

Vahid Vatanpour

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209
papers

10,060
citations

48
h-index

95
g-index

216
ext. papers

12,531
ext. citations

6.8
avg, IF

7.21
L-index

#	Paper	IF	Citations
209	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
208	Impact of a new functionalization of multiwalled carbon nanotubes on antifouling and permeability of PVDF nanocomposite membranes for dye wastewater treatment.. <i>Chemosphere</i> , 2022 , 133699	8.4	7
207	Different metal-doped ZnS quantum dots photocatalysts for enhancing the permeability and antifouling performances of polysulfone membranes with and without UV irradiation.. <i>Chemosphere</i> , 2022 , 294, 133705	8.4	3
206	Cellulose acetate in fabrication of polymeric membranes: A review.. <i>Chemosphere</i> , 2022 , 295, 133914	8.4	11
205	Investigation of boron nitride/silver/graphene oxide nanocomposite on separation and antibacterial improvement of polyethersulfone membranes in wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107035	6.8	5
204	Impact of dithiocarbamate-based polymeric additives on the performance of polyethersulfone membrane for the treatment of arsenic contaminated waters. <i>Chemical Engineering Research and Design</i> , 2022 , 158, 589-606	5.5	2
203	A review on dendrimers in preparation and modification of membranes: progress, applications, and challenges. <i>Materials Today Chemistry</i> , 2022 , 23, 100683	6.2	4
202	TiO ₂ /CDs modified thin-film nanocomposite polyamide membrane for simultaneous enhancement of antifouling and chlorine-resistance performance. <i>Desalination</i> , 2022 , 525, 115506	10.3	5
201	Fabrication and performance of polysulfone/H ₂ O ₂ -g-C ₃ N ₄ mixed matrix membrane in a photocatalytic membrane reactor under visible light irradiation for removal of natural organic matter. <i>Separation and Purification Technology</i> , 2022 , 285, 120291	8.3	5
200	Polysaccharides in fabrication of membranes: A review.. <i>Carbohydrate Polymers</i> , 2022 , 281, 119041	10.3	12
199	Investigation of using UV/H ₂ O ₂ pre-treatment process on filterability and fouling reduction of PVDF/TiO ₂ nanocomposite ultrafiltration membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 170, 108677	3.7	1
198	Development of MoS ₂ /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
197	Improving antifouling property of alumina microfiltration membranes by using atomic layer deposition technique for produced water treatment. <i>Desalination</i> , 2022 , 523, 115400	10.3	3
196	A melamine-based covalent organic framework nanomaterial as a nanofiller in polyethersulfone mixed matrix membranes to improve separation and antifouling performance. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51428	2.9	8
195	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
194	Polybenzoxazines in fabrication of separation membranes: A review. <i>Separation and Purification Technology</i> , 2022 , 278, 119562	8.3	2
193	High-performance functionalized graphene oxide reinforced hyperbranched polymer nanocomposites for catalytic hydrolysis of a chiral ester in water. <i>Reactive and Functional Polymers</i> , 2022 , 173, 105218	4.6	1

192	Recent trends in application of nanoscale zero-valent metals and metal single atoms in membrane processes. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107457	6.8	3
191	Polyethylene separator supported thin-film composite forward osmosis membranes for concentrating lithium enriched brine.. <i>Water Research</i> , 2022 , 216, 118297	12.5	0
190	Boron carbon nitride nanosheets in water and wastewater treatment: A critical review. <i>Desalination</i> , 2022 , 533, 115782	10.3	1
189	Electrospraying technique in fabrication of separation membranes: A review. <i>Desalination</i> , 2022 , 533, 115765	10.3	0
188	Nanomaterials in membrane bioreactors: Recent progresses, challenges, and potentials.. <i>Chemosphere</i> , 2022 , 302, 134930	8.4	0
187	Surface modification of commercial reverse osmosis membranes using both hydrophilic polymer and graphene oxide to improve desalination efficiency.. <i>Chemosphere</i> , 2022 , 302, 134931	8.4	0
186	Modification of PVDF membranes by incorporation Fe ₃ O ₄ @Xanthan gum to improve anti-fouling, anti-bacterial, and separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107784	6.8	0
185	Removal of antibiotics from wastewaters by membrane technology: Limitations, successes, and future improvements. <i>Science of the Total Environment</i> , 2022 , 156010	10.2	3
184	MoS ₂ /N-TiO ₂ /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
183	Biocatalytic membranes in anti-fouling and emerging pollutant degradation applications: Current state and perspectives. <i>Separation and Purification Technology</i> , 2021 , 282, 120098	8.3	2
182	Hyperbranched polyethylenimine functionalized silica/polysulfone nanocomposite membranes for water purification.. <i>Chemosphere</i> , 2021 , 290, 133363	8.4	10
181	Highly antifouling polymer-nanoparticle-nanoparticle/polymer hybrid membranes. <i>Science of the Total Environment</i> , 2021 , 810, 152228	10.2	6
180	Performance improvement of PES membrane decorated by Mil-125(Ti)/chitosan nanocomposite for removal of organic pollutants and heavy metal.. <i>Chemosphere</i> , 2021 , 290, 133335	8.4	2
179	Peroxopolyoxometalate nanoparticles blended PES membrane with improved hydrophilicity, anti-fouling, permeability, and dye separation properties. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50764	2.9	2
178	Influence of solvent type on the ability and properties of the boehmite nanoparticles embedded emulsion polyvinyl chloride nanocomposite ultrafiltration membranes. <i>Iranian Polymer Journal (English Edition)</i> , 2021 , 30, 707-721	2.3	3
177	Ball-milled Cu ₂ S nanoparticles as an efficient additive for modification of the PVDF ultrafiltration membranes: Application to separation of protein and dyes. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105115	6.8	4
176	Improvement of dye and protein filtration efficiency using modified PES membrane with 2-mercaptoethanol capped zinc sulfide quantum dots. <i>Chemical Engineering Research and Design</i> , 2021 , 168, 109-121	5.5	9
175	Efficient removal of dyes and proteins by nitrogen-doped porous graphene blended polyethersulfone nanocomposite membranes. <i>Chemosphere</i> , 2021 , 263, 127892	8.4	27

174	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
173	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
172	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
171	Multivariate data-based optimization of membrane adsorption process for wastewater treatment: Multi-layer perceptron adaptive neural network versus adaptive neural fuzzy inference system. <i>Chemosphere</i> , 2021 , 267, 129268	8.4	9
170	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
169	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
168	High performance compatible thiazole-based polymeric blend cellulose acetate membrane as selective CO absorbent and molecular sieve. <i>Carbohydrate Polymers</i> , 2021 , 252, 117215	10.3	5
167	Magnetic nanoparticles in wastewater treatment 2021 , 547-589		0
166	Quantum dots for photocatalysis: synthesis and environmental applications. <i>Green Chemistry</i> , 2021 , 23, 4931-4954	10	22
165	Atomic simulation of adsorption of SO pollutant by metal (Zn, Be)-oxide and Ni-decorated graphene: a first-principles study. <i>Journal of Molecular Modeling</i> , 2021 , 27, 70	2	5
164	Nanostructured polyethersulfone nanocomposite membranes for dual protein and dye separation: Lower antifouling with lanthanum (III) vanadate nanosheets as a novel nanofiller. <i>Polymer Testing</i> , 2021 , 94, 107040	4.5	9
163	Preparation and modification of thin film composite membrane using a bulky dianhydride monomer. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51389	2.9	2
162	New blend nanocomposite membranes based on PBI/sulfonated poly(ether keto imide sulfone) and functionalized quantum dot with improved fuel cell performance at high temperatures. <i>International Journal of Energy Research</i> , 2021 , 45, 21274	4.5	3
161	Modification of EPVC membranes by incorporating tungsten trioxide (WO ₃) nanosheets to improve antifouling and dye separation properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 104, 186-186	6.3	2
160	Application of graphitic carbon nitrides in developing polymeric membranes: A review. <i>Chemical Engineering Research and Design</i> , 2021 , 173, 234-252	5.5	6
159	Fabrication of chitosan-aminopropylsilane graphene oxide nanocomposite hydrogel embedded PES membrane for improved filtration performance and lead separation. <i>Journal of Environmental Management</i> , 2021 , 294, 112918	7.9	11
158	Recent advancements in the application of new monomers and membrane modification techniques for the fabrication of thin film composite membranes: A review. <i>Reactive and Functional Polymers</i> , 2021 , 166, 105015	4.6	8
157	A Comprehensive Review on the Applications of Boron Nitride Nanomaterials in Membrane Fabrication and Modification. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 13391-13424	3.9	5

156	Lead adsorption onto Ni- and Pt-decorated nano Alumina: A first-principles study. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116349	6	3
155	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
154	Evaluation of morphology, performance and fouling tendency of mixed matrix PVDF ultrafiltration membranes incorporated by different size-controlled SAPO-34 nanozeolites. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105900	6.8	4
153	Ethylenediamine-functionalized ZIF-8 for modification of chitosan-based membrane adsorbents: Batch adsorption and molecular dynamic simulation. <i>Chemical Engineering Research and Design</i> , 2021 , 175, 131-145	5.5	7
152	Polyvinyl chloride-based membranes: A review on fabrication techniques, applications and future perspectives. <i>Separation and Purification Technology</i> , 2021 , 279, 119678	8.3	9
151	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
150	Removal of Chromate and Nitrate Ions from Aqueous Solutions by CoxFe ₃ -xO ₄ @silica Hybrid Nanoparticles Decorated with Cross-Linked Tragacanth Gum: Experiment, Modeling and Optimization. <i>ChemistrySelect</i> , 2020 , 5, 5404-5413	1.8	4
149	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
148	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
147	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
146	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
145	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
144	Effect of nanoboehmite/poly(ethylene glycol) on the performance and physiochemical attributes EPVC nano-composite membranes in protein separation. <i>Chemical Engineering Research and Design</i> , 2020 , 156, 371-383	5.5	8
143	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
142	NaA zeolite-coated meshes with tunable hydrophilicity for oil-water separation. <i>Separation and Purification Technology</i> , 2020 , 240, 116630	8.3	31
141	Preparation and characterization of novel nanoporous SBA-16-COOH embedded polysulfone ultrafiltration membrane for protein separation. <i>Chemical Engineering Research and Design</i> , 2020 , 156, 240-250	5.5	7
140	Hydrogel membranes: A review. <i>Materials Science and Engineering C</i> , 2020 , 114, 111023	8.3	47
139	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, 122400	4.4	24

138	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 , 384, 123348	14.7	34
137	Structural manipulation of PES constituents to prepare advanced alternative polymer for ultrafiltration membrane. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48690	2.9	11
136	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
135	Preparation of a novel polyvinyl chloride (PVC) ultrafiltration membrane modified with Ag/TiO ₂ nanoparticle with enhanced hydrophilicity and antibacterial activities. <i>Separation and Purification Technology</i> , 2020 , 237, 116374	8.3	44
134	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
133	Modification of polyethersulfone ultrafiltration membrane using ultrasonic-assisted functionalized MoS ₂ for treatment of oil refinery wastewater. <i>Separation and Purification Technology</i> , 2020 , 238, 116493	8.3	29
132	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
131	A comprehensive investigation of effective parameters in continuous submerged photocatalytic membrane reactors by RSM. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 157, 108144	3.7	8
130	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
129	New Insights into H ₂ S Adsorption on Graphene and Graphene-Like Structures: A Comparative DFT Study. <i>Journal of Carbon Research</i> , 2020 , 6, 74	3.3	4
128	Nanostructured polyethersulfone membranes for dye and protein separation: Exploring antifouling role of holmium (III) molybdate nanosheets. <i>Polymer Testing</i> , 2020 , 91, 106796	4.5	10
127	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, 118528	9.6	25
126	Erbium (III) molybdate as a new nanofiller for fabrication of antifouling polyethersulfone membranes. <i>Materials Today Communications</i> , 2020 , 25, 101379	2.5	7
125	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
124	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
123	Antibacterial and antifouling properties of Ag ₃ PO ₄ /GO nanocomposite blended polyethersulfone membrane applied in dye separation. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101638	6.7	18
122	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
121	Tuning the band gap of the graphene oxide-chloro aluminum phthalocyanine nanocomposite by reducing the rate of graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 115, 113636	3	3

120	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
119	Novel functionalized graphitic carbon nitride incorporated thin film nanocomposite membranes for high-performance reverse osmosis desalination. <i>Separation and Purification Technology</i> , 2020 , 235, 116134	8.3	34
118	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
117	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
116	Continuous flow photoelectrocatalysis/reverse osmosis hybrid reactor for degradation of a pesticide using nano N-TiO ₂ /Ag/Ti electrode under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 384, 112068	4.7	23
115	Efficient thiazole-based polyimines as selective and reversible chemical absorbents for CO ₂ capture and separation: Synthesis, characterization and application. <i>Polymer</i> , 2019 , 182, 121840	3.9	2
114	Synthesis and characterization of novel g-C ₃ N ₄ 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
113	A review on the applications of ultrasonic technology in membrane bioreactors. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104633	8.9	130
112	Wholly Heterocycles-Based PolyamideSulfide Containing Pyridine and Thiazole Rings: A Super-Adsorbent Polymer for Lead Removal. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 1790-1800	4.5	8
111	Development of an antibacterial and visible photocatalytic nanocomposite microfiltration membrane incorporated by Ag ₃ PO ₄ /CuZnAl NLDH. <i>Separation and Purification Technology</i> , 2019 , 226, 218-231	8.3	18
110	Comparison of NLDH and g-C ₃ N ₄ nanoplates and formative Ag ₃ PO ₄ nanoparticles in PES microfiltration membrane fouling: Applications in MBR. <i>Chemical Engineering Research and Design</i> , 2019 , 147, 443-457	5.5	23
109	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
108	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
107	Improvement of polyvinyl chloride nanofiltration membranes by incorporation of multiwalled carbon nanotubes modified with triethylenetetramine to use in treatment of dye wastewater. <i>Journal of Environmental Management</i> , 2019 , 242, 90-97	7.9	40
106	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
105	Fabrication and characterization of a high-flux and antifouling polyethersulfone membrane for dye removal by embedding Fe ₃ O ₄ -MDA nanoparticles. <i>Chemical Engineering Research and Design</i> , 2019 , 145, 64-75	5.5	45
104	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
103	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

102	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
101	Influence of the various pore former additives on the performance and characteristics of the bare and EPVC/boehmite nanocomposite ultrafiltration membranes. <i>Materials Today Communications</i> , 2019 , 21, 100663	2.5	2
100	Poly(itaconic acid)-assisted ultrafiltration of heavy metal ions removal from wastewater. <i>Iranian Polymer Journal (English Edition)</i> , 2019 , 28, 1069-1077	2.3	6
99	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
98	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
97	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
96	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
95	A novel antibacterial mixed matrixed PES membrane fabricated from embedding aminated Ag ₃ PO ₄ /g-C ₃ N ₄ nanocomposite for use in the membrane bioreactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 70, 412-426	6.3	57
94	Polymer/Carbon Nanotubes Mixed Matrix Membranes for Water Purification 2019 , 87-110		6
93	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
92	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
91	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
90	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
89	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. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1341-1353	3.5	16
88	Improved visible photocatalytic activity of TiO ₂ 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
87	Synthesis of a novel sulfonated poly(amide-imide) and its application in preparation of ultrafiltration PES membranes as a modifier. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46477	2.9	7
86	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
85	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	8.3	79

84	An Investigation on Gas Transport Properties of Cross-Linked Poly(ethylene glycol diacrylate) (XLPEGDA) and XLPEGDA/TiO ₂ Membranes with a Focus on CO ₂ Separation. <i>Energy & Fuels</i> , 2018 , 32, 5418-5432	4.1	14
83	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
82	Polymer/clay nanocomposites based on aliphatic/aromatic polyamide containing thiazole ring and new organomodified nanosilicate layers: Synthesis, characterization, and thermal properties study. <i>Polymer Composites</i> , 2018 , 39, E1407-E1420	3	7
81	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
80	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
79	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
78	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
77	Carbon-Based Polymer Nanocomposite Membranes for Desalination 2018 , 281-304		
76	Thin-film nanofiltration membrane with monomers of 1,2,4,5-benzene tetracarbonyl chloride and ethylene diamine on electrospun support: preparation, morphology and chlorine resistance properties. <i>Polymer Bulletin</i> , 2018 , 75, 3407-3425	2.4	5
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	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
73	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
72	High flux and fouling resistant reverse osmosis membrane modified with plasma treated natural zeolite. <i>Desalination</i> , 2017 , 411, 89-100	10.3	62
71	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
70	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
69	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
68	Fabrication and water desalination performance of piperazine/polyamide 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
67	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

66	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
65	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
64	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
63	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
62	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
61	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
60	Energy recovery and hygienic water production from wastewater using an innovative integrated microbial fuel cell membrane separation process. <i>Energy</i> , 2017 , 141, 1350-1362	7.9	24
59	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
58	Magnetic field-augmented coagulation bath during phase inversion for preparation of ZnFe ₂ O ₄ /SiO ₂ /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
57	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
56	Preparation and characterization of graphene oxide/TiO ₂ blended PES nanofiltration membrane with improved antifouling and separation performance. <i>Desalination</i> , 2016 , 393, 65-78	10.3	234
55	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
54	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
53	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
52	Preparation and characterization of nanocomposite PVDF ultrafiltration membrane embedded with nanoporous SAPO-34 to improve permeability and antifouling performance. <i>Separation and Purification Technology</i> , 2016 , 163, 300-309	8.3	47
51	Effect of CO ₂ -laser irradiation on properties and performance of thin-film composite polyamide reverse osmosis membrane. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1028-1036	2.8	8
50	Organic-organic composite membrane preparation and characterization for biorefining 2016 , 85-102		3
49	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

48	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
47	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
46	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
45	Mixed Matrix Membranes for Nanofiltration Application 2016 , 441-476		4
44	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
43	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
42	Development of a novel high flux and fouling-resistant thin film composite nanofiltration membrane by embedding reduced graphene oxide/TiO ₂ . <i>Separation and Purification Technology</i> , 2015 , 154, 96-107	8.3	138
41	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
40	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
39	Modeling and simulation of CO ₂ 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
38	High refractive index and low-birefringence polyamides containing thiazole and naphthalene units. <i>RSC Advances</i> , 2015 , 5, 91670-91682	3.7	27
37	Effect of reduced graphene oxide/TiO ₂ nanocomposite with different molar ratios on the performance of PVDF ultrafiltration membranes. <i>Separation and Purification Technology</i> , 2015 , 140, 32-42	8.3	142
36	Influence of ion interaction on lead removal by a polyamide nanofiltration membrane. <i>Desalination</i> , 2015 , 362, 84-92	10.3	98
35	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
34	Preparation and characterization of emulsion poly(vinyl chloride) (EPVC)/TiO ₂ nanocomposite ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2014 , 472, 185-193	9.6	134
33	Novel high flux antifouling nanofiltration membranes for dye removal containing carboxymethyl chitosan coated Fe ₃ O ₄ nanoparticles. <i>Desalination</i> , 2014 , 349, 145-154	10.3	202
32	Preparation of a Novel Polyvinylidene Fluoride (PVDF) Ultrafiltration Membrane Modified with Reduced Graphene Oxide/Titanium Dioxide (TiO ₂) Nanocomposite with Enhanced Hydrophilicity and Antifouling Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13370-13382	3.9	189
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30	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
29	Photoreduction of carbon dioxide in the presence of H ₂ , H ₂ O and CH ₄ over TiO ₂ and ZnO photocatalysts. <i>Solar Energy</i> , 2013 , 97, 186-194	6.8	48
28	High-performance pure and Fe ³⁺ -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
27	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
26	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
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23	TiO ₂ 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
22	Coke removal from petrochemical oily wastewater using Al ₂ O ₃ based ceramic microfiltration membrane. <i>Desalination</i> , 2012 , 293, 87-93	10.3	64
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19	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
18	Thermodynamic investigation and mathematical modeling of ion-imprinted membrane adsorption. <i>Journal of Membrane Science</i> , 2012 , 389, 334-342	9.6	28
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16	Investigation of parameters affecting the flux of microfiltration poly(vinylidene fluoride) membranes for particulate removal. <i>Advances in Polymer Technology</i> , 2012 , 31, 29-40	1.9	9
15	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
14	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
13	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

12	Preparation and characterization of polyimide and polyethersulfone blend membrane for gas separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, 747-754	1.3	8
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10	Thermodynamically comparison of Na ⁺ and Ca ²⁺ adsorption onto PVD and NF45 membranes. <i>Desalination</i> , 2011 , 281, 312-318	10.3	1
9	A new approach to improve antifouling property of PVDF membrane using in situ polymerization of PAA functionalized TiO ₂ nanoparticles. <i>Journal of Membrane Science</i> , 2011 , 380, 155-162	9.6	201
8	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
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1	Membrane concentrate management for textile wastewater with thermally activated persulfate oxidation method. <i>Water and Environment Journal</i> ,	1.7	5