical Properties of Polyacrylonitrile (PAN)-Based Polypyrrole (PPy) and Polyvinylidene Fluoride (PVDF) Electrospun Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2022, 61, 1103-1115.	0.4	1
1062	Fabrication of intra porous PVDF fibers and their applications for heavy metal removal, oil absorption and piezoelectric sensors. <i>Journal of Materiomics</i> , 2023, 9, 174-182.	2.8	2
1063	Water reclamation via membrane distillation applied to textile dye wastewater using a commercial poly(vinylidene fluoride) membrane. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 7981-7992.	1.8	1
1064	Highly oriented PVDF molecular chains for enhanced material performance. <i>Polymer</i> , 2022, 261, 125366.	1.8	7
1065	Surface modification of PVDF membrane via graft polymerization of acetic and acrylic acid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1257, 012032.	0.3	1
1066	Sustainable Superhydrophobic PVDF-Grafted Cellulose Membrane for Oil/Water Separation. <i>ACS Applied Polymer Materials</i> , 2022, 4, 8441-8449.	2.0	2
1068	Impact of Membrane Modification and Surface Immobilization Techniques on the Hemocompatibility of Hemodialysis Membranes: A Critical Review. <i>Membranes</i> , 2022, 12, 1063.	1.4	3
1069	Unveiling the Impacts of Sodium Hypochlorite on the Characteristics and Fouling Behaviors of Different Commercial Polyvinylidene Fluoride Hollow Fiber Membranes. <i>Membranes</i> , 2022, 12, 965.	1.4	2
1070	Nitrogen Self-Doping Carbon Derived from Functionalized Poly(Vinylidene Fluoride) (PVDF) for Supercapacitor and Adsorption Application. <i>Micromachines</i> , 2022, 13, 1747.	1.4	0
1071	Design and Fabrication of a Robust Chitosan/Polyvinyl Alcohol-Based Humidity Sensor energized by a Piezoelectric Generator. <i>Energies</i> , 2022, 15, 7609.	1.6	4
1072	Poly (Vinylidene Difluoride) Polymer in 1-Ethyl-3-methylimidazolium Acetate and Acetic Acid Containing Solvents: Tunable and Recoverable Solvent Media to Induce Crystalline Phase Transition and Porosity. <i>Sustainable Chemistry</i> , 2022, 3, 455-474.	2.2	0
1073	Facile One-Step Synthesis of PVDF Bead-on-String Fibers by Pressurized Gyration for Reusable Face Masks. <i>Polymers</i> , 2022, 14, 4498.	2.0	4
1074	Application of nanoarchitectonics in moist-electric generation. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 1185-1200.	1.5	12

#	ARTICLE	IF	CITATIONS
1075	Enhancing Thermal Conductivity of Polyvinylidene Fluoride Composites by Carbon Fiber: Length Effect of the Filler. <i>Polymers</i> , 2022, 14, 4599.	2.0	8
1076	PVC/PMMA blend ultrafiltration membranes for oil-in-water emulsion separation. <i>Polymer Bulletin</i> , 2023, 80, 9275-9295.	1.7	1
1077	A comprehensive review of membrane-based absorbers/desorbers towards compact and efficient absorption refrigeration systems. <i>Renewable Energy</i> , 2022, 201, 563-593.	4.3	8
1078	3D modeling of PVDF membrane aging using scanning electron microscope and OpenCV image analysis. <i>Journal of Membrane Science</i> , 2023, 666, 121141.	4.1	3
1079	Influence of Functionalized Hematite Nanoparticles as a Reinforcer for Composite PVDF-PEG Membrane for BPF Rejection: Permeability and Anti-fouling Studies. <i>Journal of Polymers and the Environment</i> , 2023, 31, 768-790.	2.4	5
1080	Facile self-assembly-based fabrication of a polyvinylidene fluoride nanofiber membrane with immobilized titanium dioxide nanoparticles for dye wastewater treatment. <i>Journal of Cleaner Production</i> , 2022, 378, 134506.	4.6	12
1081	Micro-polluted water resources treatment by PVDF-TiO ₂ membrane combined with Fe ²⁺ /sodium dithionite (DTN)/O ₂ pre-oxidation process. <i>Chemosphere</i> , 2023, 311, 136998.	4.2	5
1082	Tannic acid/ethylenediamine/succinic acid graft modified PVDF anti-pollution membrane and its application in the field of organic pollutant separation. <i>Journal of Materials Science</i> , 0, , .	1.7	1
1083	Current State-of-the-Art in Membrane Formation from Ultra-High Molecular Weight Polyethylene. <i>Membranes</i> , 2022, 12, 1137.	1.4	7
1084	Occupational Threat of Recycling Spent Lithium-Ion Batteries by Vacuum Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 15297-15304.	3.2	3
1086	Efficacy of Electrospun Nanofiber Membranes on Fouling Mitigation: A Review. <i>ACS Omega</i> , 2022, 7, 43346-43363.	1.6	3
1087	Advanced Lead-Free Piezoelectric Materials: Ceramics, Polymers, and Composites. , 2022, , 1-41.		0
1088	Co-immobilization of PPL and GOx on DUT-5/PVDF hybrid membranes and catalytic activity in the cascade oxidation of glucose and styrene. <i>New Journal of Chemistry</i> , 2023, 47, 2248-2256.	1.4	3
1089	PVDF/BNNSs nanocomposite membrane for simultaneous removal of Tetracycline and Ofloxacin from water. <i>Journal of Molecular Liquids</i> , 2023, 370, 120970.	2.3	3
1090	High performance waterproof-breathable fully flexible tactile sensor based on piezotronics coupled OFET. <i>Nano Energy</i> , 2023, 106, 108034.	8.2	15
1091	Enhanced and efficient removal of heavy metals by amino-decorated membranes in coordination with multi-function. <i>Journal of Water Process Engineering</i> , 2023, 51, 103328.	2.6	1
1092	Ammonia removal using thermally induced phase separation PVDF hollow fibre membrane contactors. <i>Separation and Purification Technology</i> , 2023, 307, 122780.	3.9	2
1093	Degradable and Recyclable Solar Desalination Membranes Based on Naturally Occurring Building Blocks. <i>Chemistry of Materials</i> , 2022, 34, 10399-10408.	3.2	20

#	ARTICLE	IF	CITATIONS
1094	Chemical cleaningâsolvent treatmentâhydrophilic modification strategy for regenerating end-of-life PVDF membrane. <i>Journal of Membrane Science</i> , 2023, 669, 121325.	4.1	4
1095	Effect of Polyvinylidene Fluoride Membrane Production Conditions on Its Structure and Performance Characteristics. <i>Polymers</i> , 2022, 14, 5283.	2.0	1
1096	Isothermal VaporâLiquid Equilibrium of the Binary Mixture of Octafluoropropane (R218) + Tetrafluoromonochloroethane (R124) at Temperatures from 283.15 to 323.15 K. <i>Journal of Chemical & Engineering Data</i> , 2023, 68, 151-161.	1.0	0
1097	Thermomechanical and Pre-Ignition Properties of Multicomponent Poly(Vnylidene Fluoride)/Aluminum Oxide/Single-Walled Carbon Nanotube Hybrid Nanocomposites. <i>Journal of Composites Science</i> , 2022, 6, 380.	1.4	1
1098	Enhancing oxidants activation by transition metal-modified catalytic membranes for wastewater treatment. <i>Research on Chemical Intermediates</i> , 2023, 49, 655-678.	1.3	4
1099	Enhancement of dielectric and magnetic properties of electroactive LaNiO ₃ based PVDF films by inclusion of magnetic Sn _{0.2} Fe _{2.8} O ₄ nanofiller. <i>Materials Chemistry and Physics</i> , 2023, 297, 127259.	2.0	2
1100	EVALUATION OF NITRATE REMOVAL FROM DAIRY WASTEWATER BY MEMBRANE DISTILLATION: A LABORATORY MODEL APPROACH. <i>Journal of Engineering and Sustainable Development</i> , 2023, 27, 127-137.	0.3	0
1101	Facile Fabrication of Superwetting PVDF Membrane for Highly Efficient Oil/Water Separation. <i>Polymers</i> , 2023, 15, 327.	2.0	4
1102	Cu(I) catalyzed ATRP for the preparation of high-performance poly (vinylidene fluoride)-g-poly 2-(dimethylamino)ethyl methacrylate crosslinked anion exchange membranes for enhanced acid recovery. <i>Journal of Membrane Science</i> , 2023, 671, 121387.	4.1	6
1103	Facile, green and scalable preparation of low-cost PET-PVDF felts for oil absorption and oil/water separation. <i>Journal of Hazardous Materials</i> , 2023, 448, 130804.	6.5	5
1104	Preparation of Lateral Flow PVDF Membrane via Combined Vapor- and Non-Solvent-Induced Phase Separation (V-NIPS). <i>Membranes</i> , 2023, 13, 91.	1.4	4
1105	Preparation of Poly(acrylic acidâcoâacrylamide) HydrogelâModified PVDF Membrane and Its Separation and Antibacterial Properties. <i>Macromolecular Chemistry and Physics</i> , 2023, 224, .	1.1	0
1106	Fabrication of firm, superhydrophobic and antimicrobial PVDF@ZnO@TA@DT electrospun nanofibrous membranes for emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 662, 130962.	2.3	12
1107	Use of Nucleating Agent NA11 in the Preparation of Polyvinylidene Fluoride Dual-Layer Hollow Fiber Membranes. <i>Membranes</i> , 2023, 13, 75.	1.4	3
1108	Synthesis and applications of graphitic carbon nitride (g-C ₃ N ₄) based membranes for wastewater treatment: A critical review. <i>Heliyon</i> , 2023, 9, e12685.	1.4	40
1109	Orientation gradient architecture of nanofibrous separator towards mechanical enhancement and ion transport acceleration for lithium-ion batteries. <i>Electrochimica Acta</i> , 2023, 441, 141794.	2.6	4
1110	Antibacterial and Antifouling Efficiency of Essential Oils-Loaded Electrospun Polyvinylidene Difluoride Membranes. <i>International Journal of Molecular Sciences</i> , 2023, 24, 423.	1.8	2
1111	Separation Mechanisms and Anti-Fouling Properties of a Microporous Polyvinylidene FluorideâPolyacrylic AcidâGraphene Oxide (PVDF-PAA-GO) Composite Membrane with Salt and Protein Solutions. <i>Membranes</i> , 2023, 13, 40.	1.4	1

#	ARTICLE	IF	CITATIONS
1112	Special Wetttable 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
1113	Low Fouling Nanostructured Cellulose Membranes for Ultrafiltration in Wastewater Treatment. <i>Membranes</i> , 2023, 13, 147.	1.4	3
1115	Future perspectives and market of the electrospun and nanofibrous membranes. , 2023, , 625-635.		0
1116	Intralaboratory Validation of a Kinetic Turbidimetric Assay Based on Limulus Amebocyte Lysate (LAL) for Assessing Endotoxin Activity in Cow Milk. <i>Animals</i> , 2023, 13, 427.	1.0	0
1117	Preparation of polyvinylidene fluoride/zeolite hybrid membrane for textile dyes filtration. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
1118	MXene-Functionalized Ferroelectric Nanocomposite Membranes with Modulating Surface Potential Enhance Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 900-917.	2.6	10
1119	Classification of membranes: With respect to pore size, material, and module type. , 2023, , 3-17.		0
1120	Membrane bioreactor for wastewater treatment: Fouling and abatement strategies. , 2023, , 173-202.		2
1121	Stability of Superhydrophobicity and Structure of PVDF Membranes Treated by Vacuum Oxygen Plasma and Organofluorosilanisation. <i>Membranes</i> , 2023, 13, 314.	1.4	3
1122	Emerging Advancements in Piezoelectric Nanomaterials for Dynamic Tumor Therapy. <i>Molecules</i> , 2023, 28, 3170.	1.7	1
1123	Rigid rod particle like viscoelastic responses of poly(vinylidene fluoride) in <i>N</i> -methylpyrrolidone solution. <i>Journal of Rheology</i> , 2023, 67, 683-692.	1.3	1
1124	Anti-fouling/wetting electrospun nanofibrous membranes for membrane distillation desalination: A comprehensive review. <i>Desalination</i> , 2023, 553, 116475.	4.0	16
1125	Helical-Ridge-Membranes from PVDF for enhanced gas-liquid mass transfer. <i>Journal of Membrane Science</i> , 2023, 673, 121471.	4.1	2
1126	Designing a robust biocompatible porous polymeric membrane using Laponite and graphene oxide for versatile and selective adsorption of water contaminants. <i>Chemical Engineering Journal</i> , 2023, 464, 142738.	6.6	10
1127	Superhydrophobic PVDF membrane formed by crystallization process for direct contact membrane distillation. <i>IScience</i> , 2023, 26, 106464.	1.9	2
1128	Simultaneous peeling of precious metals in cathode and anode of spent ternary batteries using electrolysis. <i>Separation and Purification Technology</i> , 2023, 313, 123478.	3.9	5
1129	Chemical cleaning and membrane aging of poly(vinylidene fluoride) (PVDF) membranes fabricated via non-solvent induced phase separation (NIPS) and thermally induced phase separation (TIPS). <i>Separation and Purification Technology</i> , 2023, 313, 123488.	3.9	8
1130	A novel glue attachment approach for precise anchoring of hydrophilic EGCG to enhance the separation performance and antifouling properties of PVDF membranes. <i>Chemical Engineering Journal</i> , 2023, 464, 142585.	6.6	5

#	ARTICLE	IF	CITATIONS
1131	Enhancing quorum quenching media with 3D robust electrospinning coating: A novel biofouling control strategy for membrane bioreactors. <i>Water Research</i> , 2023, 234, 119830.	5.3	9
1132	Bio-based tannic acid as a raw material for membrane surface modification. <i>Desalination</i> , 2023, 555, 116535.	4.0	14
1133	Lithium-sulfur battery cathode design: Sulfur-infiltrated PVDF nanofiber-based Fe ₃ O ₄ network for polysulfide adsorption and volume expansion suppression. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 666, 131331.	2.3	2
1134	Ultrathin g-C ₃ N ₄ composite Bi ₂ WO ₆ embedded in PVDF UF membrane with enhanced permeability, anti-fouling performance and durability for efficient removal of atrazine. <i>Journal of Hazardous Materials</i> , 2023, 451, 131154.	6.5	13
1135	Coaxial electrospun core-shell lithium-ion battery separator with flame retardant and thermal shutdown functions. <i>Materials Chemistry and Physics</i> , 2023, 301, 127647.	2.0	3
1136	Poly (amido amine) dendrimer based membranes for wastewater treatment – A critical review. <i>Chemical Engineering Science</i> , 2023, 273, 118665.	1.9	9
1137	Roles and gains of coordination chemistry in nanofiltration membrane: A review. <i>Chemosphere</i> , 2023, 318, 137930.	4.2	10
1138	Fabrication of lead zirconate titanate-based polyvinylidene fluoride polymer nano-composites: microcrystalline, morphological and electrical studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	2
1139	Challenges in Recycling Spent Lithium-Ion Batteries: Spotlight on Polyvinylidene Fluoride Removal. <i>Global Challenges</i> , 2023, 7, .	1.8	10
1140	Suppression of CO ₂ induced lithium anode corrosion by fluorinated functional group in quasi-solid polymer electrolyte enabling long-cycle and high-safety Li-CO ₂ batteries. <i>Energy Storage Materials</i> , 2023, 57, 260-268.	9.5	7
1141	Effect of incorporating hydrophilic silica on carbon dioxide volumetric mass transfer coefficient using a fabricated membrane as the diffuser. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0
1142	Investigation of the Effect of Atmospheric Plasma Treatment in Nanofiber and Nanocomposite Membranes for Piezoelectric Applications. <i>Membranes</i> , 2023, 13, 231.	1.4	0
1143	Study on Antifouling and Blood Compatibility Properties of Carboxyl and Sulfonic Acid Groups Modified Polyvinylidene Fluoride Membrane. <i>Fibers and Polymers</i> , 2023, 24, 801-810.	1.1	1
1144	Comparative assessment of managing dye effluents through centralized and decentralized plant. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
1145	Novel Mixed Matrix Membranes Based on Poly(vinylidene fluoride): Development, Characterization, Modeling. <i>Polymers</i> , 2023, 15, 1222.	2.0	2
1146	Fabrication of a porous polymer electrolyte from poly(vinylidene fluoride-hexafluoropropylene) via one-step reactive vapor-induced phase separation for lithium-ion battery. <i>Journal of Materials Science</i> , 2023, 58, 4865-4881.	1.7	3
1147	Polymeric Membranes for Water Treatment. <i>Materials Horizons</i> , 2023, , 1-21.	0.3	0
1148	Design and Modification of Janus Polyvinylidene Fluoride/Deacetylated Cellulose Acetate Nanofiber Membrane and its Multifunctionality. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	6

#	ARTICLE	IF	CITATIONS
1149	Investigation on the electrical and magnetic properties of PVDF/SrFe12O19 composite membranes. <i>Journal of Magnetism and Magnetic Materials</i> , 2023, 572, 170601.	1.0	0
1150	Hybrid Fluoro-Based Polymers/Graphite Foil for H2/Natural Gas Separation. <i>Materials</i> , 2023, 16, 2105.	1.3	3
1151	Exploration of advanced cellulosic material for membrane filtration with outstanding antifouling property. <i>RSC Advances</i> , 2023, 13, 7490-7502.	1.7	0
1152	Strategies for improving positive temperature effects in conductive polymer composites " a review. <i>Journal of Materials Chemistry C</i> , 2023, 11, 4966-4992.	2.7	3
1153	Nanoparticle-Enhanced PVDF Flat-Sheet Membranes for Seawater Desalination in Direct Contact Membrane Distillation. <i>Membranes</i> , 2023, 13, 317.	1.4	6
1154	Fabrication of Laminated Micro/Nano Filter and Its Application for Inhalable PM Removal. <i>Polymers</i> , 2023, 15, 1459.	2.0	3
1155	Functionalized electrospun biobased polymeric materials in filtration. , 2023, , 625-651.		1
1156	Flexible sugarcane juice based ionic polymer membrane. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0
1157	Electrical analysis of PVDF-Gr composite films. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0
1158	Membrane Processes Treatment and Possibility of Agriculture Reuse of Textile Effluents: Study Case in Tunisia. <i>Water (Switzerland)</i> , 2023, 15, 1430.	1.2	1
1159	Inorganic nanoparticles-modified polyvinyl chloride separation membrane and enhanced anti-fouling performance. <i>Surfaces and Interfaces</i> , 2023, 38, 102885.	1.5	3
1160	Fast formation of strong symmetric poly (vinylidene fluoride) membranes via a modified VIPS method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, , 104877.	2.7	0
1161	Novel positively charged PVDF/SPES membranes surface grafted by hyperbranched polyethyleneimine (HBPEI): Fabrication, characterization, antifouling properties, and performance on the removal of cationic E-coat paint. <i>Polymer Testing</i> , 2023, , 108020.	2.3	0
1162	Fabrication and Evaluation of Filtration Membranes from Industrial Polymer Waste. <i>Membranes</i> , 2023, 13, 445.	1.4	1
1163	Functionalized nanofibers for remediation of organic pollutants and catalytic applications. , 2023, , 483-501.		0
1168	Chemical resistance of polyvinyl fluoride and polyvinylidene fluoride. , 2023, , 403-414.		0
1169	Recent Advances and Future Perspectives of PVDF-Based Composite Polymer Electrolytes for Lithium Metal Batteries: A Review. <i>Energy & Fuels</i> , 2023, 37, 7014-7041.	2.5	10
1182	Nanofiltration and ultrafiltration of endocrine-disrupting compounds. , 2023, , 329-339.		0

#	ARTICLE	IF	CITATIONS
1184	Modified PVDF membrane with zeolite as a filler for ultrafiltration membrane. AIP Conference Proceedings, 2023, , .	0.3	0
1188	Lithium-ion battery recycling: a source of per- and polyfluoroalkyl substances (PFAS) to the environment?. Environmental Sciences: Processes and Impacts, 2023, 25, 1015-1030.	1.7	6
1204	Fluoropolymer nanocomposite membranes for gas separation applications. , 2023, , 485-528.		0
1205	Molecular dynamics simulations and theoretical modeling studies of fluoropolymer nanocomposites. , 2023, , 787-807.		0
1206	Fluoropolymer nanocomposite membranes for fuel cell applications. , 2023, , 597-643.		0
1207	From plasma to plasmonics: toward sustainable and clean water production through membranes. Frontiers of Chemical Science and Engineering, 0, , .	2.3	0
1240	Superhydrophobic Membrane for Gas-Liquid Membrane Contactor Applications. , 0, , .		0
1249	Transport Mechanisms in Membranes Used for Desalination Applications. , 0, , .		0
1261	A systematic review of efficient recycling for the cathode materials of spent lithium-ion batteries: process intensification technologies beyond traditional methods. Green Chemistry, 2024, 26, 1170-1193.	4.6	0
1273	A Critical Review of Sustainable Biodegradable Polymeric Reverse Osmosis Membranes. Earth and Environmental Sciences Library, 2024, , 175-194.	0.3	0
1287	Polymer membrane-based systems. , 2024, , 47-63.		0