

Ho Kyong Shon

List of Publications by Year in descending order

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531
papers

26,976
citations

6254

80
h-index

11308

136
g-index

536
all docs

536
docs citations

536
times ranked

15006
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	8.2	11
2	Electrode for selective bromide removal in membrane capacitive deionisation. <i>Chemosphere</i> , 2022, 287, 132169.	8.2	9
3	Visible light activation of photocatalysts formed from the heterojunction of sludge-generated TiO ₂ and g-CN towards NO removal. <i>Journal of Hazardous Materials</i> , 2022, 422, 126919.	12.4	13
4	Incorporation of negatively charged silver nanoparticles in outer-selective hollow fiber forward osmosis (OSHF-FO) membrane for wastewater dewatering. <i>Desalination</i> , 2022, 522, 115402.	8.2	9
5	Inorganic scaling in the treatment of shale gas wastewater by fertilizer drawn forward osmosis process. <i>Desalination</i> , 2022, 521, 115396.	8.2	16
6	Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022, 642, 119943.	8.2	19
7	Enhancing selectivity of novel outer-selective hollow fiber forward osmosis membrane by polymer nanostructures. <i>Chemical Engineering Journal</i> , 2022, 433, 133634.	12.7	4
8	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.	5.6	9
9	Preparation of effective lithium-ion sieve from sludge-generated TiO ₂ . <i>Desalination</i> , 2022, 525, 115491.	8.2	17
10	Green ammonia synthesis using CeO ₂ /RuO ₂ nanolayers on vertical graphene catalyst via electrochemical route in alkaline electrolyte. <i>Nanoscale</i> , 2022, 14, 1395-1408.	5.6	11
11	Elucidation of physicochemical scaling mechanisms in membrane distillation (MD): Implication to the control of inorganic fouling. <i>Desalination</i> , 2022, 527, 115573.	8.2	16
12	Enhanced capacitive deionization using a biochar-integrated novel flow-electrode. <i>Desalination</i> , 2022, 528, 115636.	8.2	14
13	Dual role of N-doped graphene film as a cathode material for anodic organic oxidation and persulfate production and as a planar carbocatalyst for non-electrochemical persulfate activation. <i>Environmental Science: Nano</i> , 2022, 9, 1662-1674.	4.3	4
14	TiO ₂ nanotube electrode for organic degradation coupled with flow-electrode capacitive deionization for brackish water desalination. <i>Npj Clean Water</i> , 2022, 5, .	8.0	7
15	Predicting the performance of spiral-wound membranes in pressure-retarded osmosis processes. <i>Renewable Energy</i> , 2022, 189, 66-77.	8.9	9
16	Optimizing the performance of sweeping gas membrane distillation for treating naturally heated saline groundwater. <i>Desalination</i> , 2022, 532, 115736.	8.2	7
17	Highly stable gold nanolayer membrane for efficient solar water evaporation under a harsh environment. <i>Chemosphere</i> , 2022, 299, 134394.	8.2	7
18	Capability of Organically Modified Montmorillonite Nanoclay as a Carrier for Imidacloprid Delivery. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 57-68.	2.3	9

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19	Impact of source-separation of urine on treatment capacity, process design, and capital expenditure of a decentralised wastewater treatment plant. <i>Chemosphere</i> , 2022, 300, 134489.	8.2	9
20	Engineered osmosis “ sustainable technology for water recovery, product concentration and energy generation. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1326-1358.	2.4	4
21	Novel organic solvent nanofiltration membrane based on inkjet printing-assisted layer-by-layer assembly. <i>Journal of Membrane Science</i> , 2022, 655, 120582.	8.2	19
22	Brine management systems using membrane concentrators: Future directions for membrane development in desalination. <i>Desalination</i> , 2022, 535, 115839.	8.2	10
23	Silicene nanosheets as support fillers for thin film composite forward osmosis membranes. <i>Desalination</i> , 2022, 536, 115817.	8.2	8
24	Removal of Pharmaceutical Pollutants from Wastewater Using 2D Covalent Organic Frameworks (COFs): An In Silico Engineering Study. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8809-8820.	3.7	13
25	Heterogeneous asymmetric passable cavities within graphene oxide nanochannels for highly efficient lithium sieving. <i>Desalination</i> , 2022, 538, 115888.	8.2	11
26	Computational fluid dynamics simulation study of hypersaline water desalination via membrane distillation: Effect of membrane characteristics and operational parameters. <i>Chemosphere</i> , 2022, 305, 135294.	8.2	5
27	Development of highly permeable self-standing nanocomposite sulfonated poly ether ketone membrane using covalent organic frameworks. <i>Desalination</i> , 2022, 538, 115935.	8.2	9
28	Low energy resonance vibration submerged membrane system for microalgae harvesting: Performance and feasibility. <i>Desalination</i> , 2022, 539, 115895.	8.2	4
29	Fabrication of dialyzer membrane-based forward osmosis modules via vacuum-assisted interfacial polymerization for the preparation of dialysate. <i>Journal of Membrane Science</i> , 2022, 659, 120814.	8.2	1
30	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. <i>Separation and Purification Technology</i> , 2021, 258, 117988.	7.9	15
31	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.	8.2	22
32	Experimental and theoretical investigation of a high performance PTFE membrane for vacuum-membrane distillation. <i>Journal of Membrane Science</i> , 2021, 617, 118524.	8.2	29
33	Hollow fiber membranes with hierarchical spherulite surface structure developed by thermally induced phase separation using triple-orifice spinneret for membrane distillation. <i>Journal of Membrane Science</i> , 2021, 618, 118586.	8.2	21
34	Facile synthesis and characterization of anatase TiO ₂ /g-CN composites for enhanced photoactivity under UV-visible spectrum. <i>Chemosphere</i> , 2021, 262, 128004.	8.2	20
35	Application of fouling index for forward osmosis hybrid system: A pilot demonstration. <i>Journal of Membrane Science</i> , 2021, 617, 118624.	8.2	10
36	High-performance and durable pressure retarded osmosis membranes fabricated using hydrophilized polyethylene separators. <i>Journal of Membrane Science</i> , 2021, 619, 118796.	8.2	31

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37	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.	5.6	13
38	Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021, 620, 118901.	8.2	48
39	A review on lithium recovery using electrochemical capturing systems. <i>Desalination</i> , 2021, 500, 114883.	8.2	96
40	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.	8.2	25
41	Semiconductor photothermal materials enabling efficient solar steam generation toward desalination and wastewater treatment. <i>Desalination</i> , 2021, 500, 114853.	8.2	179
42	Salinity gradient energy generation by pressure retarded osmosis: A review. <i>Desalination</i> , 2021, 500, 114841.	8.2	52
43	Rejection of harsh pH saline solutions using graphene membranes. <i>Carbon</i> , 2021, 171, 240-247.	10.3	9
44	Forward osmosis with direct contact membrane distillation using tetrabutylphosphonium p-toluenesulfonate as an effective and safe thermo-recyclable osmotic agent for seawater desalination. <i>Chemosphere</i> , 2021, 263, 128070.	8.2	20
45	Inkjet printing of graphene oxide and dopamine on nanofiltration membranes for improved anti-fouling properties and chlorine resistance. <i>Separation and Purification Technology</i> , 2021, 254, 117604.	7.9	31
46	Synthesis of N-Doped TiO ₂ for Efficient Photocatalytic Degradation of Atmospheric NO _x . <i>Catalysts</i> , 2021, 11, 109.	3.5	42
47	Recent developments in forward osmosis and its implication in expanding applications. , 2021, , 149-186.		1
48	Hydrophilic/Hydrophobic Silane Grafting on TiO ₂ Nanoparticles: Photocatalytic Paint for Atmospheric Cleaning. <i>Catalysts</i> , 2021, 11, 193.	3.5	15
49	Utilization of plasma in water desalination and purification. <i>Desalination</i> , 2021, 500, 114903.	8.2	27
50	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.	10.0	86
51	Janus membranes for membrane distillation: Recent advances and challenges. <i>Advances in Colloid and Interface Science</i> , 2021, 289, 102362.	14.7	97
52	Novel hole-pillar spacer design for improved hydrodynamics and biofouling mitigation in membrane filtration. <i>Scientific Reports</i> , 2021, 11, 6979.	3.3	25
53	Co-axially electrospun superhydrophobic nanofiber membranes with 3D-hierarchically structured surface for desalination by long-term membrane distillation. <i>Journal of Membrane Science</i> , 2021, 623, 119028.	8.2	38
54	Improving the feasibility and applicability of flow-electrode capacitive deionization (FCDI): Review of process optimization and energy efficiency. <i>Desalination</i> , 2021, 502, 114930.	8.2	64

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55	Fertilizer drawn forward osmosis as an alternative to 2nd pass seawater reverse osmosis: Estimation of boron removal and energy consumption. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	7
56	Facile development of comprehensively fouling-resistant reduced polyketone-based thin film composite forward osmosis membrane for treatment of oily wastewater. <i>Journal of Membrane Science</i> , 2021, 626, 119185.	8.2	33
57	Supramolecular host-guest complex of methylated β -cyclodextrin with polymerized ionic liquid ([vbim]TFSI) as highly effective and energy-efficient thermo-regenerable draw solutes in forward osmosis. <i>Chemical Engineering Journal</i> , 2021, 411, 128520.	12.7	15
58	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.	5.6	31
59	Synthesis and NO _x removal performance of anatase $\text{TiO}_2/\text{g-CN}$ heterojunction formed from dye wastewater sludge. <i>Chemosphere</i> , 2021, 275, 130020.	8.2	19
60	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.	8.2	22
61	Pyrite (FeS ₂)-supported ultrafiltration system for removal of mercury (II) from water. <i>Emergent Materials</i> , 2021, 4, 1441-1453.	5.7	3
62	Recent advances in nanomaterial-incorporated nanocomposite membranes for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2021, 268, 118657.	7.9	41
63	Sustainable engineering of sewers and sewage treatment plants for scenarios with urine diversion. <i>Journal of Hazardous Materials</i> , 2021, 415, 125609.	12.4	11
64	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.	8.2	16
65	Polyaniline-based adsorbents for aqueous pollutants removal: A review. <i>Chemical Engineering Journal</i> , 2021, 418, 129425.	12.7	108
66	Critical flux on a submerged membrane bioreactor for nitrification of source separated urine. <i>Chemical Engineering Research and Design</i> , 2021, 153, 518-526.	5.6	12
67	A Green Synthesis of Ru Modified g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Ammonia Synthesis. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	36
68	Biomass-based photothermal materials for interfacial solar steam generation: a review. <i>Materials Today Energy</i> , 2021, 21, 100716.	4.7	48
69	Hybrid polymer/ionic liquid electrospun membranes with tunable surface charge for virus capture in aqueous environments. <i>Journal of Water Process Engineering</i> , 2021, 43, 102278.	5.6	9
70	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, 119567.	8.2	5
71	Removal of pharmaceuticals from nitrified urine. <i>Chemosphere</i> , 2021, 280, 130870.	8.2	16
72	In situ engineering of an ultrathin polyamphoteric layer on polyketone-based thin film composite forward osmosis membrane for comprehensive anti-fouling performance. <i>Separation and Purification Technology</i> , 2021, 272, 118922.	7.9	25

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73	Enhancing the applicability of forward osmosis membrane process utilizing food additives as draw solutes. <i>Journal of Membrane Science</i> , 2021, 638, 119705.	8.2	7
74	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.	8.2	21
75	Comprehensive review of osmotic dilution/concentration using FO membranes for practical applications. <i>Desalination</i> , 2021, 515, 115190.	8.2	17
76	Submerged versus side-stream osmotic membrane bioreactors using an outer-selective hollow fiber osmotic membrane for desalination. <i>Desalination</i> , 2021, 515, 115196.	8.2	10
77	Comprehensive analysis of a hybrid FO-NF-RO process for seawater desalination: With an NF-like FO membrane. <i>Desalination</i> , 2021, 515, 115203.	8.2	18
78	Evaluation of pretreatment and membrane configuration for pressure-retarded osmosis application to produced water from the petroleum industry. <i>Desalination</i> , 2021, 516, 115219.	8.2	5
79	Dynamic feed spacer for fouling minimization in forward osmosis process. <i>Desalination</i> , 2021, 515, 115198.	8.2	17
80	Is lithium brine water?. <i>Desalination</i> , 2021, 518, 115169.	8.2	17
81	Thermo-osmosis-Coupled Thermally Regenerative Electrochemical Cycle for Efficient Lithium Extraction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6276-6285.	8.0	18
82	Ammonia recovery from human urine as liquid fertilizers in hollow fiber membrane contactor: Effects of permeate chemistry. <i>Environmental Engineering Research</i> , 2021, 26, .	2.5	21
83	3D printing for membrane desalination: Challenges and future prospects. <i>Desalination</i> , 2021, 520, 115366.	8.2	34
84	Chemically Cross-Linked Graphene Oxide as a Selective Layer on Electrospun Polyvinyl Alcohol Nanofiber Membrane for Nanofiltration Application. <i>Nanomaterials</i> , 2021, 11, 2867.	4.1	16
85	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. <i>Water Research</i> , 2021, 207, 117810.	11.3	16
86	Sulfuric Acid Treated g-CN as a Precursor to Generate High-Efficient g-CN for Hydrogen Evolution from Water under Visible Light Irradiation. <i>Catalysts</i> , 2021, 11, 37.	3.5	9
87	ASTM Standard Modified Fouling Index for Seawater Reverse Osmosis Desalination Process: Status, Limitations, and Perspectives. <i>Separation and Purification Reviews</i> , 2020, 49, 55-67.	5.5	9
88	3D printing for membrane separation, desalination and water treatment. <i>Applied Materials Today</i> , 2020, 18, 100486.	4.3	122
89	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.	8.2	154
90	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.	9.6	12

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91	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.	7.8	14
92	Quantitative analysis of the irreversible membrane fouling of forward osmosis during wastewater reclamation: Correlation with the modified fouling index. <i>Journal of Membrane Science</i> , 2020, 597, 117757.	8.2	28
93	Comprehensive analysis of a hybrid FO/crystallization/RO process for improving its economic feasibility to seawater desalination. <i>Water Research</i> , 2020, 171, 115426.	11.3	34
94	Hollow Porous Silica Nanosphere with Single Large Pore Opening for Pesticide Loading and Delivery. <i>ACS Applied Nano Materials</i> , 2020, 3, 105-113.	5.0	33
95	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.	8.2	16
96	Fabrication of porous polyketone forward osmosis membranes modified with aromatic compounds: Improved pressure resistance and low structural parameter. <i>Separation and Purification Technology</i> , 2020, 251, 117400.	7.9	13
97	Energy recovery modeling of pressure-retarded osmosis systems with membrane modules compatible with high salinity draw streams. <i>Desalination</i> , 2020, 493, 114624.	8.2	10
98	Submerged module of outer selective hollow fiber membrane for effective fouling mitigation in osmotic membrane bioreactor for desalination. <i>Desalination</i> , 2020, 496, 114707.	8.2	2
99	Tetrabutylammonium 2,4,6-trimethylbenzenesulfonate as an effective and regenerable thermo-responsive ionic liquid drawing agent in forward osmosis for seawater desalination. <i>Desalination</i> , 2020, 495, 114635.	8.2	27
100	Engineering Heterostructured Thin-Film Nanocomposite Membrane with Functionalized Graphene Oxide Quantum Dots (GOQD) for Highly Efficient Reverse Osmosis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38662-38673.	8.0	51
101	Improving energy efficiency of pretreatment for seawater desalination during algal blooms using a novel meshed tube filtration process. <i>Desalination</i> , 2020, 486, 114477.	8.2	16
102	Urine Treatment on the International Space Station: Current Practice and Novel Approaches. <i>Membranes</i> , 2020, 10, 327.	3.0	33
103	Modified Hydrothermal Route for Synthesis of Photoactive Anatase TiO ₂ /g-CN Nanotubes from Sludge Generated TiO ₂ . <i>Catalysts</i> , 2020, 10, 1350.	3.5	6
104	Influence of hydrodynamic operating conditions on organic fouling of spiral-wound forward osmosis membranes: Fouling-induced performance deterioration in FO-RO hybrid system. <i>Water Research</i> , 2020, 185, 116154.	11.3	30
105	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. <i>Water Research</i> , 2020, 186, 116320.	11.3	17
106	Enhanced water permeability and osmotic power generation with sulfonate-functionalized porous polymer-incorporated thin film nanocomposite membranes. <i>Desalination</i> , 2020, 496, 114756.	8.2	26
107	Progress on the Fabrication and Application of Electrospun Nanofiber Composites. <i>Membranes</i> , 2020, 10, 204.	3.0	83
108	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.	8.2	29

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109	Atmospheric-pressure plasma seawater desalination: Clean energy, agriculture, and resource recovery nexus for a blue planet. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00181.	3.3	13
110	Preparation and Characterization of Photoactive Anatase TiO ₂ from Algae Bloomed Surface Water. <i>Catalysts</i> , 2020, 10, 452.	3.5	11
111	Covalent organic framework incorporated outer-selective hollow fiber thin-film nanocomposite membranes for osmotically driven desalination. <i>Desalination</i> , 2020, 485, 114461.	8.2	31
112	Controlling spherulitic structures at surface and sub-layer of hollow fiber membranes prepared using nucleation agents via triple-orifice spinneret in TIPS process. <i>Journal of Membrane Science</i> , 2020, 609, 118229.	8.2	12
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.	8.2	66
114	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. <i>Environmental Science & Technology</i> , 2020, 54, 9601-9608.	10.0	17
115	Retardation of wetting for membrane distillation by adjusting major components of seawater. <i>Water Research</i> , 2020, 175, 115677.	11.3	36
116	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.	9.3	30
117	Influence of silica nanoparticles on the desalination performance of forward osmosis polybenzimidazole membranes. <i>Desalination</i> , 2020, 491, 114441.	8.2	19
118	Evaluating the Feasibility of Forward Osmosis in Diluting RO Concentrate Using Pretreatment Backwash Water. <i>Membranes</i> , 2020, 10, 35.	3.0	3
119	Hybrid membrane distillation: Resource, nutrient and energy recovery. <i>Journal of Membrane Science</i> , 2020, 599, 117832.	8.2	90
120	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	8.2	177
121	Electrochemical Oxidation-Membrane Distillation Hybrid Process: Utilizing Electric Resistance Heating for Distillation and Membrane Defouling through Thermal Activation of Anodically Formed Persulfate. <i>Environmental Science & Technology</i> , 2020, 54, 1867-1877.	10.0	48
122	Staged voltage mode in membrane capacitive deionization: Comparison with constant voltage and constant current modes. <i>Desalination</i> , 2020, 479, 114327.	8.2	5
123	Feasibility study of reverse osmosis-flow capacitive deionization (RO-FCDI) for energy-efficient desalination using seawater as the flow-electrode aqueous electrolyte. <i>Desalination</i> , 2020, 479, 114326.	8.2	34
124	Removal of Organic Micro-Pollutants by Conventional Membrane Bioreactors and High-Retention Membrane Bioreactors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2969.	2.5	26
125	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020, 484, 114421.	8.2	58
126	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.	8.2	25

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127	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. <i>Desalination</i> , 2020, 485, 114455.	8.2	194
128	Free-standing, thin-film, symmetric membranes: Next-generation membranes for engineered osmosis. <i>Journal of Membrane Science</i> , 2020, 607, 118145.	8.2	14
129	Pilot-scale membrane capacitive deionisation for effective bromide removal and high water recovery in seawater desalination. <i>Desalination</i> , 2020, 479, 114309.	8.2	40
130	Conceptual design of a dynamic turbospacer for efficient low pressure membrane filtration. <i>Desalination</i> , 2020, 496, 114712.	8.2	26
131	Applications of nano-porous graphene materials – critical review on performance and challenges. <i>Materials Horizons</i> , 2020, 7, 1218-1245.	12.2	64
132	Energy efficient 3D printed column type feed spacer for membrane filtration. <i>Water Research</i> , 2019, 164, 114961.	11.3	67
133	Municipal wastewater treatment by forward osmosis using seawater concentrate as draw solution. <i>Chemosphere</i> , 2019, 237, 124485.	8.2	36
134	High-Efficiency Solar Desalination Accompanying Electrocatalytic Conversions of Desalted Chloride and Captured Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15320-15328.	6.7	32
135	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2019, 248, 109240.	7.8	26
136	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. <i>Chemosphere</i> , 2019, 236, 124289.	8.2	16
137	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. <i>Science of the Total Environment</i> , 2019, 688, 787-796.	8.0	42
138	Wastewater management in urban Bhutan: Assessing the current practices and challenges. <i>Chemical Engineering Research and Design</i> , 2019, 132, 82-93.	5.6	22
139	Preparation and characterization of TiO ₂ generated from synthetic wastewater using TiCl ₄ based coagulation/flocculation aided with Ca(OH) ₂ . <i>Journal of Environmental Management</i> , 2019, 250, 109521.	7.8	10
140	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. <i>Journal of Environmental Management</i> , 2019, 251, 109524.	7.8	76
141	The effects of naturally occurring operation factors on the removal mechanism of major algae metabolized materials in forward osmosis process. <i>Journal of Cleaner Production</i> , 2019, 239, 118009.	9.3	12
142	Evaluation of ethanol as draw solute for forward osmosis (FO) process of highly saline (waste)water. <i>Desalination</i> , 2019, 456, 23-31.	8.2	17
143	The application of forward osmosis for simulated surface water treatment by using trisodium citrate as draw solute. <i>Environmental Science and Pollution Research</i> , 2019, 26, 8585-8593.	5.3	4
144	Defect-free outer-selective hollow fiber thin-film composite membranes for forward osmosis applications. <i>Journal of Membrane Science</i> , 2019, 586, 281-291.	8.2	47

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145	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.	8.2	19
146	Removal behaviors and fouling mechanisms of charged antibiotics and nanoparticles on forward osmosis membrane. <i>Journal of Environmental Management</i> , 2019, 247, 385-393.	7.8	17
147	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.	6.7	10
148	Human urine as a forward osmosis draw solution for the application of microalgae dewatering. <i>Journal of Hazardous Materials</i> , 2019, 378, 120724.	12.4	41
149	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. <i>Journal of Membrane Science</i> , 2019, 584, 20-45.	8.2	128
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