

Ahmad Fauzi Ismail

List of Publications by Year in descending order

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Version: 2024-02-01

1,083
papers

54,701
citations

1704

104
h-index

3915

177
g-index

1105
all docs

1105
docs citations

1105
times ranked

31614
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of heat treatment on polyacrylonitrile fiber. <i>Polymer Degradation and Stability</i> , 2007, 92, 1421-1432.	5.8	1,139
2	A review of the effects of emerging contaminants in wastewater and options for their removal. <i>Desalination</i> , 2009, 239, 229-246.	8.2	1,017
3	Membrane technology enhancement in oil-water separation. A review. <i>Desalination</i> , 2015, 357, 197-207.	8.2	978
4	A recent progress in thin film composite membrane: A review. <i>Desalination</i> , 2012, 287, 190-199.	8.2	757
5	Performance studies of mixed matrix membranes for gas separation: A review. <i>Separation and Purification Technology</i> , 2010, 75, 229-242.	7.9	733
6	State-of-the-art membrane based CO ₂ separation using mixed matrix membranes (MMMs): An overview on current status and future directions. <i>Progress in Polymer Science</i> , 2014, 39, 817-861.	24.7	717
7	A review on polyamide thin film nanocomposite (TFN) membranes: History, applications, challenges and approaches. <i>Water Research</i> , 2015, 80, 306-324.	11.3	587
8	Behaviours of natural organic matter in membrane filtration for surface water treatment – a review. <i>Desalination</i> , 2006, 194, 211-231.	8.2	583
9	A review on the latest development of carbon membranes for gas separation. <i>Journal of Membrane Science</i> , 2001, 193, 1-18.	8.2	552
10	Recent advances of inorganic fillers in mixed matrix membrane for gas separation. <i>Separation and Purification Technology</i> , 2011, 81, 243-264.	7.9	543
11	Biogas as a renewable energy fuel – A review of biogas upgrading, utilisation and storage. <i>Energy Conversion and Management</i> , 2017, 150, 277-294.	9.2	520
12	Enhanced hydrophilicity and salt rejection study of graphene oxide-polysulfone mixed matrix membrane. <i>Desalination</i> , 2013, 313, 199-207.	8.2	509
13	Fabrication of carbon membranes for gas separation – a review. <i>Carbon</i> , 2004, 42, 241-259.	10.3	498
14	Recent trends of heavy metal removal from water/wastewater by membrane technologies. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 17-38.	5.8	490
15	Recent advances in nanomaterials for water protection and monitoring. <i>Chemical Society Reviews</i> , 2017, 46, 6946-7020.	38.1	441
16	Polymeric nanofiltration membranes for textile dye wastewater treatment: Preparation, performance evaluation, transport modelling, and fouling control – a review. <i>Desalination</i> , 2009, 245, 321-348.	8.2	412
17	A review on RO membrane technology: Developments and challenges. <i>Desalination</i> , 2015, 368, 10-26.	8.2	402
18	A novel thin film composite forward osmosis membrane prepared from PS/TiO ₂ nanocomposite substrate for water desalination. <i>Chemical Engineering Journal</i> , 2014, 237, 70-80.	12.7	387

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19	A review on inorganic membranes for desalination and wastewater treatment. <i>Desalination</i> , 2018, 434, 60-80.	8.2	347
20	Membrane fouling in desalination and its mitigation strategies. <i>Desalination</i> , 2018, 425, 130-155.	8.2	339
21	Transport and separation properties of carbon nanotube-mixed matrix membrane. <i>Separation and Purification Technology</i> , 2009, 70, 12-26.	7.9	331
22	Hollow fiber gas-liquid membrane contactors for acid gas capture: A review. <i>Journal of Hazardous Materials</i> , 2009, 171, 38-53.	12.4	317
23	Penetrant-induced plasticization phenomenon in glassy polymers for gas separation membrane. <i>Separation and Purification Technology</i> , 2002, 27, 173-194.	7.9	295
24	Graphene oxide incorporated thin film nanocomposite nanofiltration membrane for enhanced salt removal performance. <i>Desalination</i> , 2016, 387, 14-24.	8.2	294
25	Post spinning and pyrolysis processes of polyacrylonitrile (PAN)-based carbon fiber and activated carbon fiber: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 93, 1-13.	5.5	289
26	Hydrophilic polymer-based membrane for oily wastewater treatment: A review. <i>Separation and Purification Technology</i> , 2020, 233, 116007.	7.9	279
27	Morphological and separation performance study of polysulfone/titanium dioxide (PSF/TiO ₂) ultrafiltration membranes for humic acid removal. <i>Desalination</i> , 2011, 273, 85-92.	8.2	271
28	Seawater Reverse Osmosis (SWRO) desalination by thin-film composite membrane—Current development, challenges and future prospects. <i>Desalination</i> , 2012, 287, 228-237.	8.2	270
29	Adsorptive removal of heavy metal ions using graphene-based nanomaterials: Toxicity, roles of functional groups and mechanisms. <i>Chemosphere</i> , 2020, 248, 126008.	8.2	261
30	Effect of additives concentration on the surface properties and performance of PVDF ultrafiltration membranes for refinery produced wastewater treatment. <i>Desalination</i> , 2011, 273, 226-234.	8.2	253
31	Mixed matrix membranes of Pebax-1657 loaded with 4A zeolite for gaseous separations. <i>Separation and Purification Technology</i> , 2014, 129, 1-8.	7.9	250
32	Thin film composite membrane — Recent development and future potential. <i>Desalination</i> , 2015, 356, 140-148.	8.2	245
33	Tailor-made thin film nanocomposite membrane incorporated with graphene oxide using novel interfacial polymerization technique for enhanced water separation. <i>Chemical Engineering Journal</i> , 2018, 344, 524-534.	12.7	241
34	Preparation and characterization of electro-spun nanofiber membranes and their possible applications in water treatment. <i>Separation and Purification Technology</i> , 2013, 102, 118-135.	7.9	239
35	Polyethersulfone (PES)—silver composite UF membrane: Effect of silver loading and PVP molecular weight on membrane morphology and antibacterial activity. <i>Desalination</i> , 2011, 273, 72-80.	8.2	236
36	Synthesis and characterization of thin film nanocomposite forward osmosis membrane with hydrophilic nanocomposite support to reduce internal concentration polarization. <i>Journal of Membrane Science</i> , 2014, 449, 74-85.	8.2	235

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37	Carbon nanotubes for desalination: Performance evaluation and current hurdles. <i>Desalination</i> , 2013, 308, 2-14.	8.2	223
38	Recent trends in membranes and membrane processes for desalination. <i>Desalination</i> , 2016, 391, 43-60.	8.2	223
39	Directional alignment of carbon nanotubes in polymer matrices: Contemporary approaches and future advances. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 56, 103-126.	7.6	213
40	Multifunctional carbon nanotubes in water treatment: The present, past and future. <i>Desalination</i> , 2014, 354, 160-179.	8.2	210
41	Fabrication of polydopamine functionalized halloysite nanotube/polyetherimide membranes for heavy metal removal. <i>Journal of Materials Chemistry A</i> , 2016, 4, 764-774.	10.3	209
42	Fabrications and applications of low cost ceramic membrane from kaolin: A comprehensive review. <i>Ceramics International</i> , 2018, 44, 4538-4560.	4.8	209
43	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020, 9, 1309.	5.1	199
44	Polysulfone/hydrous ferric oxide ultrafiltration mixed matrix membrane: Preparation, characterization and its adsorptive removal of lead (II) from aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 289, 28-37.	12.7	196
45	A review of integrated photocatalyst adsorbents for wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7411-7425.	6.7	196
46	Formation of thin film composite nanofiltration membrane: Effect of polysulfone substrate characteristics. <i>Desalination</i> , 2013, 329, 9-18.	8.2	180
47	Graphene-based nanomaterial: The state-of-the-art material for cutting edge desalination technology. <i>Desalination</i> , 2015, 356, 115-128.	8.2	179
48	The effects of natural organic matter (NOM) fractions on fouling characteristics and flux recovery of ultrafiltration membranes. <i>Desalination</i> , 2007, 212, 191-208.	8.2	175
49	Gas Separation Membranes. , 2015, , .		173
50	Nanomaterials for biofouling and scaling mitigation of thin film composite membrane: A review. <i>Desalination</i> , 2016, 393, 2-15.	8.2	164
51	Hybrid membrane filtration-advanced oxidation processes for removal of pharmaceutical residue. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 236-260.	9.4	164
52	Fouling control on microfiltration/ultrafiltration membranes: Effects of morphology, hydrophilicity, and charge. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	161
53	Radioactive decontamination of water by membrane processes " A review. <i>Desalination</i> , 2013, 321, 77-92.	8.2	160
54	Inorganic Nanomaterials in Polymeric Ultrafiltration Membranes for Water Treatment. <i>Separation and Purification Reviews</i> , 2015, 44, 216-249.	5.5	159

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55	Enhanced gas permeation performance of polyethersulfone mixed matrix hollow fiber membranes using novel Dynasylan Ameo silane agent. <i>Journal of Membrane Science</i> , 2008, 319, 306-312.	8.2	153
56	Morphology and permeation properties of polysulfone membranes for gas separation: Effects of non-solvent additives and co-solvent. <i>Separation and Purification Technology</i> , 2010, 72, 194-202.	7.9	153
57	A novel thin film nanocomposite reverse osmosis membrane with superior anti-organic fouling affinity for water desalination. <i>Desalination</i> , 2015, 368, 106-113.	8.2	153
58	Influence of the thermastabilization process and soak time during pyrolysis process on the polyacrylonitrile carbon membranes for O ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2003, 213, 285-291.	8.2	152
59	Precursor Selection and Process Conditions in the Preparation of Carbon Membrane for Gas Separation: A Review. <i>Separation and Purification Reviews</i> , 2011, 40, 261-311.	5.5	151
60	Recent fabrication techniques for micro-tubular solid oxide fuel cell support: A review. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1-22.	5.7	149
61	Minimizing structural parameter of thin film composite forward osmosis membranes using polysulfone/halloysite nanotubes as membrane substrates. <i>Desalination</i> , 2016, 377, 152-162.	8.2	149
62	Effect of pre-treatment and biofouling of proton exchange membrane on microbial fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5480-5484.	7.1	148
63	Physicochemical characteristic of regenerated cellulose/N-doped TiO ₂ nanocomposite membrane fabricated from recycled newspaper with photocatalytic activity under UV and visible light irradiation. <i>Chemical Engineering Journal</i> , 2016, 284, 202-215.	12.7	147
64	Synthesis and characterization of novel thin film nanocomposite (TFN) membranes embedded with halloysite nanotubes (HNTs) for water desalination. <i>Desalination</i> , 2015, 358, 33-41.	8.2	146
65	Recent progresses in polymeric hollow fiber membrane preparation, characterization and applications. <i>Separation and Purification Technology</i> , 2013, 111, 43-71.	7.9	145
66	Synthesis, modification and optimization of titanate nanotubes-polyamide thin film nanocomposite (TFN) membrane for forward osmosis (FO) application. <i>Chemical Engineering Journal</i> , 2015, 281, 243-251.	12.7	145
67	Effects of phase inversion and rheological factors on formation of defect-free and ultrathin-skinned asymmetric polysulfone membranes for gas separation. <i>Separation and Purification Technology</i> , 2003, 33, 127-143.	7.9	142
68	Effect of operating conditions on the physical and chemical CO ₂ absorption through the PVDF hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2010, 353, 192-200.	8.2	141
69	Study on the thin film composite poly(piperazine-amide) nanofiltration membrane: Impacts of physicochemical properties of substrate on interfacial polymerization formation. <i>Desalination</i> , 2014, 344, 198-205.	8.2	141
70	Gas separation performance of polyethersulfone/multi-walled carbon nanotubes mixed matrix membranes. <i>Separation and Purification Technology</i> , 2011, 80, 20-31.	7.9	139
71	Gas separation properties of functionalized carbon nanotubes mixed matrix membranes. <i>Separation and Purification Technology</i> , 2011, 78, 208-213.	7.9	138
72	Current trends and future prospects of ammonia removal in wastewater: A comprehensive review on adsorptive membrane development. <i>Separation and Purification Technology</i> , 2019, 213, 114-132.	7.9	136

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73	Aqueous room temperature synthesis of zeolitic imidazole framework 8 (ZIF-8) with various concentrations of triethylamine. <i>RSC Advances</i> , 2014, 4, 33292-33300.	3.6	135
74	Physicochemical properties of “green” nanocrystalline cellulose isolated from recycled newspaper. <i>RSC Advances</i> , 2015, 5, 29842-29849.	3.6	132
75	A review of technologies for the phenolic compounds recovery and phenol removal from wastewater. <i>Chemical Engineering Research and Design</i> , 2021, 151, 257-289.	5.6	132
76	Adsorptive nanocomposite membranes for heavy metal remediation: Recent progresses and challenges. <i>Chemosphere</i> , 2019, 232, 96-112.	8.2	130
77	Polymeric membranes for desalination using membrane distillation: A review. <i>Desalination</i> , 2020, 490, 114530.	8.2	130
78	Spray coating methods for polymer solar cells fabrication: A review. <i>Materials Science in Semiconductor Processing</i> , 2015, 39, 416-425.	4.0	129
79	Preparation of regenerated cellulose/montmorillonite nanocomposite films via ionic liquids. <i>Carbohydrate Polymers</i> , 2012, 88, 1251-1257.	10.2	126
80	Production of super selective polysulfone hollow fiber membranes for gas separation. <i>Polymer</i> , 1999, 40, 6499-6506.	3.8	125
81	Nano-enabled membranes technology: Sustainable and revolutionary solutions for membrane desalination?. <i>Desalination</i> , 2016, 380, 100-104.	8.2	125
82	Effect of chitosan as a functionalization agent on the performance and separation properties of polyimide/multi-walled carbon nanotubes mixed matrix flat sheet membranes. <i>Journal of Membrane Science</i> , 2010, 364, 309-317.	8.2	124
83	Development of the PVA/CS nanofibers containing silk protein sericin as a wound dressing: In vitro and in vivo assessment. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 513-521.	7.5	122
84	Effect of carbon molecular sieve sizing with poly(vinyl pyrrolidone) K-15 on carbon molecular sieve “polysulfone mixed matrix membrane. <i>Journal of Membrane Science</i> , 2008, 307, 53-61.	8.2	121
85	Recent advances in the development of (bio)fouling resistant thin film composite membranes for desalination. <i>Desalination</i> , 2016, 380, 105-111.	8.2	121
86	Enhanced oil “water separation using polysulfone membranes modified with polymeric additives. <i>Desalination</i> , 2014, 344, 280-288.	8.2	118
87	Computational Fluid Dynamic (CFD) opportunities applied to the membrane distillation process: State-of-the-art and perspectives. <i>Desalination</i> , 2016, 377, 73-90.	8.2	116
88	Fabrication and characterization of novel PES/Fe “Mn binary oxide UF mixed matrix membrane for adsorptive removal of As(III) from contaminated water solution. <i>Separation and Purification Technology</i> , 2013, 118, 64-72.	7.9	115
89	Adsorptive removal of Pb(II) from aqueous solution by novel PES/HMO ultrafiltration mixed matrix membrane. <i>Separation and Purification Technology</i> , 2013, 120, 59-68.	7.9	115
90	Effect of additives on the structure and performance of polysulfone hollow fiber membranes for CO ₂ absorption. <i>Journal of Membrane Science</i> , 2010, 348, 260-267.	8.2	114

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91	Stability and thermal conductivity enhancement of carbon nanotube nanofluid using gum arabic. <i>Journal of Experimental Nanoscience</i> , 2011, 6, 567-579.	2.4	114
92	Simultaneous wastewater treatment and electricity generation by microbial fuel cell: Performance comparison and cost investigation of using Nafion 117 and SPEEK as separators. <i>Desalination</i> , 2013, 325, 1-6.	8.2	114
93	Silver-filled polyethersulfone membranes for antibacterial applications – Effect of PVP and TAP addition on silver dispersion. <i>Desalination</i> , 2010, 261, 264-271.	8.2	113
94	Effect of modified PVDF hollow fiber submerged ultrafiltration membrane for refinery wastewater treatment. <i>Desalination</i> , 2011, 283, 214-220.	8.2	113
95	Functionalization of polymeric materials as a high performance membrane for direct methanol fuel cell: A review. <i>Reactive and Functional Polymers</i> , 2015, 86, 248-258.	4.1	113
96	Fabrication, fouling and foulant analyses of asymmetric polysulfone (PSF) ultrafiltration membrane fouled with natural organic matter (NOM) source waters. <i>Journal of Membrane Science</i> , 2007, 299, 97-113.	8.2	112
97	A practical approach to synthesize polyamide thin film nanocomposite (TFN) membranes with improved separation properties for water/wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4134-4144.	10.3	111
98	Fouling mitigation in forward osmosis and membrane distillation for desalination. <i>Desalination</i> , 2020, 480, 114338.	8.2	111
99	PSSA pore-filled PVDF membranes by simultaneous electron beam irradiation: Preparation and transport characteristics of protons and methanol. <i>Journal of Membrane Science</i> , 2006, 268, 96-108.	8.2	110
100	Effects of montmorillonite nano-clay fillers on PEI mixed matrix membrane for CO ₂ removal. <i>Chemical Engineering Journal</i> , 2011, 170, 316-325.	12.7	110
101	Sulfonated polyether ether ketone composite membrane using tungstosilicic acid supported on silica-aluminium oxide for direct methanol fuel cell (DMFC). <i>Journal of Membrane Science</i> , 2009, 329, 18-29.	8.2	109
102	Effect of LiCl concentration in the polymer dope on the structure and performance of hydrophobic PVDF hollow fiber membranes for CO ₂ absorption. <i>Chemical Engineering Journal</i> , 2010, 165, 980-988.	12.7	109
103	Improving performance and antifouling capability of PES UF membranes via blending with highly hydrophilic hydrous manganese dioxide nanoparticles. <i>Desalination</i> , 2014, 335, 87-95.	8.2	109
104	Antibacterial properties of copper-substituted cobalt ferrite nanoparticles synthesized by co-precipitation method. <i>Particuology</i> , 2017, 30, 158-163.	3.6	109
105	Mixed matrix membrane incorporated with large pore size halloysite nanotubes (HNT) as filler for gas separation: Experimental. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 359-370.	9.4	108
106	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020, 13, 2153.	2.9	108
107	Super hydrophilic TiO ₂ /HNT nanocomposites as a new approach for fabrication of high performance thin film nanocomposite membranes for FO application. <i>Desalination</i> , 2015, 371, 104-114.	8.2	107
108	Facile modification of ZIF-8 mixed matrix membrane for CO ₂ /CH ₄ separation: synthesis and preparation. <i>RSC Advances</i> , 2015, 5, 43110-43120.	3.6	107

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109	In vitro and in vivo evaluation of chitosan-alginate/gentamicin wound dressing nanofibrous with high antibacterial performance. <i>Polymer Testing</i> , 2020, 82, 106298.	4.8	107
110	Effect of polymer concentration on the structure and performance of polyetherimide hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010, 363, 103-111.	8.2	106
111	The impact of ZIF-8 particle size and heat treatment on CO ₂ /CH ₄ separation using asymmetric mixed matrix membrane. <i>RSC Advances</i> , 2014, 4, 52530-52541.	3.6	106
112	Novel polyethersulfone (PES)/hydrous manganese dioxide (HMO) mixed matrix membranes with improved anti-fouling properties for oily wastewater treatment process. <i>RSC Advances</i> , 2014, 4, 17587-17596.	3.6	105
113	Investigation of submerged membrane photocatalytic reactor (sMPR) operating parameters during oily wastewater treatment process. <i>Desalination</i> , 2014, 353, 48-56.	8.2	104
114	Synthesis of thin film nanocomposite forward osmosis membrane with enhancement in water flux without sacrificing salt rejection. <i>Desalination</i> , 2013, 330, 90-99.	8.2	103
115	Effect of additive contents on the performances and structural properties of asymmetric polyethersulfone (PES) nanofiltration membranes. <i>Separation and Purification Technology</i> , 2007, 55, 98-109.	7.9	102
116	Prediction of gas permeability in mixed matrix membranes using theoretical models. <i>Journal of Membrane Science</i> , 2010, 347, 53-61.	8.2	102
117	Fourier Transform Infrared (FTIR) Spectroscopy. , 2017, , 3-29.		102
118	Current advances in membrane technologies for produced water desalination. <i>Desalination</i> , 2020, 493, 114643.	8.2	102
119	Characterization Methods of Thin Film Composite Nanofiltration Membranes. <i>Separation and Purification Reviews</i> , 2015, 44, 135-156.	5.5	101
120	In vitro degradation behavior, antibacterial activity and cytotoxicity of TiO ₂ -MAO/ZnHA composite coating on Mg alloy for orthopedic implants. <i>Surface and Coatings Technology</i> , 2018, 334, 450-460.	4.8	101
121	A review on photothermal material and its usage in the development of photothermal membrane for sustainable clean water production. <i>Desalination</i> , 2021, 517, 115259.	8.2	100
122	Review on the development of defect-free and ultrathin-skinned asymmetric membranes for gas separation through manipulation of phase inversion and rheological factors. <i>Journal of Applied Polymer Science</i> , 2003, 88, 442-451.	2.6	98
123	Membrane technology: A versatile tool for saline wastewater treatment and resource recovery. <i>Desalination</i> , 2022, 521, 115377.	8.2	98
124	Performance intensification of the polysulfone ultrafiltration membrane by blending with copolymer encompassing novel derivative of poly(styrene-co-maleic anhydride) for heavy metal removal from wastewater. <i>Chemical Engineering Journal</i> , 2018, 353, 425-435.	12.7	96
125	Preparation and barrier properties of SPEEK/Cloisite 15A®/TAP nanocomposite membrane for DMFC application. <i>Journal of Membrane Science</i> , 2009, 345, 119-127.	8.2	95
126	Synthesis and characterization of novel thin film nanocomposite reverse osmosis membranes with improved organic fouling properties for water desalination. <i>RSC Advances</i> , 2015, 5, 21268-21276.	3.6	95

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127	Performance of SPEEK based polymer-nanoclay inorganic membrane for DMFC. <i>Journal of Membrane Science</i> , 2011, 382, 202-211.	8.2	94
128	Hydrophobic ceramic membrane for membrane distillation: A mini review on preparation, characterization, and applications. <i>Separation and Purification Technology</i> , 2019, 217, 71-84.	7.9	94
129	Humic Acid Based Biopolymeric Membrane for Effective Removal of Methylene Blue and Rhodamine B. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4965-4975.	3.7	93
130	Novel mixed matrix membranes incorporated with dual-nanofillers for enhanced oil-water separation. <i>Separation and Purification Technology</i> , 2017, 178, 113-121.	7.9	93
131	Enhanced desalination of polyamide thin film nanocomposite incorporated with acid treated multiwalled carbon nanotube-titania nanotube hybrid. <i>Desalination</i> , 2017, 409, 163-170.	8.2	93
132	A novel green ceramic hollow fiber membrane (CHFM) derived from rice husk ash as combined adsorbent-separator for efficient heavy metals removal. <i>Ceramics International</i> , 2017, 43, 4716-4720.	4.8	93
133	Removal of metal ions and humic acids through polyetherimide membrane with grafted bentonite clay. <i>Scientific Reports</i> , 2018, 8, 4665.	3.3	93
134	Characterization of polyethersulfone/Matrimid® 5218 miscible blend mixed matrix membranes for O ₂ /N ₂ gas separation. <i>Separation and Purification Technology</i> , 2008, 63, 200-206.	7.9	92
135	Carbon as amorphous shell and interstitial dopant in mesoporous rutile TiO ₂ : Bio-template assisted sol-gel synthesis and photocatalytic activity. <i>Applied Surface Science</i> , 2017, 393, 46-59.	6.1	92
136	Application of two-dimensional leaf-shaped zeolitic imidazolate framework (2D ZIF-L) as arsenite adsorbent: Kinetic, isotherm and mechanism. <i>Journal of Molecular Liquids</i> , 2018, 250, 269-277.	4.9	91
137	Application of immobilized TiO ₂ on PVDF dual layer hollow fibre membrane to improve the photocatalytic removal of pharmaceuticals in different water matrices. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 9-18.	20.2	91
138	The potential of thin film nanocomposite membrane in reducing organic fouling in forward osmosis process. <i>Desalination</i> , 2014, 348, 82-88.	8.2	90
139	Photocatalytic degradation of nonylphenol by immobilized TiO ₂ in dual layer hollow fibre membranes. <i>Chemical Engineering Journal</i> , 2015, 269, 255-261.	12.7	90
140	Fabrication of low cost, green silica based ceramic hollow fibre membrane prepared from waste rice husk for water filtration application. <i>Ceramics International</i> , 2018, 44, 10498-10509.	4.8	90
141	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 25-59.	5.8	90
142	An overview of superhydrophobic ceramic membrane surface modification for oil-water separation. <i>Journal of Materials Research and Technology</i> , 2021, 12, 643-667.	5.8	90
143	Polysulfone-Chitosan blend ultrafiltration membranes: preparation, characterization, permeation and antifouling properties. <i>RSC Advances</i> , 2013, 3, 7855.	3.6	89
144	Fabrication and hemocompatibility assessment of novel polyurethane-based bio-nanofibrous dressing loaded with honey and <i>Carica papaya</i> extract for the management of burn injuries. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4339-4355.	6.7	89

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145	Use of cellulose acetate/polyphenylsulfone derivatives to fabricate ultrafiltration hollow fiber membranes for the removal of arsenic from drinking water. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 715-727.	7.5	89
146	Asymmetric mixed matrix membrane incorporating organically modified clay particle for gas separation. <i>Chemical Engineering Journal</i> , 2014, 241, 495-503.	12.7	88
147	Development and characterization of novel charged surface modification macromolecule to polyethersulfone hollow fiber membrane with polyvinylpyrrolidone and water. <i>Journal of Membrane Science</i> , 2009, 331, 40-49.	8.2	86
148	Studies on fouling by natural organic matter (NOM) on polysulfone membranes: Effect of polyethylene glycol (PEG). <i>Desalination</i> , 2014, 333, 36-44.	8.2	86
149	Progress of Interfacial Polymerization Techniques for Polyamide Thin Film (Nano)Composite Membrane Fabrication: A Comprehensive Review. <i>Polymers</i> , 2020, 12, 2817.	4.5	86
150	Preparation and characterization of novel PSf/PVP/PANI-nanofiber nanocomposite hollow fiber ultrafiltration membranes and their possible applications for hazardous dye rejection. <i>Desalination</i> , 2015, 365, 117-125.	8.2	85
151	Incorporation of N-doped TiO ₂ nanorods in regenerated cellulose thin films fabricated from recycled newspaper as a green portable photocatalyst. <i>Carbohydrate Polymers</i> , 2015, 133, 429-437.	10.2	85
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