Ho Kyong Shon

List of Publications by Year in Descending Order

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	Elucidation of physicochemical scaling mechanisms in membrane distillation (MD): Implication to the control of inorganic fouling. *Desalination*, **2022**, 527, 115573	10.3	1
507	Enhanced capacitive deionization using a biochar-integrated novel flow-electrode. *Desalination*, **2022**, 528, 115636	10.3	0
506	Removal of pharmaceutical compounds from synthetic hydrolysed urine using granular activated carbon: Column study and predictive modelling. *Journal of Water Process Engineering*, **2022**, 45, 102480	6.7	1
505	Preparation of effective lithium-ion sieve from sludge-generated TiO2. *Desalination*, **2022**, 525, 115491	10.3	2
504	Incorporation of negatively charged silver nanoparticles in outer-selective hollow fiber forward osmosis (OSHF-FO) membrane for wastewater dewatering. *Desalination*, **2022**, 522, 115402	10.3	5
503	Inorganic scaling in the treatment of shale gas wastewater by fertilizer drawn forward osmosis process. *Desalination*, **2022**, 521, 115396	10.3	2
502	Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. *Journal of Membrane Science*, **2022**, 642, 119943	9.6	2
501	On-site domestic wastewater treatment system using shredded waste plastic bottles as biofilter media: Pilot-scale study on effluent standards in Bhutan. *Chemosphere*, **2022**, 286, 131729	8.4	0
500	Electrode for selective bromide removal in membrane capacitive deionisation. *Chemosphere*, **2022**, 287, 132169	8.4	1
499	Visible light activation of photocatalysts formed from the heterojunction of sludge-generated TiO and g-CN towards NO removal. *Journal of Hazardous Materials*, **2022**, 422, 126919	12.8	2
498	Predicting the performance of spiral-wound membranes in pressure-retarded osmosis processes. *Renewable Energy*, **2022**, 189, 66-77	8.1	1
497	Optimizing the performance of sweeping gas membrane distillation for treating naturally heated saline groundwater. *Desalination*, **2022**, 532, 115736	10.3	1
496	Highly stable gold nanolayer membrane for efficient solar water evaporation under a harsh environment.. *Chemosphere*, **2022**, 299, 134394	8.4	0
495	Capability of Organically Modified Montmorillonite Nanoclay as a Carrier for Imidacloprid Delivery. *ACS Agricultural Science and Technology*, **2022**, 2, 57-68		1
494	Impact of source-separation of urine on treatment capacity, process design, and capital expenditure of a decentralised wastewater treatment plant.. *Chemosphere*, **2022**, 134489	8.4	0
493	Novel organic solvent nanofiltration membrane based on inkjet printing-assisted layer-by-layer assembly. *Journal of Membrane Science*, **2022**, 655, 120582	9.6	1
492	Brine management systems using membrane concentrators: Future directions for membrane development in desalination. *Desalination*, **2022**, 535, 115839	10.3	2

491	Silicene nanosheets as support fillers for thin film composite forward osmosis membranes. *Desalination*, **2022**, 536, 115817	10.3	0
490	Enhancing selectivity of novel outer-selective hollow fiber forward osmosis membrane by polymer nanostructures. *Chemical Engineering Journal*, **2021**, 433, 133634	14.7	2
489	Ammonia recovery from human urine as liquid fertilizers in hollow fiber membrane contactor: Effects of permeate chemistry. *Environmental Engineering Research*, **2021**, 26,	3.6	13
488	3D printing for membrane desalination: Challenges and future prospects. *Desalination*, **2021**, 520, 115366	10.3	7
487	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. *Water Research*, **2021**, 207, 117810	12.5	0
486	Sulfuric Acid Treated g-CN as a Precursor to Generate High-Efficient g-CN for Hydrogen Evolution from Water under Visible Light Irradiation. *Catalysts*, **2021**, 11, 37	4	2
485	Utilization of plasma in water desalination and purification. *Desalination*, **2021**, 500, 114903	10.3	7
484	Chloride-Mediated Enhancement in Heat-Induced Activation of Peroxymonosulfate: New Reaction Pathways for Oxidizing Radical Production. *Environmental Science & Technology*, **2021**, 55, 5382-5392	10.3	22
483	Janus membranes for membrane distillation: Recent advances and challenges. *Advances in Colloid and Interface Science*, **2021**, 289, 102362	14.3	22
482	Novel hole-pillar spacer design for improved hydrodynamics and biofouling mitigation in membrane filtration. *Scientific Reports*, **2021**, 11, 6979	4.9	5
481	Co-axially electrospun superhydrophobic nanofiber membranes with 3D-hierarchically structured surface for desalination by long-term membrane distillation. *Journal of Membrane Science*, **2021**, 623, 119028	9.6	14
480	Improving the feasibility and applicability of flow-electrode capacitive deionization (FCDI): Review of process optimization and energy efficiency. *Desalination*, **2021**, 502, 114930	10.3	22
479	Fertilizer drawn forward osmosis as an alternative to 2nd pass seawater reverse osmosis: Estimation of boron removal and energy consumption. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	2
478	Facile development of comprehensively fouling-resistant reduced polyketone-based thin film composite forward osmosis membrane for treatment of oily wastewater. *Journal of Membrane Science*, **2021**, 626, 119185	9.6	13
477	Supramolecular host-guest complex of methylated Ecyclodextrin with polymerized ionic liquid ([vbim]TFSI) as highly effective and energy-efficient thermo-regenerable draw solutes in forward osmosis. *Chemical Engineering Journal*, **2021**, 411, 128520	14.7	4
476	Impact of source-separation of urine on effluent quality, energy consumption and greenhouse gas emissions of a decentralized wastewater treatment plant. *Chemical Engineering Research and Design*, **2021**, 150, 298-304	5.5	10
475	Synthesis and NO removal performance of anatase S-TiO/g-CN heterojunction formed from dye wastewater sludge. *Chemosphere*, **2021**, 275, 130020	8.4	8
474	Effect of graphene oxide quantum dots on the interfacial polymerization of a thin-film nanocomposite forward osmosis membrane: An experimental and molecular dynamics study. *Journal of Membrane Science*, **2021**, 630, 119309	9.6	2

473	Controlling the inner surface pore and spherulite structures of PVDF hollow fiber membranes in thermally induced phase separation using triple-orifice spinneret for membrane distillation. *Separation and Purification Technology*, **2021**, 258, 117988	8.3	6
472	Employing the synergistic effect between aquaporin nanostructures and graphene oxide for enhanced separation performance of thin-film nanocomposite forward osmosis membranes. *Desalination*, **2021**, 498, 114795	10.3	8
471	Experimental and theoretical investigation of a high performance PTFE membrane for vacuum-membrane distillation. *Journal of Membrane Science*, **2021**, 617, 118524	9.6	9
470	Hollow fiber membranes with hierarchical spherulite surface structure developed by thermally induced phase separation using triple-orifice spinneret for membrane distillation. *Journal of Membrane Science*, **2021**, 618, 118586	9.6	12
469	Facile synthesis and characterization of anatase TiO/g-CN composites for enhanced photoactivity under UV-visible spectrum. *Chemosphere*, **2021**, 262, 128004	8.4	8
468	Application of fouling index for forward osmosis hybrid system: A pilot demonstration. *Journal of Membrane Science*, **2021**, 617, 118624	9.6	5
467	High-performance and durable pressure retarded osmosis membranes fabricated using hydrophilized polyethylene separators. *Journal of Membrane Science*, **2021**, 619, 118796	9.6	18
466	Exploring shredded waste PET bottles as a biofilter media for improved on-site sanitation. *Chemical Engineering Research and Design*, **2021**, 148, 370-381	5.5	2
465	Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. *Journal of Membrane Science*, **2021**, 620, 118901	9.6	20
464	A review on lithium recovery using electrochemical capturing systems. *Desalination*, **2021**, 500, 114883	10.3	27
463	In situ ultrathin silica layer formation on polyamide thin-film composite membrane surface for enhanced forward osmosis performances. *Journal of Membrane Science*, **2021**, 620, 118876	9.6	4
462	Semiconductor photothermal materials enabling efficient solar steam generation toward desalination and wastewater treatment. *Desalination*, **2021**, 500, 114853	10.3	39
461	Salinity gradient energy generation by pressure retarded osmosis: A review. *Desalination*, **2021**, 500, 114841	10.3	21
460	Rejection of harsh pH saline solutions using graphene membranes. *Carbon*, **2021**, 171, 240-247	10.4	8
459	Forward osmosis with direct contact membrane distillation using tetrabutylphosphonium p-toluenesulfonate as an effective and safe thermo-recyclable osmotic agent for seawater desalination. *Chemosphere*, **2021**, 263, 128070	8.4	6
458	Inkjet printing of graphene oxide and dopamine on nanofiltration membranes for improved anti-fouling properties and chlorine resistance. *Separation and Purification Technology*, **2021**, 254, 117604	8.3	11
457	Synthesis of N-Doped TiO2 for Efficient Photocatalytic Degradation of Atmospheric NOx. *Catalysts*, **2021**, 11, 109	4	10
456	Recent developments in forward osmosis and its implication in expanding applications **2021**, 149-186		1

455	Hydrophilic/Hydrophobic Silane Grafting on TiO2 Nanoparticles: Photocatalytic Paint for Atmospheric Cleaning. *Catalysts*, **2021**, 11, 193	4	5
454	Recent advances in nanomaterial-incorporated nanocomposite membranes for organic solvent nanofiltration. *Separation and Purification Technology*, **2021**, 268, 118657	8.3	9
453	Sustainable engineering of sewers and sewage treatment plants for scenarios with urine diversion. *Journal of Hazardous Materials*, **2021**, 415, 125609	12.8	6
452	Forward osmosis system design and optimization using a commercial cellulose triacetate hollow fibre membrane module for energy efficient desalination. *Desalination*, **2021**, 510, 115075	10.3	7
451	Polyaniline-based adsorbents for aqueous pollutants removal: A review. *Chemical Engineering Journal*, **2021**, 418, 129425	14.7	23
450	Critical flux on a submerged membrane bioreactor for nitrification of source separated urine. *Chemical Engineering Research and Design*, **2021**, 153, 518-526	5.5	1
449	A Green Synthesis of Ru Modified g-C3N4 Nanosheets for Enhanced Photocatalytic Ammonia Synthesis. *Energy Material Advances*, **2021**, 2021, 1-12	1	8
448	Biomass-based photothermal materials for interfacial solar steam generation: a review. *Materials Today Energy*, **2021**, 21, 100716	7	18
447	Hybrid polymer/ionic liquid electrospun membranes with tunable surface charge for virus capture in aqueous environments. *Journal of Water Process Engineering*, **2021**, 43, 102278	6.7	3
446	Control of the antagonistic effects of heat-assisted chlorine oxidative degradation on pressure retarded osmosis thin film composite membrane surface. *Journal of Membrane Science*, **2021**, 636, 119567	9.6	2
445	Removal of pharmaceuticals from nitrified urine. *Chemosphere*, **2021**, 280, 130870	8.4	7
444	In situ engineering of an ultrathin polyamphoteric layer on polyketone-based thin film composite forward osmosis membrane for comprehensive anti-fouling performance. *Separation and Purification Technology*, **2021**, 272, 118922	8.3	6
443	Enhancing the applicability of forward osmosis membrane process utilizing food additives as draw solutes. *Journal of Membrane Science*, **2021**, 638, 119705	9.6	0
442	Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. *Desalination*, **2021**, 516, 115222	10.3	9
441	Comprehensive review of osmotic dilution/concentration using FO membranes for practical applications. *Desalination*, **2021**, 515, 115190	10.3	4
440	Submerged versus side-stream osmotic membrane bioreactors using an outer-selective hollow fiber osmotic membrane for desalination. *Desalination*, **2021**, 515, 115196	10.3	1
439	Comprehensive analysis of a hybrid FO-NF-RO process for seawater desalination: With an NF-like FO membrane. *Desalination*, **2021**, 515, 115203	10.3	3
438	Evaluation of pretreatment and membrane configuration for pressure-retarded osmosis application to produced water from the petroleum industry. *Desalination*, **2021**, 516, 115219	10.3	1

437	Dynamic feed spacer for fouling minimization in forward osmosis process. *Desalination*, **2021**, 515, 115198	10.3	2
436	Is lithium brine water?. *Desalination*, **2021**, 518, 115169	10.3	4
435	Thermo-osmosis-Coupled Thermally Regenerative Electrochemical Cycle for Efficient Lithium Extraction. *ACS Applied Materials & Interfaces*, **2021**, 13, 6276-6285	9.5	6
434	Size-controlled graphene oxide for highly permeable and fouling-resistant outer-selective hollow fiber thin-film composite membranes for forward osmosis. *Journal of Membrane Science*, **2020**, 609, 118171	9.6	18
433	Atmospheric-pressure plasma seawater desalination: Clean energy, agriculture, and resource recovery nexus for a blue planet. *Sustainable Materials and Technologies*, **2020**, 25, e00181	5.3	2
432	Preparation and Characterization of Photoactive Anatase TiO2 from Algae Bloomed Surface Water. *Catalysts*, **2020**, 10, 452	4	8
431	Covalent organic framework incorporated outer-selective hollow fiber thin-film nanocomposite membranes for osmotically driven desalination. *Desalination*, **2020**, 485, 114461	10.3	15
430	Controlling spherulitic structures at surface and sub-layer of hollow fiber membranes prepared using nucleation agents via triple-orifice spinneret in TIPS process. *Journal of Membrane Science*, **2020**, 609, 118229	9.6	6
429	Surface modification of thin-film composite forward osmosis membranes with polyvinyl alcohol–graphene oxide composite hydrogels for antifouling properties. *Desalination*, **2020**, 491, 114591	10.3	23
428	In Situ-Generated Reactive Oxygen Species in Precharged Titania and Tungsten Trioxide Composite Catalyst Membrane Filters: Application to As(III) Oxidation in the Absence of Irradiation. *Environmental Science & Technology*, **2020**, 54, 9601-9608	10.3	10
427	Retardation of wetting for membrane distillation by adjusting major components of seawater. *Water Research*, **2020**, 175, 115677	12.5	17
426	Sanitation and dewatering of human urine via membrane bioreactor and membrane distillation and its reuse for fertigation. *Journal of Cleaner Production*, **2020**, 270, 122390	10.3	14
425	Influence of silica nanoparticles on the desalination performance of forward osmosis polybenzimidazole membranes. *Desalination*, **2020**, 491, 114441	10.3	11
424	Evaluating the Feasibility of Forward Osmosis in Diluting RO Concentrate Using Pretreatment Backwash Water. *Membranes*, **2020**, 10,	3.8	1
423	Hybrid membrane distillation: Resource, nutrient and energy recovery. *Journal of Membrane Science* , **2020**, 599, 117832	9.6	53
422	A review of membrane wettability for the treatment of saline water deploying membrane distillation. *Desalination*, **2020**, 479, 114312	10.3	106
421	Electrochemical Oxidation-Membrane Distillation Hybrid Process: Utilizing Electric Resistance Heating for Distillation and Membrane Defouling through Thermal Activation of Anodically Formed Persulfate. *Environmental Science & Technology*, **2020**, 54, 1867-1877	10.3	27
420	Staged voltage mode in membrane capacitive deionization: Comparison with constant voltage and constant current modes. *Desalination*, **2020**, 479, 114327	10.3	0

419	Feasibility study of reverse osmosis flow capacitive deionization (RO-FCDI) for energy-efficient desalination using seawater as the flow-electrode aqueous electrolyte. *Desalination*, **2020**, 479, 114326	10.3	18
418	Removal of Organic Micro-Pollutants by Conventional Membrane Bioreactors and High-Retention Membrane Bioreactors. *Applied Sciences (Switzerland)*, **2020**, 10, 2969	2.6	13
417	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. *Desalination*, **2020**, 484, 114421	10.3	36
416	Efficient recovery of nitrate from municipal wastewater via MCDI using anion-exchange polymer coated electrode embedded with nitrate selective resin. *Desalination*, **2020**, 484, 114425	10.3	14
415	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. *Desalination*, **2020**, 485, 114455	10.3	98
414	Pilot-scale membrane capacitive deionisation for effective bromide removal and high water recovery in seawater desalination. *Desalination*, **2020**, 479, 114309	10.3	19
413	Conceptual design of a dynamic turbospacer for efficient low pressure membrane filtration. *Desalination*, **2020**, 496, 114712	10.3	10
412	Applications of nano-porous graphene materials: A critical review on performance and challenges. *Materials Horizons*, **2020**, 7, 1218-1245	14.4	39
411	Fouling and performance of outer selective hollow fiber membrane in osmotic membrane bioreactor: Cross flow and air scouring effects. *Bioresource Technology*, **2020**, 295, 122303	11	8
410	Simultaneous nitrification-denitrification using baffled osmotic membrane bioreactor-microfiltration hybrid system at different oxic-anoxic conditions for wastewater treatment. *Journal of Environmental Management*, **2020**, 253, 109685	7.9	8
409	Quantitative analysis of the irreversible membrane fouling of forward osmosis during wastewater reclamation: Correlation with the modified fouling index. *Journal of Membrane Science*, **2020**, 597, 117757	9.6	13
408	Comprehensive analysis of a hybrid FO/crystallization/RO process for improving its economic feasibility to seawater desalination. *Water Research*, **2020**, 171, 115426	12.5	21
407	Hollow Porous Silica Nanosphere with Single Large Pore Opening for Pesticide Loading and Delivery. *ACS Applied Nano Materials*, **2020**, 3, 105-113	5.6	15
406	Polyvinylidene fluoride phase design by two-dimensional boron nitride enables enhanced performance and stability for seawater desalination. *Journal of Membrane Science*, **2020**, 598, 117669	9.6	11
405	Fabrication of porous polyketone forward osmosis membranes modified with aromatic compounds: Improved pressure resistance and low structural parameter. *Separation and Purification Technology*, **2020**, 251, 117400	8.3	7
404	Energy recovery modeling of pressure-retarded osmosis systems with membrane modules compatible with high salinity draw streams. *Desalination*, **2020**, 493, 114624	10.3	5
403	Submerged module of outer selective hollow fiber membrane for effective fouling mitigation in osmotic membrane bioreactor for desalination. *Desalination*, **2020**, 496, 114707	10.3	1
402	Tetrabutylammonium 2,4,6-trimethylbenzenesulfonate as an effective and regenerable thermo-responsive ionic liquid drawing agent in forward osmosis for seawater desalination. *Desalination*, **2020**, 495, 114635	10.3	8

401	Engineering Heterostructured Thin-Film Nanocomposite Membrane with Functionalized Graphene Oxide Quantum Dots (GOQD) for Highly Efficient Reverse Osmosis. *ACS Applied Materials & Interfaces*, **2020**, 12, 38662-38673	9.5	27
400	Improving energy efficiency of pretreatment for seawater desalination during algal blooms using a novel meshed tube filtration process. *Desalination*, **2020**, 486, 114477	10.3	7
399	Urine Treatment on the International Space Station: Current Practice and Novel Approaches. *Membranes*, **2020**, 10,	3.8	11
398	Modified Hydrothermal Route for Synthesis of Photoactive Anatase TiO2/g-CN Nanotubes from Sludge Generated TiO2. *Catalysts*, **2020**, 10, 1350	4	5
397	Influence of hydrodynamic operating conditions on organic fouling of spiral-wound forward osmosis membranes: Fouling-induced performance deterioration in FO-RO hybrid system. *Water Research*, **2020**, 185, 116154	12.5	14
396	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. *Water Research*, **2020**, 186, 116320	12.5	7
395	Enhanced water permeability and osmotic power generation with sulfonate-functionalized porous polymer-incorporated thin film nanocomposite membranes. *Desalination*, **2020**, 496, 114756	10.3	14
394	Progress on the Fabrication and Application of Electrospun Nanofiber Composites. *Membranes*, **2020**, 10,	3.8	30
393	ASTM Standard Modified Fouling Index for Seawater Reverse Osmosis Desalination Process: Status, Limitations, and Perspectives. *Separation and Purification Reviews*, **2020**, 49, 55-67	7.3	3
392	3D printing for membrane separation, desalination and water treatment. *Applied Materials Today*, **2020**, 18, 100486	6.6	74
391	Towards a low-energy seawater reverse osmosis desalination plant: A review and theoretical analysis for future directions. *Journal of Membrane Science*, **2020**, 595, 117607	9.6	80
390	Free-standing, thin-film, symmetric membranes: Next-generation membranes for engineered osmosis. *Journal of Membrane Science*, **2020**, 607, 118145	9.6	7
389	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. *Journal of Environmental Management*, **2019**, 251, 109524	7.9	32
388	The effects of naturally occurring operation factors on the removal mechanism of major algae metabolized materials in forward osmosis process. *Journal of Cleaner Production*, **2019**, 239, 118009	10.3	7
387	Evaluation of ethanol as draw solute for forward osmosis (FO) process of highly saline (waste)water. *Desalination*, **2019**, 456, 23-31	10.3	14
386	The application of forward osmosis for simulated surface water treatment by using trisodium citrate as draw solute. *Environmental Science and Pollution Research*, **2019**, 26, 8585-8593	5.1	3
385	Defect-free outer-selective hollow fiber thin-film composite membranes for forward osmosis applications. *Journal of Membrane Science*, **2019**, 586, 281-291	9.6	33
384	Bromide and iodide selectivity in membrane capacitive deionisation, and its potential application to reduce the formation of disinfection by-products in water treatment. *Chemosphere*, **2019**, 234, 536-544	8.4	6

383	Removal behaviors and fouling mechanisms of charged antibiotics and nanoparticles on forward osmosis membrane. *Journal of Environmental Management*, **2019**, 247, 385-393	7.9	13
382	Effect of Brine Water on Discharge of Cations in Membrane Capacitive Deionization and Its Implications on Nitrogen Recovery from Wastewater. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11474-11484	8.3	7
381	Human urine as a forward osmosis draw solution for the application of microalgae dewatering. *Journal of Hazardous Materials*, **2019**, 378, 120724	12.8	24
380	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. *Journal of Membrane Science*, **2019**, 584, 20-45	9.6	80
379	Recyclable nanoscale zerovalent iron (nZVI)-immobilized electrospun nanofiber composites with improved mechanical strength for groundwater remediation. *Composites Part B: Engineering*, **2019**, 171, 339-346	10	18
378	Improving membrane distillation performance: Morphology optimization of hollow fiber membranes with selected non-solvent in dope solution. *Chemosphere*, **2019**, 230, 117-126	8.4	10
377	Thin-film composite hollow fiber membranes incorporated with graphene oxide in polyethersulfone support layers for enhanced osmotic power density. *Desalination*, **2019**, 464, 63-75	10.3	28
376	Fabrication of high performance and durable forward osmosis membranes using mussel-inspired polydopamine-modified polyethylene supports. *Journal of Membrane Science*, **2019**, 584, 89-99	9.6	36
375	Techno-economic assessment of fertiliser drawn forward osmosis process for greenwall plants from urban wastewater. *Chemical Engineering Research and Design*, **2019**, 127, 180-188	5.5	18
374	An integrated system for CO2 capture and water treatment by forward osmosis driven by an amine-based draw solution. *Journal of Membrane Science*, **2019**, 581, 9-17	9.6	17
373	Reuse of municipal wastewater via membrane capacitive deionization using ion-selective polymer-coated carbon electrodes in pilot-scale. *Chemical Engineering Journal*, **2019**, 372, 241-250	14.7	34
372	Efficient fouling control using outer-selective hollow fiber thin-film composite membranes for osmotic membrane bioreactor applications. *Bioresource Technology*, **2019**, 282, 9-17	11	29
371	Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. *Desalination*, **2019**, 459, 10-19	10.3	45
370	Membrane capacitive deionization-reverse electrodialysis hybrid system for improving energy efficiency of reverse osmosis seawater desalination. *Desalination*, **2019**, 462, 19-28	10.3	42
369	Phosphorus removal mechanisms from domestic wastewater by membrane capacitive deionization and system optimization for enhanced phosphate removal. *Chemical Engineering Research and Design*, **2019**, 126, 44-52	5.5	27
368	Energy efficient 3D printed column type feed spacer for membrane filtration. *Water Research*, **2019** , 164, 114961	12.5	38
367	Municipal wastewater treatment by forward osmosis using seawater concentrate as draw solution. *Chemosphere*, **2019**, 237, 124485	8.4	20
366	High-Efficiency Solar Desalination Accompanying Electrocatalytic Conversions of Desalted Chloride and Captured Carbon Dioxide. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15320-15328	8.3	18

365	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. *Journal of Environmental Management*, **2019**, 248, 109240	7.9	16
364	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. *Chemosphere*, **2019**, 236, 124289	8.4	12
363	Nanoscale zero-valent iron (nZVI) immobilization onto graphene oxide (GO)-incorporated electrospun polyvinylidene fluoride (PVDF) nanofiber membrane for groundwater remediation via gravity-driven membrane filtration. *Science of the Total Environment*, **2019**, 688, 787-796	10.2	27
362	Wastewater management in urban Bhutan: Assessing the current practices and challenges. *Chemical Engineering Research and Design*, **2019**, 132, 82-93	5.5	10
361	Preparation and characterization of TiO generated from synthetic wastewater using TiCl based coagulation/flocculation aided with Ca(OH). *Journal of Environmental Management*, **2019**, 250, 109521	7.9	5
360	The effect of Schiff base network on the separation performance of thin film nanocomposite forward osmosis membranes. *Separation and Purification Technology*, **2019**, 217, 284-293	8.3	20
359	Sustainable dewatering of grapefruit juice through forward osmosis: Improving membrane performance, fouling control, and product quality. *Journal of Membrane Science*, **2019**, 578, 53-60	9.6	42
358	Tuning the nanostructure of nitrogen-doped graphene laminates for forward osmosis desalination. *Nanoscale*, **2019**, 11, 22025-22032	7.7	6
357	From the Laboratory to Full-Scale Applications of Forward Osmosis: Research Challenges and Opportunities. *Current Pollution Reports*, **2019**, 5, 337-352	7.6	9
356	Evaluation of a real-time visualization system for scaling detection during DCMD, and its correlation with wetting. *Desalination*, **2019**, 454, 59-70	10.3	8
355	TiO□Coated Optical Fibres for Groundwater Remediation. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 1086-1089	1.3	1
354	Techno-economic feasibility of recovering phosphorus, nitrogen and water from dilute human urine via forward osmosis. *Water Research*, **2019**, 150, 47-55	12.5	48
353	Nanofibers for Water and Wastewater Treatment: Recent Advances and Developments. *Energy, Environment, and Sustainability*, **2019**, 431-468	0.8	5
352	Volatile fatty acids and biogas recovery using thermophilic anaerobic membrane distillation bioreactor for wastewater reclamation. *Journal of Environmental Management*, **2019**, 231, 833-842	7.9	30
351	Indexing fouling reversibility in forward osmosis and its implications for sustainable operation of wastewater reclamation. *Journal of Membrane Science*, **2019**, 574, 262-269	9.6	14
350	Applications of capacitive deionization: Desalination, softening, selective removal, and energy efficiency. *Desalination*, **2019**, 449, 118-130	10.3	157
349	Optimisation of a forward osmosis and membrane distillation hybrid system for the treatment of source-separated urine. *Separation and Purification Technology*, **2019**, 212, 368-375	8.3	48
348	Hybrid desalination processes for beneficial use of reverse osmosis brine: Current status and future prospects. *Desalination*, **2019**, 454, 104-111	10.3	78

347	Membrane capacitive deionisation as an alternative to the 2nd pass for seawater reverse osmosis desalination plant for bromide removal. *Desalination*, **2018**, 433, 113-119	10.3	42
346	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. *Bioresource Technology*, **2018**, 262, 98-106	11	34
345	Simultaneous phosphorous and nitrogen recovery from source-separated urine: A novel application for fertiliser drawn forward osmosis. *Chemosphere*, **2018**, 203, 482-489	8.4	60
344	Treatment of medical radioactive liquid waste using Forward Osmosis (FO) membrane process. *Journal of Membrane Science*, **2018**, 556, 238-247	9.6	30
343	Anti-fouling graphene-based membranes for effective water desalination. *Nature Communications*, **2018**, 9, 683	17.4	135
342	New industrial application of forward osmosis (FO): Precious metal recovery from printed circuit board (PCB) plant wastewater. *Journal of Membrane Science*, **2018**, 552, 234-242	9.6	43
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