

Ho Kyong Shon

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

508
papers

20,157
citations

69
h-index

118
g-index

536
ext. papers

23,417
ext. citations

8.7
avg, IF

7.48
L-index

#	Paper	IF	Citations
508	Chemical and physical aspects of natural organic matter (NOM) fouling of nanofiltration membranes. <i>Journal of Membrane Science</i> , 1997 , 132, 159-181	9.6	1011
507	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	9.6	900
506	Fouling and its control in membrane distillation: A review. <i>Journal of Membrane Science</i> , 2015 , 475, 215-246	9.6	581
505	Comparison of fouling behavior in forward osmosis (FO) and reverse osmosis (RO). <i>Journal of Membrane Science</i> , 2010 , 365, 34-39	9.6	568
504	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	9.6	459
503	Effluent Organic Matter (EfOM) in Wastewater: Constituents, Effects, and Treatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2006 , 36, 327-374	11.1	403
502	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
501	Membrane-based processes for wastewater nutrient recovery: Technology, challenges, and future direction. <i>Water Research</i> , 2016 , 89, 210-21	12.5	294
500	Recent progress of membrane distillation using electrospun nanofibrous membrane. <i>Journal of Membrane Science</i> , 2014 , 453, 435-462	9.6	263
499	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 502, 158-170	9.6	256
498	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
497	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
496	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	10	194
495	Fouling control in a forward osmosis process integrating seawater desalination and wastewater reclamation. <i>Journal of Membrane Science</i> , 2013 , 444, 148-156	9.6	188
494	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
493	Applications of capacitive deionization: Desalination, softening, selective removal, and energy efficiency. <i>Desalination</i> , 2019 , 449, 118-130	10.3	157
492	Colloidal fouling in forward osmosis: Role of reverse salt diffusion. <i>Journal of Membrane Science</i> , 2012 , 390-391, 277-284	9.6	156

491	Blended fertilizers as draw solutions for fertilizer-drawn forward osmosis desalination. <i>Environmental Science & Technology</i> , 2012 , 46, 4567-75	10.3	146
490	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 520, 99-110	9.6	144
489	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	9.6	137
488	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018 , 9, 683	17.4	135
487	Electrospun nanofiber membranes incorporating fluorosilane-coated TiO ₂ nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 520, 145-154	9.6	135
486	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
485	Preparation of titanium dioxide (TiO ₂) from sludge produced by titanium tetrachloride (TiCl ₄) flocculation of wastewater. <i>Environmental Science & Technology</i> , 2007 , 41, 1372-7	10.3	128
484	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	9.6	124
483	Coagulation characteristics of titanium (Ti) salt coagulant compared with aluminum (Al) and iron (Fe) salts. <i>Journal of Hazardous Materials</i> , 2011 , 185, 1536-42	12.8	123
482	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	9.6	122
481	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	9.6	116
480	Adsorption characteristics of antibiotics trimethoprim on powdered and granular activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2010 , 16, 344-349	6.3	116
479	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. <i>Chemical Engineering Journal</i> , 2014 , 256, 155-159	14.7	112
478	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017 , 403, 187-198	10.3	107
477	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020 , 479, 114312	10.3	106
476	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
475	Removal of oil from water using magnetic bicomponent composite nanofibers fabricated by electrospinning. <i>Composites Part B: Engineering</i> , 2015 , 77, 311-318	10	104
474	Novel membrane bioreactor (MBR) coupled with a nonwoven fabric filter for household wastewater treatment. <i>Water Research</i> , 2010 , 44, 751-60	12.5	104

473	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
472	Nanofiltration for water and wastewater treatment [a] mini review. <i>Drinking Water Engineering and Science</i> , 2013 , 6, 47-53	2	101
471	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	9.6	99
470	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
469	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. <i>Desalination</i> , 2020 , 485, 114455	10.3	98
468	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
467	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
466	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
465	Effect of sulphonated polyethersulfone substrate for thin film composite forward osmosis membrane. <i>Desalination</i> , 2016 , 389, 129-136	10.3	88
464	The effect of pretreatment to ultrafiltration of biologically treated sewage effluent: a detailed effluent organic matter (EfOM) characterization. <i>Water Research</i> , 2004 , 38, 1933-9	12.5	87
463	Membrane distillation (MD) integrated with crystallization (MDC) for shale gas produced water (SGPW) treatment. <i>Desalination</i> , 2017 , 403, 172-178	10.3	85
462	Membrane bioreactor and nanofiltration hybrid system for reclamation of municipal wastewater: removal of nutrients, organic matter and micropollutants. <i>Bioresource Technology</i> , 2012 , 122, 181-8	11	84
461	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
460	Recovery of water and minerals from shale gas produced water by membrane distillation crystallization. <i>Water Research</i> , 2018 , 129, 447-459	12.5	83
459	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	10.3	82
458	Thin film composite reverse osmosis membranes prepared via layered interfacial polymerization. <i>Journal of Membrane Science</i> , 2017 , 527, 121-128	9.6	80
457	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
456	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	9.6	80

455	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	9.6	80
454	Hybrid desalination processes for beneficial use of reverse osmosis brine: Current status and future prospects. <i>Desalination</i> , 2019 , 454, 104-111	10.3	78
453	Physicochemical pretreatment of seawater: fouling reduction and membrane characterization. <i>Desalination</i> , 2009 , 238, 10-21	10.3	77
452	Desalination plants in Australia, review and facts. <i>Desalination</i> , 2009 , 247, 1-14	10.3	77
451	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	10.3	76
450	Adsorption and photocatalysis kinetics of herbicide onto titanium oxide and powdered activated carbon. <i>Separation and Purification Technology</i> , 2008 , 58, 335-342	8.3	76
449	Effect of pretreatment on the fouling of membranes: application in biologically treated sewage effluent. <i>Journal of Membrane Science</i> , 2004 , 234, 111-120	9.6	76
448	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016 , 378, 80-91	10.3	75
447	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	35.4	75
446	Boron transport in forward osmosis: Measurements, mechanisms, and comparison with reverse osmosis. <i>Journal of Membrane Science</i> , 2012 , 419-420, 42-48	9.6	74
445	3D printing for membrane separation, desalination and water treatment. <i>Applied Materials Today</i> , 2020 , 18, 100486	6.6	74
444	Preparation and characterization of visible light responsive Fe ₂ O ₃ /TiO ₂ composites. <i>Applied Surface Science</i> , 2011 , 257, 5813-5819	6.7	73
443	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
442	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	9.6	71
441	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
440	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	35.4	71
439	Evaluation of poly (aspartic acid sodium salt) as a draw solute for forward osmosis. <i>Water Research</i> , 2015 , 80, 294-305	12.5	69
438	Adsorption and photocatalytic degradation of methylene blue over hydrogen-titanate nanofibres produced by a peroxide method. <i>Water Research</i> , 2013 , 47, 4115-25	12.5	69

437	Capacitive deionization (CDI) integrated with monovalent cation selective membrane for producing divalent cation-rich solution. <i>Desalination</i> , 2016 , 400, 38-46	10.3	68
436	Preparation and characterization of novel polytitanium tetrachloride coagulant for water purification. <i>Environmental Science & Technology</i> , 2013 , 47, 12966-75	10.3	67
435	Biotoxicity of nanoparticles: effect of natural organic matter. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3051-3061	2.3	66
434	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
433	Arsenic removal by a membrane hybrid filtration system. <i>Desalination</i> , 2009 , 236, 363-369	10.3	64
432	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, 3864-71	10.3	64
431	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	11.1	63
430	Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , 2016 , 903, 13-35	6.6	63
429	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018 , 52, 2186-2196	10.3	62
428	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	9.6	61
427	Organic fouling mechanisms in forward osmosis membrane process under elevated feed and draw solution temperatures. <i>Desalination</i> , 2015 , 355, 169-177	10.3	61
426	Effect of solution chemistry on organic fouling of reverse osmosis membranes in seawater desalination. <i>Journal of Membrane Science</i> , 2010 , 351, 205-213	9.6	61
425	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
424	Effect of photocatalysis on the membrane hybrid system for wastewater treatment. <i>Desalination</i> , 2008 , 225, 235-248	10.3	60
423	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
422	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	10.3	58
421	Macroporous flexible polyvinyl alcohol lithium adsorbent foam composite prepared via surfactant blending and cryo-desiccation. <i>Chemical Engineering Journal</i> , 2015 , 280, 536-548	14.7	57
420	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	14.7	56

4 ¹⁹	Relating Organic Fouling in Membrane Distillation to Intermolecular Adhesion Forces and Interfacial Surface Energies. <i>Environmental Science & Technology</i> , 2018 , 52, 14198-14207	10.3	56
4 ¹⁸	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
4 ¹⁷	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	6.3	55
4 ¹⁶	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	14.7	55
4 ¹⁵	A systematic approach to determine the fouling index for a RO/NF membrane process. <i>Desalination</i> , 2009 , 238, 117-127	10.3	55
4 ¹⁴	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	9.6	55
4 ¹³	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
4 ¹²	Recent Advances in Osmotic Energy Generation via Pressure-Retarded Osmosis (PRO): A Review. <i>Energies</i> , 2015 , 8, 11821-11845	3.1	54
4 ¹¹	Hybrid membrane distillation: Resource, nutrient and energy recovery. <i>Journal of Membrane Science</i> , 2020 , 599, 117832	9.6	53
4 ¹⁰	Environmental and economic impacts of fertilizer drawn forward osmosis and nanofiltration hybrid system. <i>Desalination</i> , 2017 , 416, 76-85	10.3	52
4 ⁰⁹	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
4 ⁰⁸	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
4 ⁰⁷	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, 109-16	11	52
4 ⁰⁶	Fouling characteristics of a membrane bioreactor and nanofiltration hybrid system for municipal wastewater reclamation. <i>Bioresource Technology</i> , 2013 , 130, 239-47	11	52
4 ⁰⁵	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	8.4	51
4 ⁰⁴	Chemical coupling of photocatalysis with flocculation and adsorption in the removal of organic matter. <i>Water Research</i> , 2005 , 39, 2549-58	12.5	51
4 ⁰³	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	2.5	50
4 ⁰²	Fouling evaluation and mechanisms in a FO-RO hybrid process for direct potable reuse. <i>Journal of Membrane Science</i> , 2016 , 520, 89-98	9.6	49

401	A novel electrospun, hydrophobic, and elastomeric styrene-butadiene-styrene membrane for membrane distillation applications. <i>Journal of Membrane Science</i> , 2018 , 549, 420-427	9.6	49
400	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
399	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
398	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
397	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	10.3	47
396	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
395	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	2.3	47
394	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
393	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
392	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	14.7	45
391	Analysis of first flush to improve the water quality in rainwater tanks. <i>Water Science and Technology</i> , 2010 , 61, 421-8	2.2	45
390	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
389	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
388	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	9.6	43
387	Comparison of physico-chemical pretreatment methods to seawater reverse osmosis: Detailed analyses of molecular weight distribution of organic matter in initial stage. <i>Journal of Membrane Science</i> , 2008 , 320, 151-158	9.6	43
386	Recent transitions in ultrapure water (UPW) technology: Rising role of reverse osmosis (RO). <i>Desalination</i> , 2016 , 399, 185-197	10.3	43
385	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
384	Membrane capacitive deionization-reverse electro dialysis hybrid system for improving energy efficiency of reverse osmosis seawater desalination. <i>Desalination</i> , 2019 , 462, 19-28	10.3	42

383	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	14.7	42
382	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
381	Effect of cake layer structure on colloidal fouling in reverse osmosis membranes. <i>Desalination</i> , 2008 , 220, 335-344	10.3	42
380	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	9.6	42
379	Changing membrane orientation in pressure retarded osmosis for sustainable power generation with low fouling. <i>Desalination</i> , 2016 , 389, 197-206	10.3	41
378	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	5.5	41
377	Mechanical performance of multiscale basalt fiber/epoxy laminates containing tourmaline micro/nano particles. <i>Composites Part B: Engineering</i> , 2014 , 58, 611-617	10	40
376	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
375	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
374	Characteristics of membrane fouling by consecutive chemical cleaning in pressurized ultrafiltration as pre-treatment of seawater desalination. <i>Desalination</i> , 2015 , 369, 51-61	10.3	39
373	Microbial community analysis of an aerobic nitrifying-denitrifying MBR treating ABS resin wastewater. <i>Bioresource Technology</i> , 2011 , 102, 5337-44	11	39
372	Applications of nano-porous graphene materials [critical review on performance and challenges. <i>Materials Horizons</i> , 2020 , 7, 1218-1245	14.4	39
371	Semiconductor photothermal materials enabling efficient solar steam generation toward desalination and wastewater treatment. <i>Desalination</i> , 2021 , 500, 114853	10.3	39
370	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. <i>Desalination</i> , 2018 , 440, 146-155	10.3	39
369	Modeling full-scale osmotic membrane bioreactor systems with high sludge retention and low salt concentration factor for wastewater reclamation. <i>Bioresource Technology</i> , 2015 , 190, 508-15	11	38
368	The performance of forward osmosis in treating high-salinity wastewater containing heavy metal Ni ²⁺ . <i>Chemical Engineering Journal</i> , 2016 , 288, 569-576	14.7	38
367	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
366	Energy efficient 3D printed column type feed spacer for membrane filtration. <i>Water Research</i> , 2019 , 164, 114961	12.5	38

365	Anionic polymer compound biofloculant as a coagulant aid with aluminum sulfate and titanium tetrachloride. <i>Bioresource Technology</i> , 2012 , 108, 45-54	11	38
364	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. <i>Desalination</i> , 2013 , 314, 115-123	10.3	38
363	Advanced characterization of organic foulants of ultrafiltration and reverse osmosis from water reclamation. <i>Desalination</i> , 2012 , 301, 59-66	10.3	38
362	Biofouling of reverse osmosis membranes: Microbial quorum sensing and fouling propensity. <i>Desalination</i> , 2009 , 247, 303-315	10.3	38
361	Is semi-flocculation effective as pretreatment to ultrafiltration in wastewater treatment?. <i>Water Research</i> , 2005 , 39, 147-53	12.5	38
360	Evaluation of apparent membrane performance parameters in pressure retarded osmosis processes under varying draw pressures and with draw solutions containing organics. <i>Journal of Membrane Science</i> , 2015 , 493, 636-644	9.6	37
359	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
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