

Mikel C Duke

List of Publications by Year in descending order

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174
papers

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31976

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42399

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191
all docs

191
docs citations

191
times ranked

8099
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Membrane Distillation for Water Desalination and Purification Applications. Water (Switzerland), 2013, 5, 94-196.	2.7	601
2	Inorganic membranes for hydrogen production and purification: A critical review and perspective. Journal of Colloid and Interface Science, 2007, 314, 589-603.	9.4	522
3	Wetting phenomena in membrane distillation: Mechanisms, reversal, and prevention. Water Research, 2018, 139, 329-352.	11.3	498
4	Critical review of the science and sustainability of persulphate advanced oxidation processes. Chemical Engineering Journal, 2018, 338, 651-669.	12.7	461
5	Characterization and evaluation of carbon nanotube Bucky-Paper membranes for direct contact membrane distillation. Journal of Membrane Science, 2010, 351, 36-43.	8.2	279
6	Identification of material and physical features of membrane distillation membranes for high performance desalination. Journal of Membrane Science, 2010, 349, 295-303.	8.2	242
7	Recent Developments in Carbon Nanotube Membranes for Water Purification and Gas Separation. Materials, 2010, 3, 127-149.	2.9	232
8	Treatment of RO brine from CSG produced water by spiral-wound air gap membrane distillation – A pilot study. Desalination, 2015, 366, 121-129.	8.2	192
9	Economic analysis of desalination technologies in the context of carbon pricing, and opportunities for membrane distillation. Desalination, 2013, 323, 66-74.	8.2	191
10	Pilot trial of membrane distillation driven by low grade waste heat: Membrane fouling and energy assessment. Desalination, 2016, 391, 30-42.	8.2	185
11	Hydrothermally Robust Molecular Sieve Silica for Wet Gas Separation. Advanced Functional Materials, 2006, 16, 1215-1220.	14.9	177
12	Seawater desalination performance of MFI type membranes made by secondary growth. Separation and Purification Technology, 2009, 68, 343-350.	7.9	145
13	Carbonised template molecular sieve silica membranes in fuel processing systems: permeation, hydrostability and regeneration. Journal of Membrane Science, 2004, 241, 325-333.	8.2	130
14	Enhanced durability and hydrophobicity of carbon nanotube bucky paper membranes in membrane distillation. Journal of Membrane Science, 2011, 376, 241-246.	8.2	124
15	Nafion/polyaniline/silica composite membranes for direct methanol fuel cell application. Journal of Power Sources, 2007, 166, 324-330.	7.8	115
16	Hydrothermal stability of cobalt silica membranes in a water gas shift membrane reactor. Separation and Purification Technology, 2009, 66, 299-305.	7.9	115
17	Recent progress in polycrystalline zeolite membrane research. Current Opinion in Chemical Engineering, 2013, 2, 209-216.	7.8	109
18	Towards new opportunities for reuse, recycling and disposal of used reverse osmosis membranes. Desalination, 2012, 299, 103-112.	8.2	106

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19	Performance of porous inorganic membranes in non-osmotic desalination. <i>Water Research</i> , 2007, 41, 3998-4004.	11.3	103
20	Metal doped silica membrane reactor: Operational effects of reaction and permeation for the water gas shift reaction. <i>Journal of Membrane Science</i> , 2008, 316, 46-52.	8.2	98
21	Fouling of dairy components on hydrophobic polytetrafluoroethylene (PTFE) membranes for membrane distillation. <i>Journal of Membrane Science</i> , 2013, 442, 149-159.	8.2	93
22	Scaling control during membrane distillation of coal seam gas reverse osmosis brine. <i>Journal of Membrane Science</i> , 2015, 493, 673-682.	8.2	93
23	Effect of addition of two-dimensional ZIF-L nanoflakes on the properties of polyethersulfone ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2014, 460, 9-17.	8.2	92
24	Performance of asymmetric hollow fibre membranes in membrane distillation under various configurations and vacuum enhancement. <i>Journal of Membrane Science</i> , 2010, 362, 517-528.	8.2	89
25	Demonstration of membrane distillation on textile waste water: assessment of long term performance, membrane cleaning and waste heat integration. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 433-449.	2.4	89
26	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , 2014, 453, 126-135.	8.2	88
27	Properties of acid whey as a function of pH and temperature. <i>Journal of Dairy Science</i> , 2015, 98, 4352-4363.	3.4	88
28	Metal-Organic Framework-Coated Optical Fibers as Light-Triggered Drug Delivery Vehicles. <i>Advanced Functional Materials</i> , 2016, 26, 3244-3249.	14.9	88
29	In-Situ Crystallization Route to Nanorod-Aggregated Functional ZSM-5 Microspheres. <i>Journal of the American Chemical Society</i> , 2013, 135, 1181-1184.	13.7	84
30	Seeded growth of ZIF-8 on the surface of carbon nanotubes towards self-supporting gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9208.	10.3	83
31	Fabrication of thin film composite poly(amide)-carbon-nanotube supported membranes for enhanced performance in osmotically driven desalination systems. <i>Journal of Membrane Science</i> , 2013, 427, 422-430.	8.2	81
32	Relating water vapor transfer to ammonia recovery from biogas slurry by vacuum membrane distillation. <i>Separation and Purification Technology</i> , 2018, 191, 182-191.	7.9	78
33	Carbonised template silica membranes for desalination. <i>Desalination</i> , 2009, 236, 291-298.	8.2	76
34	The impact of hydrophobic coating on the performance of carbon nanotube bucky-paper membranes in membrane distillation. <i>Desalination</i> , 2011, 283, 64-67.	8.2	76
35	Preparation and characterization of poly(vinylidene fluoride)/nanoclay nanocomposite flat sheet membranes for abrasion resistance. <i>Water Research</i> , 2014, 57, 56-66.	11.3	76
36	Performance assessment of membrane distillation for skim milk and whey processing. <i>Journal of Dairy Science</i> , 2014, 97, 56-71.	3.4	76

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37	Scale reduction and cleaning techniques during direct contact membrane distillation of seawater reverse osmosis brine. <i>Desalination</i> , 2015, 374, 20-30.	8.2	75
38	Performance of cobalt silica membranes in gas mixture separation. <i>Journal of Membrane Science</i> , 2009, 329, 91-98.	8.2	72
39	Application of robust MFI-type zeolite membrane for desalination of saline wastewater. <i>Journal of Membrane Science</i> , 2015, 475, 167-174.	8.2	72
40	Enhanced abrasion resistant PVDF/nanoclay hollow fibre composite membranes for water treatment. <i>Journal of Membrane Science</i> , 2014, 449, 146-157.	8.2	70
41	Exposing the Molecular Sieving Architecture of Amorphous Silica Using Positron Annihilation Spectroscopy. <i>Advanced Functional Materials</i> , 2008, 18, 3818-3826.	14.9	69
42	Modelling of vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2013, 434, 1-9.	8.2	69
43	Membrane scaling and prevention techniques during seawater desalination by air gap membrane distillation. <i>Desalination</i> , 2016, 397, 92-100.	8.2	68
44	An analysis of the Peclet and Damkohler numbers for dehydrogenation reactions using molecular sieve silica (MSS) membrane reactors. <i>Catalysis Today</i> , 2006, 116, 12-17.	4.4	66
45	Growth of nano-textured graphene coatings across highly porous stainless steel supports towards corrosion resistant coatings. <i>Carbon</i> , 2015, 87, 395-408.	10.3	65
46	Nanofiltration and nanodiafiltration of acid whey as a function of pH and temperature. <i>Separation and Purification Technology</i> , 2016, 160, 18-27.	7.9	65
47	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. <i>Environmental Science & Technology</i> , 2020, 54, 7715-7724.	10.0	63
48	Fouling mechanisms of dairy streams during membrane distillation. <i>Journal of Membrane Science</i> , 2013, 441, 102-111.	8.2	62
49	Structural effects on SAPO-34 and ZIF-8 materials exposed to seawater solutions, and their potential as desalination membranes. <i>Desalination</i> , 2016, 377, 128-137.	8.2	62
50	Carbon nanotube based composite membranes for water desalination by membrane distillation. <i>Desalination and Water Treatment</i> , 2010, 17, 72-79.	1.0	60
51	Production and characterisation of UF membranes by chemical conversion of used RO membranes. <i>Journal of Membrane Science</i> , 2013, 447, 203-211.	8.2	60
52	Single step preparation of meso-porous and reduced graphene oxide by gamma-ray irradiation in gaseous phase. <i>Carbon</i> , 2014, 70, 313-318.	10.3	59
53	The role of membrane surface energy on direct contact membrane distillation performance. <i>Desalination</i> , 2013, 323, 22-30.	8.2	58
54	The fabrication and surface functionalization of porous metal frameworks – a review. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15185.	10.3	56

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55	Dual function filtration and catalytic breakdown of organic pollutants in wastewater using ozonation with titania and alumina membranes. <i>Journal of Membrane Science</i> , 2011, 378, 61-72.	8.2	54
56	Sustainable waste water deammonification by vacuum membrane distillation without pH adjustment: Role of water chemistry. <i>Chemical Engineering Journal</i> , 2017, 328, 884-893.	12.7	53
57	Towards Enhanced Performance Thin-film Composite Membranes via Surface Plasma Modification. <i>Scientific Reports</i> , 2016, 6, 29206.	3.3	50
58	Influence of pre-treatment combinations on RO membrane fouling. <i>Desalination</i> , 2016, 393, 120-126.	8.2	50
59	Assessment of postcombustion carbon capture technologies for power generation. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 184-195.	0.6	48
60	Integration of membrane distillation into heat paths of industrial processes. <i>Chemical Engineering Journal</i> , 2012, 211-212, 378-387.	12.7	48
61	Direct Contact Membrane Distillation of Dairy Process Streams. <i>Membranes</i> , 2011, 1, 48-58.	3.0	45
62	Recovery of sulphuric acid from waste and process solutions using solvent extraction. <i>Hydrometallurgy</i> , 2013, 138, 14-20.	4.3	45
63	Amine Enrichment of Thin-Film Composite Membranes via Low Pressure Plasma Polymerization for Antimicrobial Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14644-14653.	8.0	45
64	Cheese whey to biohydrogen and useful organic acids: A non-pathogenic microbial treatment by <i>L. acidophilus</i> . <i>Scientific Reports</i> , 2019, 9, 8320.	3.3	44
65	Investigation of the effects of ion and water interaction on structure and chemistry of silicalite MFI type zeolite for its potential use as a seawater desalination membrane. <i>Journal of Materials Chemistry</i> , 2010, 20, 4675.	6.7	43
66	Control of Porosity and Pore Size of Metal Reinforced Carbon Nanotube Membranes. <i>Membranes</i> , 2011, 1, 25-36.	3.0	42
67	A Pervaporation Study of Ammonia Solutions Using Molecular Sieve Silica Membranes. <i>Membranes</i> , 2014, 4, 40-54.	3.0	42
68	Membrane distillation and membrane electrolysis of coal seam gas reverse osmosis brine for clean water extraction and NaOH production. <i>Desalination</i> , 2016, 397, 108-115.	8.2	42
69	Impact of ozonation and biological activated carbon filtration on ceramic membrane fouling. <i>Water Research</i> , 2017, 126, 308-318.	11.3	42
70	Flowfields on feed and permeate sides of tubular molecular sieving silica (MSS) membranes. <i>Journal of Membrane Science</i> , 2007, 299, 229-235.	8.2	41
71	Towards integrated anti-microbial capabilities: Novel bio-fouling resistant membranes by high velocity embedment of silver particles. <i>Journal of Membrane Science</i> , 2015, 475, 552-561.	8.2	41
72	Nanofiber Composite Membrane with Intrinsic Janus Surface for Reversed-Protein-Fouling Ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18328-18337.	8.0	41

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73	Short Review on Porous Metal Membranes's Fabrication, Commercial Products, and Applications. <i>Membranes</i> , 2018, 8, 83.	3.0	39
74	Temperature and Pressure Effects of Desalination Using a MFI-Type Zeolite Membrane. <i>Membranes</i> , 2013, 3, 155-168.	3.0	37
75	Membrane Distillation Trial on Textile Wastewater Containing Surfactants Using Hydrophobic and Hydrophilic-Coated Polytetrafluoroethylene (PTFE) Membranes. <i>Membranes</i> , 2018, 8, 31.	3.0	37
76	Influence of the Sonication Temperature on the Debundling Kinetics of Carbon Nanotubes in Propan-2-ol. <i>Nanomaterials</i> , 2013, 3, 70-85.	4.1	36
77	Nanocomposites for Improved Physical Durability of Porous PVDF Membranes. <i>Membranes</i> , 2014, 4, 55-78.	3.0	36
78	Activation of Persulfate at Waste Heat Temperatures for Humic Acid Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4345-4353.	6.7	36
79	Improving cell yield and lactic acid production of <i>Lactococcus lactis</i> ssp. <i>cremoris</i> by a novel submerged membrane fermentation process. <i>Journal of Membrane Science</i> , 2012, 403-404, 179-187.	8.2	33
80	Recovery of water and acid from leach solutions using direct contact membrane distillation. <i>Water Science and Technology</i> , 2014, 69, 868-875.	2.5	33
81	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. <i>Optics Letters</i> , 2016, 41, 1696.	3.3	33
82	Feasibility, mechanisms, and optimisation of organic pollutant degradation by thermally activated persulphate. <i>Chemical Engineering Research and Design</i> , 2018, 136, 304-314.	5.6	33
83	Thermo-responsive nanofibrous composite membranes for efficient self-cleaning of protein foulants. <i>Journal of Membrane Science</i> , 2019, 574, 309-317.	8.2	33
84	Characterization of carbon nanotube webs and yarns with small angle X-ray scattering: Revealing the yarn twist and inter-nanotube interactions and alignment. <i>Carbon</i> , 2013, 63, 562-566.	10.3	31
85	Comparison of the effects of ozone, biological activated carbon (BAC) filtration and combined ozone-BAC pre-treatments on the microfiltration of secondary effluent. <i>Separation and Purification Technology</i> , 2019, 215, 308-316.	7.9	31
86	Activation of gold decorated carbon nanotube hybrids for targeted gas adsorption and enhanced catalytic oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 9374.	6.7	30
87	Mixed Matrix Carbon Molecular Sieve and Alumina (CMS-Al ₂ O ₃) Membranes. <i>Scientific Reports</i> , 2016, 6, 30703.	3.3	30
88	Customizing the surface charge of thin-film composite membranes by surface plasma thin film polymerization. <i>Journal of Membrane Science</i> , 2017, 537, 1-10.	8.2	29
89	Light conducting photocatalytic membrane for chemical-free fouling control in water treatment. <i>Journal of Membrane Science</i> , 2020, 604, 118018.	8.2	28
90	Plasma-induced physicochemical effects on a poly(amide) thin-film composite membrane. <i>Desalination</i> , 2017, 403, 3-11.	8.2	24

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91	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning. ACS Applied Materials & Interfaces, 2018, 10, 27477-27487.	8.0	24
92	Designing hierarchical porous features of ZSM-5 zeolites via Si/Al ratio and their dynamic behavior in seawater ion complexes. Microporous and Mesoporous Materials, 2013, 173, 78-85.	4.4	23
93	Effects of dope sonication and hydrophilic polymer addition on the properties of low pressure PVDF mixed matrix membranes. Journal of Membrane Science, 2017, 540, 200-211.	8.2	23
94	Strategies for maximizing removal of lactic acid from acid whey – Addressing the un-processability issue. Separation and Purification Technology, 2017, 172, 489-497.	7.9	23
95	Modeling of heat and mass transfer in vacuum membrane distillation for ammonia separation. Separation and Purification Technology, 2019, 224, 121-131.	7.9	23
96	Diffusion behavior of humic acid during desalination with air gap and water gap membrane distillation. Water Research, 2019, 158, 182-192.	11.3	23
97	Impact of casting conditions on PVDF/nanoclay nanocomposite membrane properties. Chemical Engineering Journal, 2015, 267, 73-85.	12.7	22
98	Lactic acid enrichment with inorganic nanofiltration and molecular sieving membranes by pervaporation. Food and Bioproducts Processing, 2008, 86, 290-295.	3.6	21
99	Advanced oxidation of orange G using phosphonic acid stabilised zerovalent iron. Journal of Environmental Chemical Engineering, 2017, 5, 4014-4023.	6.7	21
100	UV/TiO ₂ photocatalytic oxidation of recalcitrant organic matter: effect of salinity and pH. Water Science and Technology, 2014, 70, 437-443.	2.5	20
101	Pervaporation of ammonia solution with γ -alumina supported organosilica membranes. Separation and Purification Technology, 2016, 168, 141-151.	7.9	20
102	Silica fouling during direct contact membrane distillation of coal seam gas brine with high sodium bicarbonate and low hardness. Desalination, 2018, 444, 107-117.	8.2	20
103	Membrane reactor modelling, validation and simulation for the WGS reaction using metal doped silica membranes. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 83-92.	1.5	19
104	Investigation of the dispersion of nanoclays into PVDF for enhancement of physical membrane properties. Desalination and Water Treatment, 2011, 34, 251-256.	1.0	19
105	Membrane Distillation of Meat Industry Effluent with Hydrophilic Polyurethane Coated Polytetrafluoroethylene Membranes. Membranes, 2017, 7, 55.	3.0	18
106	A Preliminary Study on the Effect of Macro Cavities Formation on Properties of Carbon Nanotube Bucky-Paper Composites. Materials, 2011, 4, 553-561.	2.9	16
107	A method for defect repair of MFI-type zeolite membranes by multivalent ion infiltration. Microporous and Mesoporous Materials, 2017, 237, 140-150.	4.4	16
108	Diffusion behaviour of multivalent ions at low pH through a MFI-type zeolite membrane. Desalination, 2018, 440, 88-98.	8.2	16

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109	Effects of dissolution conditions on the properties of PVDF ultrafiltration membranes. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 716-726.	8.2	16
110	Scale-up of molecular sieve silica membranes for reformat purification. <i>AIChE Journal</i> , 2004, 50, 2630-2634.	3.6	15
111	Silica membrane reactors for hydrogen processing. <i>Advances in Applied Ceramics</i> , 2007, 106, 29-34.	1.1	15
112	Influence of module design and membrane compressibility on VMD performance. <i>Journal of Membrane Science</i> , 2013, 442, 31-38.	8.2	15
113	A high volume and low damage route to hydroxyl functionalization of carbon nanotubes using hard X-ray lithography. <i>Carbon</i> , 2013, 51, 430-434.	10.3	15
114	A new integrated potable reuse process for a small remote community in Antarctica. <i>Chemical Engineering Research and Design</i> , 2016, 104, 196-208.	5.6	15
115	Assessment of pressure decay test for RO protozoa removal validation in remote operations. <i>Desalination</i> , 2016, 386, 19-24.	8.2	15
116	Removal of herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA) from saline industrial wastewater by reverse osmosis and nanofiltration. <i>Desalination</i> , 2020, 496, 114691.	8.2	15
117	Experimental and theoretical investigation of diffusion processes in a membrane anaerobic reactor for bio-hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5301-5311.	7.1	14
118	Combined TiO ₂ membrane filtration and ozonation for efficient water treatment to enhance the reuse of wastewater. <i>Desalination and Water Treatment</i> , 2011, 34, 57-62.	1.0	14
119	Seawater Use and Desalination Technology. , 2011, , 73-109.		14
120	Hybrid Processes Combining Photocatalysis and Ceramic Membrane Filtration for Degradation of Humic Acids in Saline Water. <i>Membranes</i> , 2016, 6, 18.	3.0	14
121	Treatment of secondary effluent by sequential combination of photocatalytic oxidation with ceramic membrane filtration. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5191-5202.	5.3	14
122	Synthetic magnetite, maghemite, and haematite activation of persulphate for orange G degradation. <i>Journal of Contaminant Hydrology</i> , 2018, 215, 73-85.	3.3	14
123	Ozone combined with ceramic membranes for water treatment: Impact on HO radical formation and mitigation of bromate. <i>Journal of Environmental Management</i> , 2020, 253, 109655.	7.8	14
124	Modeling hydrogen separation in high temperature silica membrane systems. <i>AIChE Journal</i> , 2006, 52, 1729-1735.	3.6	13
125	Effect of oxidation with coagulation and ceramic microfiltration pre-treatment on reverse osmosis for desalination of recycled wastewater. <i>Desalination</i> , 2018, 431, 106-118.	8.2	13
126	Highly-Efficient Sulfonated UiO-66(Zr) Optical Fiber for Rapid Detection of Trace Levels of Pb ²⁺ . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6053.	4.1	13

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127	Small angle X-ray scattering study of carbon nanotube forests densified into long range patterns by controlled solvent evaporation. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 556-560.	9.4	12
128	Inter-layer free cobalt-doped silica membranes for pervaporation of ammonia solutions. <i>Journal of Membrane Science</i> , 2018, 553, 111-116.	8.2	12
129	In situ small angle X-ray scattering investigation of the thermal expansion and related structural information of carbon nanotube composites. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 673-683.	4.4	11
130	Pilot demonstration of nitrogen removal from municipal wastewater by vacuum membrane distillation. <i>Journal of Water Process Engineering</i> , 2022, 47, 102726.	5.6	11
131	Proof of Concept for Light Conducting Membrane Substrate for UV-Activated Photocatalysis as an Alternative to Chemical Cleaning. <i>Membranes</i> , 2018, 8, 122.	3.0	10
132	Performance of new generation membrane distillation membranes. <i>Water Science and Technology: Water Supply</i> , 2009, 9, 501-508.	2.1	9
133	Fouling mechanisms and reduced chemical potential of ceramic membranes combined with ozone. <i>Water Practice and Technology</i> , 2015, 10, 806-813.	2.0	9
134	Charge tunable thin-film composite membranes by gamma-ray triggered surface polymerization. <i>Scientific Reports</i> , 2017, 7, 4426.	3.3	9
135	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. <i>Water (Switzerland)</i> , 2017, 9, 94.	2.7	9
136	Qualitative spectroscopic characterization of the matrix-silane coupling agent interface across metal fibre reinforced ion exchange resin composite membranes. <i>Vibrational Spectroscopy</i> , 2014, 75, 203-212.	2.2	8
137	Aqueous contaminant detection via UiO-66 thin film optical fiber sensor platform with fast Fourier transform based spectrum analysis. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025601.	2.8	8
138	Characterization and Pervaporation Study on Ethanol Separation Membranes. <i>Drying Technology</i> , 2009, 27, 538-541.	3.1	7
139	Changes in glucose fermentation pathways by an enriched bacterial culture in response to regulated dissolved H ₂ concentrations. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1177-1186.	3.3	7
140	Dual Functional Ultrafiltration Membranes with Enzymatic Digestion and Thermo-Responsivity for Protein Self-Cleaning. <i>Membranes</i> , 2018, 8, 85.	3.0	7
141	Sunlight-Transmitting Photocatalytic Membrane for Reduced Maintenance Water Treatment. <i>ACS ES&T Water</i> , 2021, 1, 2001-2011.	4.6	7
142	Proton Conductivities of Titanium Phosphate at High Temperature for PEMFC. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2006, 14, 101-118.	0.0	6
143	Fabrication of Meso-Porous Sintered Metal Thin Films by Selective Etching of Silica Based Sacrificial Template. <i>Nanomaterials</i> , 2014, 4, 686-699.	4.1	6
144	Co ³⁺ homogeneous mediator generation efficiency in a divided tubular electrochemical reactor with MFI-type zeolite membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 28-34.	5.8	6

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145	Performance of Hybrid Photocatalytic-Ceramic Membrane System for the Treatment of Secondary Effluent. <i>Membranes</i> , 2017, 7, 20.	3.0	6
146	Performance of a Two-Stage Membrane System for Bromelain Separation from Pineapple Waste Mixture as Impacted by Enzymatic Pre-Treatment and Diafiltration. <i>Food Technology and Biotechnology</i> , 2018, 56, 218-227.	2.1	6
147	Steel wool and carbonyl iron powder activation of persulphate for the degradation of pollutants. <i>Journal of Water Process Engineering</i> , 2018, 25, 58-69.	5.6	6
148	Silica Nafion Modified Composite Membranes for Direct Methanol Fuel Cells. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2006, 14, 119-131.	0.0	5
149	Effects of operating parameters on permeation flux for desalination of sodium chloride solution using air gap membrane distillation. <i>Desalination and Water Treatment</i> , 2010, 13, 362-368.	1.0	5
150	Forward for the Special Issue: Desalination for agriculture. <i>Desalination</i> , 2015, 364, 1.	8.2	5
151	Prototype membrane electrolysis using a MFI-zeolite-coated ceramic tubular membrane provides in-line generation of two active electron mediators by eliminating active species crossover. <i>Journal of Membrane Science</i> , 2019, 579, 302-308.	8.2	5
152	CHARACTERIZATION OF TITANIUM PHOSPHATE AS ELECTROLYTES IN FUEL CELLS. <i>International Journal of Modern Physics B</i> , 2006, 20, 4147-4152.	2.0	4
153	A hybrid photocatalysis and ceramic membrane filtration process for humic acid degradation: Effect of pore size and transmembrane pressure. , 0, 69, 102-108.		4
154	Energetics for gas separation in microporous membranes. <i>International Journal of Nanotechnology</i> , 2007, 4, 468.	0.2	3
155	The influence of seawater ions on the structural features of MFI, FAU and LTA zeolites. , 2010, , .		2
156	Xylene Separation Performance of Composition-Gradient MFI Zeolite Membranes. <i>Membrane Science and Technology</i> , 2011, 14, 195-212.	0.5	2
157	Whey Processing: Overview and Role of Membranes. , 2016, , 2021-2024.		2
158	Nanofibers for Membrane Applications. , 2018, , 1-24.		2
159	Food Waste Diversion from Landfills: A Cost-Benefit Analysis of Existing Technological Solutions Based on Greenhouse Gas Emissions. <i>Sustainability</i> , 2022, 14, 6753.	3.2	2
160	Silica membrane reactors for hydrogen production from water gas shift. , 2006, , .		1
161	Temperature and durability studies of lactic acid dehydration with inorganic membranes. , 2006, , .		1
162	Industrial waste heat powers desalination. <i>Membrane Technology</i> , 2012, 2012, 9.	0.1	1

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163	Selective sensing of alcohols in water influenced by chemically Zeolite coatings on optical fiber sensors. Proceedings of SPIE, 2014, , .	0.8	1
164	Nanoparticle Incorporation into Desalination and Water Treatment Membranesâ€”Potential Advantages and Challenges. , 2017, , 261-303.		1
165	Functional Nanoporous Titanium Dioxide for Separation Applications: Synthesis Routes and Properties to Performance Analysis. , 2019, , 151-186.		1
166	Mixed Matrix Carbon Molecular Sieve and Alumina (CMS-Al ₂ O ₃) Membranes. , 0, .		1
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