

Ho Kyong Shon

List of Publications by Year in descending order

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530
papers

26,976
citations

6250

80
h-index

11303

136
g-index

536
all docs

536
docs citations

536
times ranked

15006
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and physical aspects of natural organic matter (NOM) fouling of nanofiltration membranes. <i>Journal of Membrane Science</i> , 1997, 132, 159-181.	4.1	1,153
2	Influence of membrane surface properties on initial rate of colloidal fouling of reverse osmosis and nanofiltration membranes. <i>Journal of Membrane Science</i> , 2001, 188, 115-128.	4.1	1,010
3	Fouling and its control in membrane distillation—A review. <i>Journal of Membrane Science</i> , 2015, 475, 215-244.	4.1	776
4	Comparison of fouling behavior in forward osmosis (FO) and reverse osmosis (RO). <i>Journal of Membrane Science</i> , 2010, 365, 34-39.	4.1	645
5	Role of membrane surface morphology in colloidal fouling of cellulose acetate and composite aromatic polyamide reverse osmosis membranes. <i>Journal of Membrane Science</i> , 1997, 127, 101-109.	4.1	517
6	Effluent Organic Matter (EfOM) in Wastewater: Constituents, Effects, and Treatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2006, 36, 327-374.	6.6	461
7	Membrane-based processes for wastewater nutrient recovery: Technology, challenges, and future direction. <i>Water Research</i> , 2016, 89, 210-221.	5.3	405
8	A novel low energy fertilizer driven forward osmosis desalination for direct fertigation: Evaluating the performance of fertilizer draw solutions. <i>Journal of Membrane Science</i> , 2011, 375, 172-181.	4.1	384
9	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 502, 158-170.	4.1	320
10	Recent progress of membrane distillation using electrospun nanofibrous membrane. <i>Journal of Membrane Science</i> , 2014, 453, 435-462.	4.1	318
11	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. <i>Journal of Membrane Science</i> , 2016, 497, 430-449.	4.1	277
12	Effect of stacking sequence on the flexural properties of hybrid composites reinforced with carbon and basalt fibers. <i>Composites Part B: Engineering</i> , 2014, 58, 251-258.	5.9	258
13	Applications of capacitive deionization: Desalination, softening, selective removal, and energy efficiency. <i>Desalination</i> , 2019, 449, 118-130.	4.0	257
14	A review of draw solutes in forward osmosis process and their use in modern applications. <i>Desalination and Water Treatment</i> , 2012, 43, 167-184.	1.0	240
15	Fouling control in a forward osmosis process integrating seawater desalination and wastewater reclamation. <i>Journal of Membrane Science</i> , 2013, 444, 148-156.	4.1	214
16	Graphene oxide incorporated polysulfone substrate for the fabrication of flat-sheet thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 493, 496-507.	4.1	213
17	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018, 9, 683.	5.8	197
18	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. <i>Desalination</i> , 2020, 485, 114455.	4.0	194

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19	Semiconductor photothermal materials enabling efficient solar steam generation toward desalination and wastewater treatment. <i>Desalination</i> , 2021, 500, 114853.	4.0	179
20	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	4.0	177
21	Blended Fertilizers as Draw Solutions for Fertilizer-Drawn Forward Osmosis Desalination. <i>Environmental Science & Technology</i> , 2012, 46, 4567-4575.	4.6	170
22	CF ₄ plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017, 529, 234-242.	4.1	170
23	Colloidal fouling in forward osmosis: Role of reverse salt diffusion. <i>Journal of Membrane Science</i> , 2012, 390-391, 277-284.	4.1	169
24	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 99-110.	4.1	167
25	Hydrophilic polyvinyl alcohol coating on hydrophobic electrospun nanofiber membrane for high performance thin film composite forward osmosis membrane. <i>Desalination</i> , 2018, 426, 50-59.	4.0	162
26	Electrospun nanofiber membranes incorporating fluorosilane-coated TiO ₂ nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 145-154.	4.1	161
27	Assessing the major factors affecting the performances of forward osmosis and its implications on the desalination process. <i>Chemical Engineering Journal</i> , 2013, 231, 484-496.	6.6	155
28	Towards a low-energy seawater reverse osmosis desalination plant: A review and theoretical analysis for future directions. <i>Journal of Membrane Science</i> , 2020, 595, 117607.	4.1	154
29	Combined organic and colloidal fouling in forward osmosis: Fouling reversibility and the role of applied pressure. <i>Journal of Membrane Science</i> , 2014, 460, 206-212.	4.1	152
30	Coagulation characteristics of titanium (Ti) salt coagulant compared with aluminum (Al) and iron (Fe) salts. <i>Journal of Hazardous Materials</i> , 2011, 185, 1536-1542.	6.5	147
31	Nanofiltration for water and wastewater treatment – a mini review. <i>Drinking Water Engineering and Science</i> , 2013, 6, 47-53.	0.8	145
32	Preparation of Titanium Dioxide (TiO ₂) from Sludge Produced by Titanium Tetrachloride (TiCl ₄) Flocculation of Wastewater. <i>Environmental Science & Technology</i> , 2007, 41, 1372-1377.	4.6	144
33	Adsorption characteristics of antibiotics trimethoprim on powdered and granular activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 344-349.	2.9	136
34	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. <i>Chemical Engineering Journal</i> , 2014, 256, 155-159.	6.6	134
35	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017, 403, 187-198.	4.0	133
36	Influence of temperature and temperature difference in the performance of forward osmosis desalination process. <i>Journal of Membrane Science</i> , 2012, 415-416, 734-744.	4.1	130

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37	Fouling of ultrafiltration membrane by effluent organic matter: A detailed characterization using different organic fractions in wastewater. <i>Journal of Membrane Science</i> , 2006, 278, 232-238.	4.1	129
38	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. <i>Journal of Membrane Science</i> , 2019, 584, 20-45.	4.1	128
39	Pressure retarded osmosis (PRO) for integrating seawater desalination and wastewater reclamation: Energy consumption and fouling. <i>Journal of Membrane Science</i> , 2015, 483, 34-41.	4.1	126
40	Forward osmosis desalination of brackish groundwater: Meeting water quality requirements for fertigation by integrating nanofiltration. <i>Journal of Membrane Science</i> , 2013, 436, 1-15.	4.1	125
41	Removal of oil from water using magnetic bicomponent composite nanofibers fabricated by electrospinning. <i>Composites Part B: Engineering</i> , 2015, 77, 311-318.	5.9	123
42	Advanced multi-nozzle electrospun functionalized titanium dioxide/polyvinylidene fluoride-co-hexafluoropropylene (TiO ₂ /PVDF-HFP) composite membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017, 524, 712-720.	4.1	123
43	3D printing for membrane separation, desalination and water treatment. <i>Applied Materials Today</i> , 2020, 18, 100486.	2.3	122
44	Review on methodology for determining forward osmosis (FO) membrane characteristics: Water permeability (A), solute permeability (B), and structural parameter (S). <i>Desalination</i> , 2017, 422, 5-16.	4.0	121
45	Novel membrane bioreactor (MBR) coupled with a nonwoven fabric filter for household wastewater treatment. <i>Water Research</i> , 2010, 44, 751-760.	5.3	119
46	Recovery of water and minerals from shale gas produced water by membrane distillation crystallization. <i>Water Research</i> , 2018, 129, 447-459.	5.3	119
47	Thin film composite reverse osmosis membranes prepared via layered interfacial polymerization. <i>Journal of Membrane Science</i> , 2017, 527, 121-128.	4.1	117
48	Engineering the Re-Entrant Hierarchy and Surface Energy of PDMS-PVDF Membrane for Membrane Distillation Using a Facile and Benign Microsphere Coating. <i>Environmental Science & Technology</i> , 2017, 51, 10117-10126.	4.6	114
49	Solar desalination coupled with water remediation and molecular hydrogen production: a novel solar water-energy nexus. <i>Energy and Environmental Science</i> , 2018, 11, 344-353.	15.6	111
50	Osmotic equilibrium in the forward osmosis process: Modelling, experiments and implications for process performance. <i>Journal of Membrane Science</i> , 2014, 453, 240-252.	4.1	110
51	Membrane distillation (MD) integrated with crystallization (MDC) for shale gas produced water (SGPW) treatment. <i>Desalination</i> , 2017, 403, 172-178.	4.0	110
52	Hybrid desalination processes for beneficial use of reverse osmosis brine: Current status and future prospects. <i>Desalination</i> , 2019, 454, 104-111.	4.0	109
53	Fertiliser drawn forward osmosis desalination: the concept, performance and limitations for fertigation. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 147-168.	3.9	108
54	Polyaniline-based adsorbents for aqueous pollutants removal: A review. <i>Chemical Engineering Journal</i> , 2021, 418, 129425.	6.6	108

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55	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 513, 74-84.	4.1	107
56	Dual-layered nanocomposite substrate membrane based on polysulfone/graphene oxide for mitigating internal concentration polarization in forward osmosis. <i>Polymer</i> , 2017, 110, 36-48.	1.8	103
57	Membrane scaling and flux decline during fertiliser-drawn forward osmosis desalination of brackish groundwater. <i>Water Research</i> , 2014, 57, 172-182.	5.3	101
58	Evaluation of fertilizer-drawn forward osmosis for sustainable agriculture and water reuse in arid regions. <i>Journal of Environmental Management</i> , 2017, 187, 137-145.	3.8	99
59	Membrane bioreactor and nanofiltration hybrid system for reclamation of municipal wastewater: Removal of nutrients, organic matter and micropollutants. <i>Bioresource Technology</i> , 2012, 122, 181-188.	4.8	98
60	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016, 389, 129-136.	4.0	97
61	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016, 378, 80-91.	4.0	97
62	Janus membranes for membrane distillation: Recent advances and challenges. <i>Advances in Colloid and Interface Science</i> , 2021, 289, 102362.	7.0	97
63	A review on lithium recovery using electrochemical capturing systems. <i>Desalination</i> , 2021, 500, 114883.	4.0	96
64	Preparation and Characterization of Novel Polytitanium Tetrachloride Coagulant for Water Purification. <i>Environmental Science & Technology</i> , 2013, 47, 12966-12975.	4.6	92
65	Simultaneous phosphorous and nitrogen recovery from source-separated urine: A novel application for fertiliser drawn forward osmosis. <i>Chemosphere</i> , 2018, 203, 482-489.	4.2	91
66	The effect of pretreatment to ultrafiltration of biologically treated sewage effluent: a detailed effluent organic matter (EfOM) characterization. <i>Water Research</i> , 2004, 38, 1933-1939.	5.3	90
67	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018, 52, 2186-2196.	4.6	90
68	Hybrid membrane distillation: Resource, nutrient and energy recovery. <i>Journal of Membrane Science</i> , 2020, 599, 117832.	4.1	90
69	Desalination plants in Australia, review and facts. <i>Desalination</i> , 2009, 247, 1-14.	4.0	88
70	Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , 2016, 903, 13-35.	2.6	87
71	A novel single-pass reverse osmosis configuration for high-purity water production and low energy consumption in seawater desalination. <i>Desalination</i> , 2018, 429, 142-154.	4.0	87
72	Relating Organic Fouling in Membrane Distillation to Intermolecular Adhesion Forces and Interfacial Surface Energies. <i>Environmental Science & Technology</i> , 2018, 52, 14198-14207.	4.6	87

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73	Effect of pretreatment on the fouling of membranes: application in biologically treated sewage effluent. <i>Journal of Membrane Science</i> , 2004, 234, 111-120.	4.1	86
74	Physicochemical pretreatment of seawater: fouling reduction and membrane characterization. <i>Desalination</i> , 2009, 238, 10-21.	4.0	86
75	Chloride-Mediated Enhancement in Heat-Induced Activation of Peroxymonosulfate: New Reaction Pathways for Oxidizing Radical Production. <i>Environmental Science & Technology</i> , 2021, 55, 5382-5392.	4.6	86
76	Fertiliser drawn forward osmosis process: Pilot-scale desalination of mine impaired water for fertigation. <i>Journal of Membrane Science</i> , 2016, 508, 22-31.	4.1	85
77	Adsorption and photocatalysis kinetics of herbicide onto titanium oxide and powdered activated carbon. <i>Separation and Purification Technology</i> , 2008, 58, 335-342.	3.9	84
78	Capacitive deionization (CDI) integrated with monovalent cation selective membrane for producing divalent cation-rich solution. <i>Desalination</i> , 2016, 400, 38-46.	4.0	84
79	Evaluation of poly (aspartic acid sodium salt) as a draw solute for forward osmosis. <i>Water Research</i> , 2015, 80, 294-305.	5.3	83
80	Progress on the Fabrication and Application of Electrospun Nanofiber Composites. <i>Membranes</i> , 2020, 10, 204.	1.4	83
81	Enhancement of fermentative bioenergy (ethanol/hydrogen) production using ultrasonication of <i>Scenedesmus obliquus</i> YSW15 cultivated in swine wastewater effluent. <i>Energy and Environmental Science</i> , 2011, 4, 3513.	15.6	82
82	Effect of hydraulic pressure and membrane orientation on water flux and reverse solute flux in pressure assisted osmosis. <i>Journal of Membrane Science</i> , 2014, 465, 159-166.	4.1	82
83	Preparation and characterization of visible light responsive Fe ₂ O ₃ @TiO ₂ composites. <i>Applied Surface Science</i> , 2011, 257, 5813-5819.	3.1	80
84	Boron transport in forward osmosis: Measurements, mechanisms, and comparison with reverse osmosis. <i>Journal of Membrane Science</i> , 2012, 419-420, 42-48.	4.1	80
85	Macroporous flexible polyvinyl alcohol lithium adsorbent foam composite prepared via surfactant blending and cryo-desiccation. <i>Chemical Engineering Journal</i> , 2015, 280, 536-548.	6.6	80
86	Sources, Distribution, Environmental Fate, and Ecological Effects of Nanomaterials in Wastewater Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 277-318.	6.6	80
87	Mixed matrix nanofiber as a flow-through membrane adsorber for continuous Li ⁺ recovery from seawater. <i>Journal of Membrane Science</i> , 2016, 510, 141-154.	4.1	79
88	Arsenic removal by a membrane hybrid filtration system. <i>Desalination</i> , 2009, 236, 363-369.	4.0	77
89	Pilot-scale evaluation of FO-RO osmotic dilution process for treating wastewater from coal-fired power plant integrated with seawater desalination. <i>Journal of Membrane Science</i> , 2017, 540, 78-87.	4.1	77
90	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. <i>Journal of Environmental Management</i> , 2019, 251, 109524.	3.8	76

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91	Adsorption and photocatalytic degradation of methylene blue over hydrogen-titanate nanofibres produced by a peroxide method. <i>Water Research</i> , 2013, 47, 4115-4125.	5.3	75
92	Potential and performance of a polydopamine-coated multiwalled carbon nanotube/polysulfone nanocomposite membrane for ultrafiltration application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 364-373.	2.9	75
93	Treatment of industrial wastewater produced by desulfurization process in a coal-fired power plant via FO-MD hybrid process. <i>Chemosphere</i> , 2018, 210, 44-51.	4.2	75
94	Pressure assisted fertiliser drawn osmosis process to enhance final dilution of the fertiliser draw solution beyond osmotic equilibrium. <i>Journal of Membrane Science</i> , 2015, 481, 63-72.	4.1	74
95	A novel electrospun, hydrophobic, and elastomeric styrene-butadiene-styrene membrane for membrane distillation applications. <i>Journal of Membrane Science</i> , 2018, 549, 420-427.	4.1	74
96	Techno-economic feasibility of recovering phosphorus, nitrogen and water from dilute human urine via forward osmosis. <i>Water Research</i> , 2019, 150, 47-55.	5.3	74
97	Influence of Flocculation and Adsorption as Pretreatment on the Fouling of Ultrafiltration and Nanofiltration Membranes: Application with Biologically Treated Sewage Effluent. <i>Environmental Science & Technology</i> , 2005, 39, 3864-3871.	4.6	73
98	Biotoxicity of nanoparticles: effect of natural organic matter. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3051-3061.	0.8	73
99	Open porous hydrophilic supported thin-film composite forward osmosis membrane via co-casting for treatment of high-salinity wastewater. <i>Desalination</i> , 2017, 405, 76-84.	4.0	72
100	Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. <i>Desalination</i> , 2019, 459, 10-19.	4.0	72
101	Recent transitions in ultrapure water (UPW) technology: Rising role of reverse osmosis (RO). <i>Desalination</i> , 2016, 399, 185-197.	4.0	71
102	Organic fouling mechanisms in forward osmosis membrane process under elevated feed and draw solution temperatures. <i>Desalination</i> , 2015, 355, 169-177.	4.0	70
103	Environmental and economic impacts of fertilizer drawn forward osmosis and nanofiltration hybrid system. <i>Desalination</i> , 2017, 416, 76-85.	4.0	70
104	Fertilizer drawn forward osmosis process for sustainable water reuse to grow hydroponic lettuce using commercial nutrient solution. <i>Separation and Purification Technology</i> , 2017, 181, 18-28.	3.9	70
105	A systematic approach to determine the fouling index for a RO/NF membrane process. <i>Desalination</i> , 2009, 238, 117-127.	4.0	69
106	Effect of solution chemistry on organic fouling of reverse osmosis membranes in seawater desalination. <i>Journal of Membrane Science</i> , 2010, 351, 205-213.	4.1	69
107	Effect of photocatalysis on the membrane hybrid system for wastewater treatment. <i>Desalination</i> , 2008, 225, 235-248.	4.0	68
108	Polyelectrolyte-promoted forward osmosis process for dye wastewater treatment – Exploring the feasibility of using polyacrylamide as draw solute. <i>Chemical Engineering Journal</i> , 2015, 264, 32-38.	6.6	68

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109	Membrane capacitive deionization-reverse electrodialysis hybrid system for improving energy efficiency of reverse osmosis seawater desalination. <i>Desalination</i> , 2019, 462, 19-28.	4.0	68
110	Characterisation of Fe-oxide nanoparticles coated with humic acid and Suwannee River natural organic matter. <i>Science of the Total Environment</i> , 2013, 461-462, 19-27.	3.9	67
111	Energy efficient 3D printed column type feed spacer for membrane filtration. <i>Water Research</i> , 2019, 164, 114961.	5.3	67
112	Selection of suitable fertilizer draw solute for a novel fertilizer-drawn forward osmosis anaerobic membrane bioreactor hybrid system. <i>Bioresource Technology</i> , 2016, 210, 26-34.	4.8	66
113	Surface modification of thin-film composite forward osmosis membranes with polyvinyl alcohol graphene oxide composite hydrogels for antifouling properties. <i>Desalination</i> , 2020, 491, 114591.	4.0	66
114	A pilot-scale hybrid municipal wastewater reclamation system using combined coagulation and disk filtration, ultrafiltration, and reverse osmosis: Removal of nutrients and micropollutants, and characterization of membrane foulants. <i>Bioresource Technology</i> , 2013, 141, 109-116.	4.8	64
115	Fouling characteristics of a membrane bioreactor and nanofiltration hybrid system for municipal wastewater reclamation. <i>Bioresource Technology</i> , 2013, 130, 239-247.	4.8	64
116	Improving the feasibility and applicability of flow-electrode capacitive deionization (FCDI): Review of process optimization and energy efficiency. <i>Desalination</i> , 2021, 502, 114930.	4.0	64
117	Applications of nano-porous graphene materials critical review on performance and challenges. <i>Materials Horizons</i> , 2020, 7, 1218-1245.	6.4	64
118	Recent Advances in Osmotic Energy Generation via Pressure-Retarded Osmosis (PRO): A Review. <i>Energies</i> , 2015, 8, 11821-11845.	1.6	63
119	Continuous lithium mining from aqueous resources by an adsorbent filter with a 3D polymeric nanofiber network infused with ion sieves. <i>Chemical Engineering Journal</i> , 2017, 309, 49-62.	6.6	62
120	Analysis of first flush to improve the water quality in rainwater tanks. <i>Water Science and Technology</i> , 2010, 61, 421-428.	1.2	61
121	Forward osmosis membrane modular configurations for osmotic dilution of seawater by forward osmosis and reverse osmosis hybrid system. <i>Water Research</i> , 2018, 128, 183-192.	5.3	61
122	Novel CA/PVDF nanofiber supports strategically designed via coaxial electrospinning for high performance thin-film composite forward osmosis membranes for desalination. <i>Desalination</i> , 2018, 445, 63-74.	4.0	61
123	Practical considerations for operability of an 8 m ³ spiral wound forward osmosis module: Hydrodynamics, fouling behaviour and cleaning strategy. <i>Desalination</i> , 2017, 404, 249-258.	4.0	60
124	Optimisation of a forward osmosis and membrane distillation hybrid system for the treatment of source-separated urine. <i>Separation and Purification Technology</i> , 2019, 212, 368-375.	3.9	60
125	Mechanical performance of multiscale basalt fiber epoxy laminates containing tourmaline micro/nano particles. <i>Composites Part B: Engineering</i> , 2014, 58, 611-617.	5.9	59
126	Aggregation behaviour of engineered nanoparticles in natural waters: Characterising aggregate structure using on-line laser light scattering. <i>Journal of Hazardous Materials</i> , 2015, 284, 190-200.	6.5	59

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127	Sustainable dewatering of grapefruit juice through forward osmosis: Improving membrane performance, fouling control, and product quality. <i>Journal of Membrane Science</i> , 2019, 578, 53-60.	4.1	59
128	Comparison of coagulation behavior and floc characteristics of titanium tetrachloride (TiCl ₄) and polyaluminum chloride (PACl) with surface water treatment. <i>Chemical Engineering Journal</i> , 2011, 166, 544-550.	6.6	58
129	Comparison of a novel polytitanium chloride coagulant with polyaluminium chloride: Coagulation performance and floc characteristics. <i>Journal of Environmental Management</i> , 2015, 147, 194-202.	3.8	58
130	Fouling evaluation and mechanisms in a FO-RO hybrid process for direct potable reuse. <i>Journal of Membrane Science</i> , 2016, 520, 89-98.	4.1	58
131	Hybrid forward osmosis-reverse osmosis for wastewater reuse and seawater desalination: Understanding the optimal feed solution to minimise fouling. <i>Chemical Engineering Research and Design</i> , 2018, 117, 523-532.	2.7	58
132	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020, 484, 114421.	4.0	58
133	New industrial application of forward osmosis (FO): Precious metal recovery from printed circuit board (PCB) plant wastewater. <i>Journal of Membrane Science</i> , 2018, 552, 234-242.	4.1	57
134	Reuse of municipal wastewater via membrane capacitive deionization using ion-selective polymer-coated carbon electrodes in pilot-scale. <i>Chemical Engineering Journal</i> , 2019, 372, 241-250.	6.6	57
135	Synthesis and characterization of multi-walled carbon nanotubes-supported dibenzo-14-crown-4 ether with proton ionizable carboxyl sidearm as Li ⁺ adsorbents. <i>Chemical Engineering Journal</i> , 2015, 264, 89-98.	6.6	56
136	Membrane capacitive deionisation as an alternative to the 2nd pass for seawater reverse osmosis desalination plant for bromide removal. <i>Desalination</i> , 2018, 433, 113-119.	4.0	56
137	Environmental and economic assessment of hybrid FO-RO/NF system with selected inorganic draw solutes for the treatment of mine impaired water. <i>Desalination</i> , 2018, 429, 96-104.	4.0	56
138	Chemical coupling of photocatalysis with flocculation and adsorption in the removal of organic matter. <i>Water Research</i> , 2005, 39, 2549-2558.	5.3	55
139	Preparation and Characterization of Titanium Dioxide (TiO ₂) from Sludge produced by TiCl ₄ Flocculation with FeCl ₃ , Al ₂ (SO ₄) ₃ and Ca(OH) ₂ Coagulant Aids in Wastewater. <i>Separation Science and Technology</i> , 2009, 44, 1525-1543.	1.3	55
140	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. <i>Desalination</i> , 2018, 440, 146-155.	4.0	55
141	Evaluation of fertilizer-drawn forward osmosis for coal seam gas reverse osmosis brine treatment and sustainable agricultural reuse. <i>Journal of Membrane Science</i> , 2017, 537, 22-31.	4.1	54
142	Coagulation performance and floc characteristics of polytitanium tetrachloride (PTC) compared with titanium tetrachloride (TiCl ₄) and ferric chloride (FeCl ₃) in algal turbid water. <i>Separation and Purification Technology</i> , 2017, 175, 99-106.	3.9	54
143	Fabrication of high performance and durable forward osmosis membranes using mussel-inspired polydopamine-modified polyethylene supports. <i>Journal of Membrane Science</i> , 2019, 584, 89-99.	4.1	54
144	Aquatic toxicity evaluation of TiO ₂ nanoparticle produced from sludge of TiCl ₄ flocculation of wastewater and seawater. <i>Journal of Nanoparticle Research</i> , 2009, 11, 2087-2096.	0.8	53

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145	Assessing the removal of organic micro-pollutants from anaerobic membrane bioreactor effluent by fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017, 533, 84-95.	4.1	53
146	Phosphorus removal mechanisms from domestic wastewater by membrane capacitive deionization and system optimization for enhanced phosphate removal. <i>Chemical Engineering Research and Design</i> , 2019, 126, 44-52.	2.7	53
147	Cationic polyacrylamide as coagulant aid with titanium tetrachloride for low molecule organic matter removal. <i>Journal of Hazardous Materials</i> , 2013, 258-259, 84-92.	6.5	52
148	Salinity gradient energy generation by pressure retarded osmosis: A review. <i>Desalination</i> , 2021, 500, 114841.	4.0	52
149	Preparation, characterization and application of low-cost pyrophyllite-alumina composite ceramic membranes for treating low-strength domestic wastewater. <i>Journal of Membrane Science</i> , 2017, 536, 108-115.	4.1	51
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