

Sherub Phuntsho

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150
papers

5,126
citations

40
h-index

66
g-index

154
ext. papers

6,033
ext. citations

9.1
avg, IF

6.04
L-index

#	Paper	IF	Citations
150	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	9.6	329
149	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. <i>Journal of Membrane Science</i> , 2016 , 497, 430-449	9.6	231
148	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		205
147	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	9.6	178
146	Blended fertilizers as draw solutions for fertilizer-drawn forward osmosis desalination. <i>Environmental Science & Technology</i> , 2012 , 46, 4567-75	10.3	146
145	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	14.7	128
144	CF4 plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 529, 234-242	9.6	124
143	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	10.3	106
142	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	9.6	103
141	Nanofiltration for water and wastewater treatment [a mini review]. <i>Drinking Water Engineering and Science</i> , 2013 , 6, 47-53	2	101
140	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	9.6	99
139	Membrane scaling and flux decline during fertiliser-drawn forward osmosis desalination of brackish groundwater. <i>Water Research</i> , 2014 , 57, 172-82	12.5	91
138	Osmotic equilibrium in the forward osmosis process: Modelling, experiments and implications for process performance. <i>Journal of Membrane Science</i> , 2014 , 453, 240-252	9.6	91
137	Fertiliser drawn forward osmosis desalination: the concept, performance and limitations for fertigation. <i>Reviews in Environmental Science and Biotechnology</i> , 2012 , 11, 147-168	13.9	91
136	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016 , 389, 129-136	10.3	88
135	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	3.9	83
134	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. <i>Journal of Membrane Science</i> , 2019 , 584, 20-45	9.6	80

133	Fertiliser drawn forward osmosis process: Pilot-scale desalination of mine impaired water for fertigation. <i>Journal of Membrane Science</i> , 2016 , 508, 22-31	9.6	71
132	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	7.9	71
131	Preparation and characterization of novel polytitanium tetrachloride coagulant for water purification. <i>Environmental Science & Technology</i> , 2013 , 47, 12966-75	10.3	67
130	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	9.6	65
129	Simultaneous phosphorous and nitrogen recovery from source-separated urine: A novel application for fertiliser drawn forward osmosis. <i>Chemosphere</i> , 2018 , 203, 482-489	8.4	60
128	Effect of photocatalysis on the membrane hybrid system for wastewater treatment. <i>Desalination</i> , 2008 , 225, 235-248	10.3	60
127	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	11	59
126	Practical considerations for operability of an 8? spiral wound forward osmosis module: Hydrodynamics, fouling behaviour and cleaning strategy. <i>Desalination</i> , 2017 , 404, 249-258	10.3	55
125	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	10.2	54
124	Environmental and economic impacts of fertilizer drawn forward osmosis and nanofiltration hybrid system. <i>Desalination</i> , 2017 , 416, 76-85	10.3	52
123	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	12.8	52
122	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	7.9	52
121	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	8.3	48
120	Techno-economic feasibility of recovering phosphorus, nitrogen and water from dilute human urine via forward osmosis. <i>Water Research</i> , 2019 , 150, 47-55	12.5	48
119	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	8.3	48
118	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	12.5	47
117	Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. <i>Desalination</i> , 2019 , 459, 10-19	10.3	45
116	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	12.8	45

115	Investigation of pilot-scale 8040 FO membrane module under different operating conditions for brackish water desalination. <i>Desalination and Water Treatment</i> , 2015 , 53, 2782-2791		44
114	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	9.6	43
113	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	9.6	42
112	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	10.3	42
111	Coagulation and sludge recovery using titanium tetrachloride as coagulant for real water treatment: A comparison against traditional aluminum and iron salts. <i>Separation and Purification Technology</i> , 2014 , 130, 19-27	8.3	40
110	Thin film composite hollow fibre forward osmosis membrane module for the desalination of brackish groundwater for fertigation. <i>Desalination</i> , 2015 , 364, 108-118	10.3	39
109	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	10.3	38
108	Energy efficient 3D printed column type feed spacer for membrane filtration. <i>Water Research</i> , 2019 , 164, 114961	12.5	38
107	Assessing the aggregation behaviour of iron oxide nanoparticles under relevant environmental conditions using a multi-method approach. <i>Water Research</i> , 2013 , 47, 4585-99	12.5	37
106	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020 , 484, 114421	10.3	36
105	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	10.3	36
104	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	14.7	34
103	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. <i>Bioresource Technology</i> , 2018 , 262, 98-106	11	34
102	Dual-layered nanocomposite membrane incorporating graphene oxide and halloysite nanotube for high osmotic power density and fouling resistance. <i>Journal of Membrane Science</i> , 2018 , 564, 382-393	9.6	34
101	Defect-free outer-selective hollow fiber thin-film composite membranes for forward osmosis applications. <i>Journal of Membrane Science</i> , 2019 , 586, 281-291	9.6	33
100	Forward osmosis system analysis for optimum design and operating conditions. <i>Water Research</i> , 2018 , 145, 429-441	12.5	32
99	Understanding the possible underlying mechanisms for low fouling tendency of the forward osmosis and pressure assisted osmosis processes. <i>Desalination</i> , 2017 , 421, 89-98	10.3	31
98	Coagulation performance and floc characteristics of polytitanium tetrachloride and titanium tetrachloride compared with ferric chloride for coal mining wastewater treatment. <i>Separation and Purification Technology</i> , 2015 , 152, 94-100	8.3	30

97	Coagulation by titanium tetrachloride for fulvic acid removal: Factors influencing coagulation efficiency and floc characteristics. <i>Desalination</i> , 2014 , 335, 70-77	10.3	30
96	Palladium Recovery through Membrane Capacitive Deionization from Metal Plating Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1692-1701	8.3	30
95	Thin-film composite membrane on a compacted woven backing fabric for pressure assisted osmosis. <i>Desalination</i> , 2017 , 406, 98-108	10.3	29
94	Efficient fouling control using outer-selective hollow fiber thin-film composite membranes for osmotic membrane bioreactor applications. <i>Bioresource Technology</i> , 2019 , 282, 9-17	11	29
93	Modification of Nanofiber Support Layer for Thin Film Composite forward Osmosis Membranes via Layer-by-Layer Polyelectrolyte Deposition. <i>Membranes</i> , 2018 , 8,	3.8	29
92	Thin-film composite hollow fiber membranes incorporated with graphene oxide in polyethersulfone support layers for enhanced osmotic power density. <i>Desalination</i> , 2019 , 464, 63-75	10.3	28
91	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	5.5	27
90	Membrane autopsy of a 10year old hollow fibre membrane from Sydney Olympic Park water reclamation plant. <i>Desalination</i> , 2011 , 271, 241-247	10.3	27
89	Methane production in an anaerobic osmotic membrane bioreactor using forward osmosis: Effect of reverse salt flux. <i>Bioresource Technology</i> , 2017 , 239, 285-293	11	26
88	Studying municipal solid waste generation and composition in the urban areas of Bhutan. <i>Waste Management and Research</i> , 2010 , 28, 545-51	4	26
87	Influence of fertilizer draw solution properties on the process performance and microbial community structure in a side-stream anaerobic fertilizer-drawn forward osmosis - ultrafiltration bioreactor. <i>Bioresource Technology</i> , 2017 , 240, 149-156	11	25
86	Performance of a novel baffled osmotic membrane bioreactor-microfiltration hybrid system under continuous operation for simultaneous nutrient removal and mitigation of brine discharge. <i>Bioresource Technology</i> , 2017 , 240, 50-58	11	25
85	Fertilizer-drawn forward osmosis for irrigation of tomatoes. <i>Desalination and Water Treatment</i> , 2015 , 53, 2746-2759		25
84	Boron transport through polyamide-based thin film composite forward osmosis membranes. <i>Desalination</i> , 2014 , 340, 11-17	10.3	25
83	Influence of the process parameters on hollow fiber-forward osmosis membrane performances. <i>Desalination and Water Treatment</i> , 2015 , 54, 817-828		25
82	Forward osmosis for the treatment of reverse osmosis concentrate from water reclamation: process performance and fouling control. <i>Water Science and Technology</i> , 2014 , 69, 2431-7	2.2	25
81	Pilot-scale nanofiltration system as post-treatment for fertilizer-drawn forward osmosis desalination for direct fertigation. <i>Desalination and Water Treatment</i> , 2013 , 51, 6265-6273		25
80	Human urine as a forward osmosis draw solution for the application of microalgae dewatering. <i>Journal of Hazardous Materials</i> , 2019 , 378, 120724	12.8	24

79	Assessing membrane fouling potential of humic acid using flow field-flow fractionation. <i>Journal of Membrane Science</i> , 2011 , 373, 64-73	9.6	24
78	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	10.3	23
77	Performance comparison of thin-film composite forward osmosis membranes. <i>Desalination and Water Treatment</i> , 2013 , 51, 6274-6280		23
76	Impact of reverse nutrient diffusion on membrane biofouling in fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017 , 539, 108-115	9.6	22
75	Salinity gradient energy generation by pressure retarded osmosis: A review. <i>Desalination</i> , 2021 , 500, 114841	10.3	21
74	The effect of Schiff base network on the separation performance of thin film nanocomposite forward osmosis membranes. <i>Separation and Purification Technology</i> , 2019 , 217, 284-293	8.3	20
73	Concentrating underground brine by FO process: Influence of membrane types and spacer on membrane scaling. <i>Chemical Engineering Journal</i> , 2016 , 285, 92-100	14.7	19
72	Pilot-scale membrane capacitive deionisation for effective bromide removal and high water recovery in seawater desalination. <i>Desalination</i> , 2020 , 479, 114309	10.3	19
71	Techno-economic assessment of fertiliser drawn forward osmosis process for greenwall plants from urban wastewater. <i>Chemical Engineering Research and Design</i> , 2019 , 127, 180-188	5.5	18
70	Size-controlled graphene oxide for highly permeable and fouling-resistant outer-selective hollow fiber thin-film composite membranes for forward osmosis. <i>Journal of Membrane Science</i> , 2020 , 609, 118171	9.6	18
69	A closed-loop forward osmosis-nanofiltration hybrid system: Understanding process implications through full-scale simulation. <i>Desalination</i> , 2017 , 421, 169-178	10.3	17
68	Removal of natural organic matter by titanium tetrachloride: The effect of total hardness and ionic strength. <i>Journal of Environmental Management</i> , 2014 , 134, 20-9	7.9	17
67	Preparation of titanium dioxide nanoparticles from electrocoagulated sludge using sacrificial titanium electrodes. <i>Environmental Science & Technology</i> , 2010 , 44, 5553-7	10.3	17
66	Solar-powered electrocoagulation system for water and wastewater treatment. <i>Desalination and Water Treatment</i> , 2011 , 32, 381-388		17
65	Sulfur-containing air pollutants as draw solution for fertilizer drawn forward osmosis desalination process for irrigation use. <i>Desalination</i> , 2017 , 424, 1-9	10.3	16
64	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2019 , 248, 109240	7.9	16
63	Comparative study of floc characteristics with titanium tetrachloride against conventional coagulants: Effect of coagulant dose, solution pH, shear force and break-up period. <i>Chemical Engineering Journal</i> , 2013 , 233, 70-79	14.7	16
62	Covalent organic framework incorporated outer-selective hollow fiber thin-film nanocomposite membranes for osmotically driven desalination. <i>Desalination</i> , 2020 , 485, 114461	10.3	15

61	Evaluating the effect of different draw solutes in a baffled osmotic membrane bioreactor-microfiltration using optical coherence tomography with real wastewater. <i>Bioresource Technology</i> , 2018 , 263, 306-316	11	15
60	GreenPRO: A novel fertiliser-driven osmotic power generation process for fertigation. <i>Desalination</i> , 2018 , 447, 158-166	10.3	15
59	Sanitation and dewatering of human urine via membrane bioreactor and membrane distillation and its reuse for fertigation. <i>Journal of Cleaner Production</i> , 2020 , 270, 122390	10.3	14
58	Efficient recovery of nitrate from municipal wastewater via MCDI using anion-exchange polymer coated electrode embedded with nitrate selective resin. <i>Desalination</i> , 2020 , 484, 114425	10.3	14
57	Performance of a Novel Fertilizer-Drawn Forward Osmosis Aerobic Membrane Bioreactor (FDFO-MBR): Mitigating Salinity Build-Up by Integrating Microfiltration. <i>Water (Switzerland)</i> , 2017 , 9, 21	3	14
56	A new sponge tray bioreactor in primary treated sewage effluent treatment. <i>Bioresource Technology</i> , 2011 , 102, 5444-7	11	14
55	Enhanced water permeability and osmotic power generation with sulfonate-functionalized porous polymer-incorporated thin film nanocomposite membranes. <i>Desalination</i> , 2020 , 496, 114756	10.3	14
54	Removal of Organic Micro-Pollutants by Conventional Membrane Bioreactors and High-Retention Membrane Bioreactors. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2969	2.6	13
53	Polytitanium sulfate (PTS): Coagulation application and Ti species detection. <i>Journal of Environmental Sciences</i> , 2017 , 52, 250-258	6.4	12
52	Combining high performance fertiliser with surfactants to reduce the reverse solute flux in the fertiliser drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2018 , 226, 217-225	7.9	12
51	Performances of PA hollow fiber membrane with the CTA flat sheet membrane for forward osmosis process. <i>Desalination and Water Treatment</i> , 2015 , 53, 1744-1754		11
50	Polyvinylidene fluoride phase design by two-dimensional boron nitride enables enhanced performance and stability for seawater desalination. <i>Journal of Membrane Science</i> , 2020 , 598, 117669	9.6	11
49	Urine Treatment on the International Space Station: Current Practice and Novel Approaches. <i>Membranes</i> , 2020 , 10,	3.8	11
48	Wastewater management in urban Bhutan: Assessing the current practices and challenges. <i>Chemical Engineering Research and Design</i> , 2019 , 132, 82-93	5.5	10
47	Conceptual design of a dynamic turbospacer for efficient low pressure membrane filtration. <i>Desalination</i> , 2020 , 496, 114712	10.3	10
46	Impact of source-separation of urine on effluent quality, energy consumption and greenhouse gas emissions of a decentralized wastewater treatment plant. <i>Chemical Engineering Research and Design</i> , 2021 , 150, 298-304	5.5	10
45	Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. <i>Desalination</i> , 2021 , 516, 115222	10.3	9
44	Understanding the risk of scaling and fouling in hollow fiber forward osmosis membrane application. <i>Chemical Engineering Research and Design</i> , 2016 , 104, 452-464	5.5	8

43	Characterization of coagulation behavior of titanium tetrachloride coagulant for high and low molecule weight natural organic matter removal: The effect of second dosing. <i>Chemical Engineering Journal</i> , 2013 , 228, 516-525	14.7	8
42	A study on the influence of ionic strength on the elution behaviour of membrane organic foulant using advanced separation tools. <i>Desalination and Water Treatment</i> , 2009 , 11, 38-45		8
41	Fouling and performance of outer selective hollow fiber membrane in osmotic membrane bioreactor: Cross flow and air scouring effects. <i>Bioresource Technology</i> , 2020 , 295, 122303	11	8
40	Simultaneous nitrification-denitrification using baffled osmotic membrane bioreactor-microfiltration hybrid system at different oxic-anoxic conditions for wastewater treatment. <i>Journal of Environmental Management</i> , 2020 , 253, 109685	7.9	8
39	Employing the synergistic effect between aquaporin nanostructures and graphene oxide for enhanced separation performance of thin-film nanocomposite forward osmosis membranes. <i>Desalination</i> , 2021 , 498, 114795	10.3	8
38	Effect of Brine Water on Discharge of Cations in Membrane Capacitive Deionization and Its Implications on Nitrogen Recovery from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11474-11484	8.3	7
37	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. <i>Water Research</i> , 2020 , 186, 116320	12.5	7
36	Free-standing, thin-film, symmetric membranes: Next-generation membranes for engineered osmosis. <i>Journal of Membrane Science</i> , 2020 , 607, 118145	9.6	7
35	Fabricating robust thin film composite membranes reinforced on woven mesh backing fabric support for pressure assisted and forward osmosis: A dataset. <i>Data in Brief</i> , 2018 , 21, 364-370	1.2	7
34	Forward osmosis system design and optimization using a commercial cellulose triacetate hollow fibre membrane module for energy efficient desalination. <i>Desalination</i> , 2021 , 510, 115075	10.3	7
33	Removal of pharmaceuticals from nitrified urine. <i>Chemosphere</i> , 2021 , 280, 130870	8.4	7
32	Bromide and iodide selectivity in membrane capacitive deionisation, and its potential application to reduce the formation of disinfection by-products in water treatment. <i>Chemosphere</i> , 2019 , 234, 536-544	8.4	6
31	Stability of Fe-oxide nanoparticles coated with natural organic matter under relevant environmental conditions. <i>Water Science and Technology</i> , 2014 , 70, 2040-6	2.2	6
30	Role of various physical and chemical techniques for hollow fibre forward osmosis membrane cleaning. <i>Desalination and Water Treatment</i> , 2016 , 57, 7742-7752		5
29	Surface water treatment benefits from the presence of algae: Influence of algae on the coagulation behavior of polytitanium chloride. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	5
28	Enhanced Coagulation of Titanium Tetrachloride Aided by the Modified Compound Biofloculant. <i>Journal of Environmental Engineering, ASCE</i> , 2015 , 141, 04015016	2	4
27	Performance evaluation of microfiltration with electrocoagulation and chemical coagulation pretreatment. <i>Desalination and Water Treatment</i> , 2011 , 34, 141-149		4
26	Effect of initial feed and draw flowrates on performance of an 8040 spiral-wound forward osmosis membrane element		4

25	Nanofiltration for water and wastewater treatment 1b mini review		4
24	In situ ultrathin silica layer formation on polyamide thin-film composite membrane surface for enhanced forward osmosis performances. <i>Journal of Membrane Science</i> , 2021 , 620, 118876	9.6	4
23	Draw Solutes in Forward Osmosis Processes 2015 , 85-113		3
22	Factors Affecting the Performances of Forward Osmosis Desalination Process. <i>Procedia Engineering</i> , 2012 , 44, 1449-1451		3
21	Membrane bioreactors for the removal of micro-pollutants 2020 , 231-252		2
20	Electrocoagulation and crossflow microfiltration hybrid system: fouling investigation. <i>Desalination and Water Treatment</i> , 2012 , 43, 253-259		2
19	Determination of the Apparent Charge of Natural Organic Matter. <i>Separation Science and Technology</i> , 2010 , 45, 339-345	2.5	2
18	Physical, Chemical, and Biological Characterization of Membrane Fouling 2012 , 457-503		2
17	Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 642, 119943	9.6	2
16	Effect of graphene oxide quantum dots on the interfacial polymerization of a thin-film nanocomposite forward osmosis membrane: An experimental and molecular dynamics study. <i>Journal of Membrane Science</i> , 2021 , 630, 119309	9.6	2
15	Exploring shredded waste PET bottles as a biofilter media for improved on-site sanitation. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 370-381	5.5	2
14	Control of the antagonistic effects of heat-assisted chlorine oxidative degradation on pressure retarded osmosis thin film composite membrane surface. <i>Journal of Membrane Science</i> , 2021 , 636, 119587	8.6	2
13	Dynamic feed spacer for fouling minimization in forward osmosis process. <i>Desalination</i> , 2021 , 515, 115198	8.3	2
12	Fertiliser-Drawn Forward Osmosis Desalination for Fertigation 2015 , 395-426		1
11	Removal of pharmaceutical compounds from synthetic hydrolysed urine using granular activated carbon: Column study and predictive modelling. <i>Journal of Water Process Engineering</i> , 2022 , 45, 102480	6.7	1
10	Submerged module of outer selective hollow fiber membrane for effective fouling mitigation in osmotic membrane bioreactor for desalination. <i>Desalination</i> , 2020 , 496, 114707	10.3	1
9	Critical flux on a submerged membrane bioreactor for nitrification of source separated urine. <i>Chemical Engineering Research and Design</i> , 2021 , 153, 518-526	5.5	1
8	Submerged versus side-stream osmotic membrane bioreactors using an outer-selective hollow fiber osmotic membrane for desalination. <i>Desalination</i> , 2021 , 515, 115196	10.3	1

7	Electrode for selective bromide removal in membrane capacitive deionisation. <i>Chemosphere</i> , 2022 , 287, 132169	8.4	1
6	Novel organic solvent nanofiltration membrane based on inkjet printing-assisted layer-by-layer assembly. <i>Journal of Membrane Science</i> , 2022 , 655, 120582	9.6	1
5	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. <i>Water Research</i> , 2021 , 207, 117810	12.5	0
4	On-site domestic wastewater treatment system using shredded waste plastic bottles as biofilter media: Pilot-scale study on effluent standards in Bhutan. <i>Chemosphere</i> , 2022 , 286, 131729	8.4	0
3	Impact of source-separation of urine on treatment capacity, process design, and capital expenditure of a decentralised wastewater treatment plant.. <i>Chemosphere</i> , 2022 , 134489	8.4	0
2	Introduction: Role of Membrane Science and Technology and Forward Osmosis Processes 2015 , 1-14		
1	MONO/DI-ammonium phosphate fertilizers as draw solutions for forward osmosis desalination. <i>IDA Journal of Desalination and Water Reuse</i> , 2013 , 5, 34-39		