Vahid Vatanpour

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#	Paper	IF	Citations
209	Preparation of a novel antifouling mixed matrix PES membrane by embedding graphene oxide nanoplates. <i>Journal of Membrane Science</i> , 2014 , 453, 292-301	9.6	663
208	Fabrication and characterization of novel antifouling nanofiltration membrane prepared from oxidized multiwalled carbon nanotube/polyethersulfone nanocomposite. <i>Journal of Membrane Science</i> , 2011 , 375, 284-294	9.6	614
207	Novel antibifouling nanofiltration polyethersulfone membrane fabricated from embedding TiO2 coated multiwalled carbon nanotubes. <i>Separation and Purification Technology</i> , 2012 , 90, 69-82	8.3	361
206	TiO2 embedded mixed matrix PES nanocomposite membranes: Influence of different sizes and types of nanoparticles on antifouling and performance. <i>Desalination</i> , 2012 , 292, 19-29	10.3	356
205	Thin film nanocomposite reverse osmosis membrane modified by reduced graphene oxide/TiO 2 with improved desalination performance. <i>Journal of Membrane Science</i> , 2015 , 489, 43-54	9.6	309
204	Boehmite nanoparticles as a new nanofiller for preparation of antifouling mixed matrix membranes. <i>Journal of Membrane Science</i> , 2012 , 401-402, 132-143	9.6	283
203	Decolorization of C.I. Acid Blue 9 solution by UV/Nano-TiO(2), Fenton, Fenton-like, electro-Fenton and electrocoagulation processes: a comparative study. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1225	5-33 ⁸	248
202	High-performance pure and Fe3+-ion doped ZnS quantum dots as green nanophotocatalysts for the removal of malachite green under UV-light irradiation. <i>Journal of Hazardous Materials</i> , 2013 , 250-251, 370-8	12.8	246
201	Preparation and characterization of graphene oxide/TiO2 blended PES nanofiltration membrane with improved antifouling and separation performance. <i>Desalination</i> , 2016 , 393, 65-78	10.3	234
200	Fouling reduction and retention increment of polyethersulfone nanofiltration membranes embedded by amine-functionalized multi-walled carbon nanotubes. <i>Journal of Membrane Science</i> , 2014 , 466, 70-81	9.6	210
199	Novel high flux antifouling nanofiltration membranes for dye removal containing carboxymethyl chitosan coated Fe3O4 nanoparticles. <i>Desalination</i> , 2014 , 349, 145-154	10.3	202
198	A new approach to improve antifouling property of PVDF membrane using in situ polymerization of PAA functionalized TiO2 nanoparticles. <i>Journal of Membrane Science</i> , 2011 , 380, 155-162	9.6	201
197	Preparation of a Novel Polyvinylidene Fluoride (PVDF) Ultrafiltration Membrane Modified with Reduced Graphene Oxide/Titanium Dioxide (TiO2) Nanocomposite with Enhanced Hydrophilicity and Antifouling Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13370-13382	3.9	189
196	Novel chitosan/poly(vinyl) alcohol thin adsorptive membranes modified with amino functionalized multi-walled carbon nanotubes for Cu(II) removal from water: Preparation, characterization, adsorption kinetics and thermodynamics. <i>Separation and Purification Technology</i> , 2012 , 89, 309-319	8.3	161
195	Preparation of antibiofouling polyethersulfone mixed matrix NF membrane using photocatalytic activity of ZnO/MWCNTs nanocomposite. <i>Journal of Membrane Science</i> , 2017 , 529, 133-141	9.6	152
194	Electro-Fenton treatment of dye solution containing Orange II: Influence of operational parameters. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 615, 165-174	4.1	151
193	Improvement in flux and antifouling properties of PVC ultrafiltration membranes by incorporation of zinc oxide (ZnO) nanoparticles. <i>Separation and Purification Technology</i> , 2015 , 156, 299-310	8.3	148

192	Effect of reduced graphene oxide/TiO2 nanocomposite with different molar ratios on the performance of PVDF ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2015 , 140, 32	2-4 ⁸ ·3	142	
191	Development of a novel high flux and fouling-resistant thin film composite nanofiltration membrane by embedding reduced graphene oxide/TiO2. <i>Separation and Purification Technology</i> , 2015 , 154, 96-107	8.3	138	
190	Preparation and characterization of emulsion poly(vinyl chloride) (EPVC)/TiO2 nanocomposite ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2014 , 472, 185-193	9.6	134	
189	Improvement in desalination performance of thin film nanocomposite nanofiltration membrane using amine-functionalized multiwalled carbon nanotube. <i>Desalination</i> , 2016 , 394, 83-90	10.3	134	
188	A review on the applications of ultrasonic technology in membrane bioreactors. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104633	8.9	130	
187	Preparation and characterization of a novel polyethersulfone (PES) ultrafiltration membrane modified with a CuO/ZnO nanocomposite to improve permeability and antifouling properties. <i>Separation and Purification Technology</i> , 2018 , 192, 369-382	8.3	108	
186	Preparation of superhydrophobic nanofiltration membrane by embedding multiwalled carbon nanotube and polydimethylsiloxane in pores of microfiltration membrane. <i>Separation and Purification Technology</i> , 2013 , 111, 98-107	8.3	102	
185	Influence of ion interaction on lead removal by a polyamide nanofiltration membrane. <i>Desalination</i> , 2015 , 362, 84-92	10.3	98	
184	Fabrication and characterization of anti-fouling and anti-bacterial Ag-loaded graphene oxide/polyethersulfone mixed matrix membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 30, 342-352	6.3	93	
183	Development of ion imprinted technique for designing nickel ion selective membrane. <i>Journal of Membrane Science</i> , 2011 , 373, 36-42	9.6	91	
182	A thin film nanocomposite reverse osmosis membrane containing amine-functionalized carbon nanotubes. <i>Separation and Purification Technology</i> , 2017 , 184, 135-143	8.3	88	
181	Static and dynamic adsorption of copper ions on chitosan/polyvinyl alcohol thin adsorptive membranes: Combined effect of polyethylene glycol and aminated multi-walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2013 , 215-216, 791-801	14.7	88	
180	Development of hydrophilic microporous PES ultrafiltration membrane containing CuO nanoparticles with improved antifouling and separation performance. <i>Materials Chemistry and Physics</i> , 2019 , 222, 338-350	4.4	82	
179	Investigation of raw and oxidized multiwalled carbon nanotubes in fabrication of reverse osmosis polyamide membranes for improvement in desalination and antifouling properties. <i>Desalination</i> , 2017 , 410, 1-9	10.3	81	
178	Preparation and characterization of antifouling graphene oxide/polyethersulfone ultrafiltration membrane: Application in MBR for dairy wastewater treatment. <i>Journal of Water Process Engineering</i> , 2015 , 7, 280-294	6.7	81	
177	A comprehensive study on the performance and antifouling enhancement of the PVDF mixed matrix membranes by embedding different nanoparticulates: Clay, functionalized carbon nanotube, SiO2 and TiO2. Separation and Purification Technology, 2018, 197, 372-381	8.3	79	
176	Surface modification of commercial seawater reverse osmosis membranes by grafting of hydrophilic monomer blended with carboxylated multiwalled carbon nanotubes. <i>Applied Surface Science</i> , 2017 , 396, 1478-1489	6.7	78	
175	Fabrication and modification of polysulfone nanofiltration membrane using organic acids: Morphology, characterization and performance in removal of xenobiotics. <i>Separation and Purification Technology</i> , 2012 , 96, 214-228	8.3	71	

174	High power generation and COD removal in a microbial fuel cell operated by a novel sulfonated PES/PES blend proton exchange membrane. <i>Energy</i> , 2017 , 125, 427-438	7.9	67
173	Fabrication of cellulose acetate/sodium dodecyl sulfate nanofiltration membrane: Characterization and performance in rejection of pesticides. <i>Desalination</i> , 2012 , 290, 99-106	10.3	67
172	Coke removal from petrochemical oily wastewater using EAl2O3 based ceramic microfiltration membrane. <i>Desalination</i> , 2012 , 293, 87-93	10.3	64
171	Magnetic field-augmented coagulation bath during phase inversion for preparation of ZnFe2O4/SiO2/PES nanofiltration membrane: A novel method for flux enhancement and fouling resistance. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 46, 9-18	6.3	64
170	High flux and fouling resistant reverse osmosis membrane modified with plasma treated natural zeolite. <i>Desalination</i> , 2017 , 411, 89-100	10.3	62
169	Development of carbon dot-modified polyethersulfone membranes for enhancement of nanofiltration, permeation and antifouling performance. <i>Separation and Purification Technology</i> , 2020 , 230, 115895	8.3	62
168	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	5.3	57
167	A novel antibacterial mixed matrixed PES membrane fabricated from embedding aminated Ag3PO4/g-C3N4 nanocomposite for use in the membrane bioreactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 70, 412-426	6.3	57
166	Convective flow adsorption of nickel ions in PVDF membrane embedded with multi-walled carbon nanotubes and PAA coating. <i>Separation and Purification Technology</i> , 2011 , 80, 155-162	8.3	56
165	Development of a novel high-flux PVDF-based ultrafiltration membrane by embedding Mg-Al nanolayered double hydroxide. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 41, 23-32	6.3	53
164	A new high performance polyamide as an effective additive for modification of antifouling properties and morphology of asymmetric PES blend ultrafiltration membranes. <i>Microporous and Mesoporous Materials</i> , 2017 , 246, 24-36	5.3	52
163	Contra-diffusion synthesis of ZIF-8 layer on polyvinylidene fluoride ultrafiltration membranes for improved water purification. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 73, 95-105	6.3	51
162	The effect of amine functionalization of CuO and ZnO nanoparticles used as additives on the morphology and the permeation properties of polyethersulfone ultrafiltration nanocomposite membranes. <i>Composites Part B: Engineering</i> , 2018 , 154, 388-409	10	50
161	Photoreduction of carbon dioxide in the presence of H2, H2O and CH4 over TiO2 and ZnO photocatalysts. <i>Solar Energy</i> , 2013 , 97, 186-194	6.8	48
160	Hydrophilic goethite nanoparticle as a novel antifouling agent in fabrication of nanocomposite polyethersulfone membrane. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	48
159	Hydrogel membranes: A review. <i>Materials Science and Engineering C</i> , 2020 , 114, 111023	8.3	47
158	Surface modification of PES membrane via aminolysis and immobilization of carboxymethylcellulose and sulphated carboxymethylcellulose for hemodialysis. <i>Carbohydrate Polymers</i> , 2018 , 188, 37-47	10.3	47
157	Preparation and characterization of nanocomposite PVDF ultrafiltration membrane embedded with nanoporous SAPO-34 to improve permeability and antifouling performance. Separation and Purification Technology 2016, 163, 300-309	8.3	47

156	High-flux PVDF mixed matrix membranes embedded with size-controlled ZIF-8 nanoparticles. <i>Separation and Purification Technology</i> , 2019 , 229, 115838	8.3	46
155	Development of MoS2/O-MWCNTs/PES blended membrane for efficient removal of dyes, antibiotic, and protein. <i>Separation and Purification Technology</i> , 2022 , 280, 119822	8.3	46
154	Investigation of antifouling performance a novel nanofibrous S-PVDF/PVDF and S-PVDF/PVDF/GO membranes against negatively charged oily foulants. <i>Journal of Membrane Science</i> , 2017 , 536, 86-97	9.6	45
153	Fabrication and characterization of a high-flux and antifouling polyethersulfone membrane for dye removal by embedding Fe3O4-MDA nanoparticles. <i>Chemical Engineering Research and Design</i> , 2019 , 145, 64-75	5.5	45
152	Antifouling polyvinylidene fluoride ultrafiltration membrane fabricated from embedding polypyrrole coated multiwalled carbon nanotubes. <i>Materials Science and Engineering C</i> , 2018 , 89, 41-51	8.3	45
151	Preparation of a novel polyvinyl chloride (PVC) ultrafiltration membrane modified with Ag/TiO2 nanoparticle with enhanced hydrophilicity and antibacterial activities. <i>Separation and Purification Technology</i> , 2020 , 237, 116374	8.3	44
150	Photocatalytic-membrane technology: a critical review for membrane fouling mitigation. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 93, 101-116	6.3	43
149	Synthesis and characterization of novel g-C3N4 modified thin film nanocomposite reverse osmosis membranes to enhance desalination performance and fouling resistance. <i>Separation and Purification Technology</i> , 2019 , 215, 430-440	8.3	42
148	Fouling reduction of emulsion polyvinylchloride ultrafiltration membranes blended by PEG: the effect of additive concentration and coagulation bath temperature. <i>Desalination and Water Treatment</i> , 2016 , 57, 11931-11944		41
147	Central composite design optimization of Rhodamine B degradation using TiO 2 nanoparticles/UV/PVDF process in continuous submerged membrane photoreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 116, 68-75	3.7	40
146	Improvement of polyvinyl chloride nanofiltration membranes by incorporation of multiwalled carbon nanotubes modified with triethylenetetramine to use in treatment of dye wastewater. Journal of Environmental Management, 2019 , 242, 90-97	7.9	40
145	Fabrication and water desalination performance of piperazinepolyamide nanocomposite nanofiltration membranes embedded with raw and oxidized MWCNTs. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 75, 189-198	5.3	39
144	Nanofiltration of dye solution using chitosan/poly(vinyl alcohol)/ZIF-8 thin film composite adsorptive membranes with PVDF membrane beneath as support. <i>Carbohydrate Polymers</i> , 2020 , 247, 116693	10.3	39
143	Effect of coating method on gas separation by PDMS/PES membrane. <i>Polymer Engineering and Science</i> , 2013 , 53, 1878-1885	2.3	38
142	Effect of titanium dioxide nanoparticles on polydimethylsiloxane/polyethersulfone composite membranes for gas separation. <i>Polymer Engineering and Science</i> , 2012 , 52, 2664-2674	2.3	36
141	Fabrication and characterization of a novel polyvinyl alcohol-graphene oxide-sodium alginate nanocomposite hydrogel blended PES nanofiltration membrane for improved water purification. <i>Separation and Purification Technology</i> , 2020 , 250, 117216	8.3	35
140	Fabrication of thin-film nanocomposite nanofiltration membranes incorporated with aromatic amine-functionalized multiwalled carbon nanotubes. Rejection performance of inorganic pollutants from groundwater with improved acid and chlorine resistance. <i>Chemical Engineering Journal</i> , 2020 ,	14.7	34
139	384, 123348 Novel functionalized graphitic carbon nitride incorporated thin film nanocomposite membranes for high-performance reverse osmosis desalination. Separation and Purification Technology, 2020, 235, 1161	34	34

138	Chitosan/polyvinyl alcohol thin membrane adsorbents modified with zeolitic imidazolate framework (ZIF-8) nanostructures: Batch adsorption and optimization. <i>Separation and Purification Technology</i> , 2020 , 241, 116759	8.3	33
137	Improving the chlorine resistance property of polyamide TFC RO membrane by polyethylene glycol diacrylate (PEGDA) coating. <i>Desalination</i> , 2018 , 443, 245-255	10.3	33
136	Preparation and characterization of a novel high-flux emulsion polyvinyl chloride (EPVC) ultrafiltration membrane incorporated with boehmite nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 144-156	6.3	33
135	Novel chitosan/polyvinyl alcohol thin membrane adsorbents modified with detonation nanodiamonds: Preparation, characterization, and adsorption performance. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 1731-1740	5.9	32
134	Effect of blending polypyrrole coated multiwalled carbon nanotube on desalination performance and antifouling property of thin film nanocomposite nanofiltration membranes. <i>Separation and Purification Technology</i> , 2017 , 184, 119-127	8.3	31
133	NaA zeolite-coated meshes with tunable hydrophilicity for oil-water separation. <i>Separation and Purification Technology</i> , 2020 , 240, 116630	8.3	31
132	A review on treatment of membrane concentrates generated from landfill leachate treatment processes. <i>Separation and Purification Technology</i> , 2021 , 259, 118182	8.3	31
131	Effect of solvent type on the physicochemical properties and performance of NLDH/PVDF nanocomposite ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2017 , 184, 97-118	8.3	30
130	Systematic comparison of sono-synthesized Ce-, La- and Ho-doped ZnO nanoparticles and using the optimum catalyst in a visible light assisted continuous sono-photocatalytic membrane reactor. <i>Ultrasonics Sonochemistry</i> , 2019 , 56, 361-371	8.9	30
129	Development of mixed matrix ZIF-8/polyvinylidene fluoride membrane with improved performance in solvent resistant nanofiltration. <i>Separation and Purification Technology</i> , 2020 , 237, 116358	8.3	30
128	Simulation and characterization of novel reverse osmosis membrane prepared by blending polypyrrole coated multiwalled carbon nanotubes for brackish water desalination and antifouling properties using artificial neural networks. <i>Journal of Membrane Science</i> , 2019 , 581, 123-138	9.6	29
127	Modification of polyethersulfone ultrafiltration membrane using ultrasonic-assisted functionalized MoS2 for treatment of oil refinery wastewater. <i>Separation and Purification Technology</i> , 2020 , 238, 1164	9 ^{8.3}	29
126	Effect of different additives on the physicochemical properties and performance of NLDH/PVDF nanocomposite membrane. <i>Separation and Purification Technology</i> , 2019 , 209, 921-935	8.3	29
125	High temperature membranes based on PBI/sulfonated polyimide and doped-perovskite nanoparticles for PEM fuel cells. <i>Journal of Membrane Science</i> , 2020 , 612, 118436	9.6	28
124	Thermodynamic investigation and mathematical modeling of ion-imprinted membrane adsorption. Journal of Membrane Science, 2012 , 389, 334-342	9.6	28
123	High refractive index and low-birefringence polyamides containing thiazole and naphthalene units. <i>RSC Advances</i> , 2015 , 5, 91670-91682	3.7	27
122	Preparation of novel carboxylated thin-film composite polyamide-polyester nanofiltration membranes with enhanced antifouling property and water flux. <i>Reactive and Functional Polymers</i> , 2018 , 131, 123-133	4.6	27
121	Separation of nitrogen and oxygen gases by polymeric membrane embedded with magnetic nano-particle. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 2556-2563	3.2	27

120	Efficient removal of dyes and proteins by nitrogen-doped porous graphene blended polyethersulfone nanocomposite membranes. <i>Chemosphere</i> , 2021 , 263, 127892	8.4	27
119	Box-Behnken design as a systematic approach to inspect correlation between synthesis conditions and desalination performance of TFC RO membranes. <i>Desalination</i> , 2017 , 420, 1-11	10.3	26
118	Comparing the effect of incorporation of various nanoparticulate on the performance and antifouling properties of polyethersulfone nanocomposite membranes. <i>Journal of Water Process Engineering</i> , 2019 , 27, 47-57	6.7	26
117	Fabrication of high-performance antibiofouling ultrafiltration membranes with potential application in membrane bioreactors (MBRs) comprising polyethersulfone (PES) and polycitrate-Alumoxane (PC-A). <i>Separation and Purification Technology</i> , 2019 , 211, 618-627	8.3	26
116	Ethaline deep eutectic solvent as a hydrophilic additive in modification of polyethersulfone membrane for antifouling and separation improvement. <i>Journal of Membrane Science</i> , 2020 , 614, 11852	8 .6	25
115	Effect of modified multi-walled carbon nanotubes on release characteristics of indomethacin from symmetric membrane coated tablets. <i>Journal of Membrane Science</i> , 2012 , 389, 110-116	9.6	24
114	Energy recovery and hygienic water production from wastewater using an innovative integrated microbial fuel cellmembrane separation process. <i>Energy</i> , 2017 , 141, 1350-1362	7.9	24
113	Surface modification of polyvinylidene fluoride membranes with ZIF-8 nanoparticles layer using interfacial method for BSA separation and dye removal. <i>Materials Chemistry and Physics</i> , 2020 , 241, 122-	4 00	24
112	Fabrication of a new emulsion polyvinyl chloride (EPVC) nanocomposite ultrafiltration membrane modified by para-hydroxybenzoate alumoxane (PHBA) additive to improve permeability and antifouling performance. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 8-20	5.5	24
111	Enhancing the permeability and antifouling properties of cellulose acetate ultrafiltration membrane by incorporation of ZnO@graphitic carbon nitride nanocomposite. <i>Carbohydrate Polymers</i> , 2021 , 256, 117413	10.3	24
110	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	3.9	23
109	Continuous flow photoelectrocatalysis/reverse osmosis hybrid reactor for degradation of a pesticide using nano N-TiO2/Ag/Ti electrode under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 384, 112068	4.7	23
108	Comparison of NLDH and g-C3N4 nanoplates and formative Ag3PO4 nanoparticles in PES microfiltration membrane fouling: Applications in MBR. <i>Chemical Engineering Research and Design</i> , 2019 , 147, 443-457	5.5	23
107	Surface modification of reverse osmosis membranes by grafting of polyamidoamine dendrimer containing graphene oxide nanosheets for desalination improvement. <i>Desalination</i> , 2020 , 491, 114442	10.3	23
106	Anti-fouling and permeable polyvinyl chloride nanofiltration membranes embedded by hydrophilic graphene quantum dots for dye wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101652	6.7	23
105	Synergistic effect of carboxylated-MWCNTs on the performance of acrylic acid UV-grafted polyamide nanofiltration membranes. <i>Reactive and Functional Polymers</i> , 2019 , 134, 74-84	4.6	23
104	Preparation and performance evaluation of carboxylic acid containing polyamide incorporated microporous ultrafiltration PES membranes. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 407-416	3.2	23
103	Deep eutectic solvents in membrane science and technology: Fundamental, preparation, application, and future perspective. <i>Separation and Purification Technology</i> , 2021 , 258, 118015	8.3	23

102	Removal of Coke Particles from Oil Contaminated Marun Petrochemical Wastewater Using PVDF Microfiltration Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11712-11719	3.9	22
101	Recovery of cooling tower blowdown water for reuse: The investigation of different types of pretreatment prior nanofiltration and reverse osmosis. <i>Journal of Water Process Engineering</i> , 2016 , 10, 188-199	6.7	22
100	Quantum dots for photocatalysis: synthesis and environmental applications. <i>Green Chemistry</i> , 2021 , 23, 4931-4954	10	22
99	Chitin and derivative chitosan-based structures - Preparation strategies aided by deep eutectic solvents: A review. <i>Carbohydrate Polymers</i> , 2022 , 275, 118702	10.3	21
98	Study of synergetic effect and comparison of novel sulfonated and carboxylated bulky diamine-diol and piperazine in preparation of negative charge NF membrane. <i>Separation and Purification Technology</i> , 2019 , 222, 284-296	8.3	20
97	Modeling and simulation of CO2 removal in a polyvinylidene fluoride hollow fiber membrane contactor with computational fluid dynamics. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 98, 41-51	3.7	19
96	Development of an antibacterial and visible photocatalytic nanocomposite microfiltration membrane incorporated by Ag3PO4/CuZnAl NLDH. <i>Separation and Purification Technology</i> , 2019 , 226, 218-231	8.3	18
95	Antibacterial and antifouling properties of Ag3PO4/GO nanocomposite blended polyethersulfone membrane applied in dye separation. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101638	6.7	18
94	Fouling decline and retention increase of polyethersulfone membrane by incorporating melamine-based dendrimer amine functionalized graphene oxide nanosheets (GO/MDA). <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104849	6.8	18
93	Fouling decline and retention increase of polyvinyl chloride nanofiltration membranes blended by polypyrrole functionalized multiwalled carbon nanotubes. <i>Materials Today Communications</i> , 2020 , 23, 100851	2.5	17
92	Tuning thin-film composite reverse osmosis membranes using deep eutectic solvents and ionic liquids toward enhanced water permeation. <i>Journal of Membrane Science</i> , 2020 , 610, 118267	9.6	16
91	Novel antifouling and antibacterial polyethersulfone membrane prepared by embedding nitrogen-doped carbon dots for efficient salt and dye rejection. <i>Materials Science and Engineering C</i> , 2020 , 111, 110787	8.3	16
90	Effect of surface properties of polysulfone support on the performance of thin film composite polyamide reverse osmosis membranes. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	16
89	Anti-fouling polyethersulfone nanofiltration membranes aided by amine-functionalized boron nitride nanosheets with improved separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104454	6.8	16
88	A novel antifouling ultrafiltration membranes prepared from percarboxylic acid functionalized SiO2 bound Fe3O4 nanoparticle (SCMNP-COOOH)/polyethersulfone nanocomposite for BSA separation and dye removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1341-1353	3.5	16
87	Comparative study of different systems for adsorption and catalytic oxidation of hexamine in industrial wastewaters. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 37-45	6.3	15
86	Synergistic effect of silica nanoparticles in the matrix of a poly(ethylene glycol) diacrylate coating layer for the surface modification of polyamide nanofiltration membranes. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	15
85	Improved visible photocatalytic activity of TiO2 nanoparticles to use in submerged membrane photoreactor for organic pollutant degradation. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 2405-2414	3.3	15

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84	coupling visible light sono-photocatalysis and sono-enhanced ultrafiltration processes for continuous flow degradation of dyestuff using N-doped titania nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 143, 107631	3.7	14	
83	An Investigation on Gas Transport Properties of Cross-Linked Poly(ethylene glycol diacrylate) (XLPEGDA) and XLPEGDA/TiO2 Membranes with a Focus on CO2 Separation. <i>Energy & amp; Fuels</i> , 2018 , 32, 5418-5432	4.1	14	
82	Synthesis and characterization of soluble aromatic polyamides containing double sulfide bond and thiazole ring. <i>Polymer Bulletin</i> , 2019 , 76, 1547-1556	2.4	14	
81	Improving the permeability and antifouling property of PES ultrafiltration membranes using the drying method and incorporating the CuO-ZnO nanocomposite. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100891	6.7	14	
80	The effect of different solvents on the morphology and performance of the ZIF-8 modified PVDF ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2020 , 253, 117548	8.3	14	
79	Hydrogen peroxide treated g-CN as an effective hydrophilic nanosheet for modification of polyethersulfone membranes with enhanced permeability and antifouling characteristics. <i>Chemosphere</i> , 2021 , 279, 130616	8.4	13	
78	Novel polyimides based on diamine containing thiazole units with thioether linkage and pyridine as pendent group: Synthesis and characterization. <i>High Performance Polymers</i> , 2018 , 30, 840-846	1.6	12	
77	Polysaccharides in fabrication of membranes: A review <i>Carbohydrate Polymers</i> , 2022 , 281, 119041	10.3	12	
76	Preparation, characterization and performance evaluation of ZnO deposited polyethylene ultrafiltration membranes for dye and protein separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 114, 153-167	5.3	12	
75	Effect of detonation nanodiamond on the properties and performance of polyethersulfone nanocomposite membrane. <i>Diamond and Related Materials</i> , 2018 , 90, 244-255	3.5	12	
74	Effects of phase inversion and composition of casting solution on morphology and gas permeance of polyethersulfone/polyimide blend membranes. <i>Advances in Polymer Technology</i> , 2012 , 31, 298-309	1.9	11	
73	Cellulose acetate in fabrication of polymeric membranes: A review <i>Chemosphere</i> , 2022 , 295, 133914	8.4	11	
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LIST OF PUBLICATIONS

12	Novel infinite coordination polymer (ICP) modified thin-film polyamide nanocomposite membranes for simultaneous enhancement of antifouling and chlorine-resistance performance. <i>Journal of Membrane Science</i> , 2022 , 647, 120305	9.6	1
11	MoS/N-TiO/Ti mesh plate for visible-light photocatalytic ozonation of naproxen and industrial wastewater: comparative studies and artificial neural network modeling. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
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6	Polyethylene separator supported thin-film composite forward osmosis membranes for concentrating lithium enriched brine <i>Water Research</i> , 2022 , 216, 118297	12.5	О
5	Electrospraying technique in fabrication of separation membranes: A review. <i>Desalination</i> , 2022 , 533, 115765	10.3	0
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