

Reverse osmosis desalination: Water sources, technology

Water Research

43, 2317-2348

DOI: [10.1016/j.watres.2009.03.010](https://doi.org/10.1016/j.watres.2009.03.010)

Citation Report

#	ARTICLE	IF	CITATIONS
4	Retention of cadmium ions from aqueous solutions by poly(ammonium acrylate) enhanced ultrafiltration. <i>Chemical Engineering Journal</i> , 2009, 155, 138-143.	6.6	18
5	Evaluating the potential for zero discharge from reverse osmosis desalination using integrated processes – A review. <i>Desalination and Water Treatment</i> , 2009, 11, 58-65.	1.0	32
6	Membrane hybrid processes for pretreatment before seawater reverse osmosis desalination. <i>Desalination and Water Treatment</i> , 2009, 9, 279-286.	1.0	13
7	Preparation, characterization of wheat residue based anion exchangers and its utilization for the phosphate removal from aqueous solution. <i>Carbohydrate Polymers</i> , 2010, 82, 1212-1218.	5.1	46
8	Electrodialytic desalination of brackish water: effect of process parameters and water characteristics. <i>Ionics</i> , 2010, 16, 621-629.	1.2	31
9	Can Metal-Organic Framework Materials Play a Useful Role in Large-Scale Carbon Dioxide Separations?. <i>ChemSusChem</i> , 2010, 3, 879-891.	3.6	556
10	Boron removal by reverse osmosis membranes in seawater desalination applications. <i>Separation and Purification Technology</i> , 2010, 75, 87-101.	3.9	234
11	Adsorptive removal of nitrilotris(methylenephosphonic acid) antiscalant from membrane concentrates by iron-coated waste filtration sand. <i>Journal of Hazardous Materials</i> , 2010, 182, 855-862.	6.5	31
12	Chemical cleaning of biofouling in reverse osmosis membranes evaluated using magnetic resonance imaging. <i>Journal of Membrane Science</i> , 2010, 362, 202-210.	4.1	112
13	Modeling the effect of biofilm formation on reverse osmosis performance: Flux, feed channel pressure drop and solute passage. <i>Journal of Membrane Science</i> , 2010, 365, 1-15.	4.1	100
14	Characterization of a sulfonated pentablock copolymer for desalination applications. <i>Polymer</i> , 2010, 51, 5815-5822.	1.8	160
15	Coupling of copper-chloride hybrid thermochemical water splitting cycle with a desalination plant for hydrogen production from nuclear energy. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1560-1574.	3.8	54
16	Immediate assisted solar direct contact membrane distillation in saline water desalination. <i>Journal of Membrane Science</i> , 2010, 358, 122-130.	4.1	86
17	Electrical conductivity of seawater during ohmic heating. <i>Desalination</i> , 2010, 260, 9-17.	4.0	56
18	A cost effective method for improving the quality of inland desalinated brackish water destined for agricultural irrigation. <i>Desalination</i> , 2010, 262, 152-160.	4.0	24
19	Optimal time-dependent operation of seawater reverse osmosis. <i>Desalination</i> , 2010, 263, 76-88.	4.0	103
20	Autopsy of SWRO membranes from desalination plant in Ceuta after 8years in operation. <i>Desalination</i> , 2010, 263, 264-270.	4.0	23
21	Water purification by membranes: The role of polymer science. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1685-1718.	2.4	798

#	ARTICLE	IF	CITATIONS
22	Direct seawater desalination by ion concentration polarization. Nature Nanotechnology, 2010, 5, 297-301.	15.6	678
23	Development of an integrated reverse osmosis-greenhouse system driven by solar photovoltaic generators. Desalination and Water Treatment, 2010, 22, 161-173.	1.0	10
24	Desalination/concentration of reverse osmosis and electro dialysis brines with membrane distillation. Desalination and Water Treatment, 2010, 24, 293-301.	1.0	21
25	Hybrid wind energy systems for desalination. , 2010, , 506-535.		3
26	Synthesis of Carbonaceous Poly(furfuryl alcohol) Membrane for Water Desalination. Industrial & Engineering Chemistry Research, 2010, 49, 4175-4180.	1.8	39
27	Integrated Membrane Process for the Treatment of Desulfurization Wastewater. Industrial & Engineering Chemistry Research, 2010, 49, 3337-3341.	1.8	18
28	Vacuum membrane distillation of seawater reverse osmosis brines. Water Research, 2010, 44, 5260-5273.	5.3	281
29	Recent developments in reverse osmosis desalination membranes. Journal of Materials Chemistry, 2010, 20, 4551.	6.7	458
30	Membrane Systems for Seawater and Brackish Water Desalination. , 2010, , 241-257.		7
31	Experiment on Stable Operating Conditions of a Dual-Effect Desalination System. Desalination and Water Treatment, 2010, 15, 167-171.	1.0	0
32	Solar thermal electricity generation and desalination in the Southwestern United States. , 2010, , .		6
33	Environmental life cycle assessment of brackish water reverse osmosis desalination for different electricity production models. Energy and Environmental Science, 2011, 4, 2267.	15.6	50
34	Photochemical Oxidation Removal of NO and SO ₂ from Simulated Flue Gas of Coal-Fired Power Plants by Wet Scrubbing Using UV/H ₂ O ₂ Advanced Oxidation Process. Industrial & Engineering Chemistry Research, 2011, 50, 3836-3841.	1.8	121
35	Zeta Potential of Ion-Conductive Membranes by Streaming Current Measurements. Langmuir, 2011, 27, 4721-4727.	1.6	86
36	Optimization of the reverse osmosis seawater demineralization technologies for a power producing industry. Desalination and Water Treatment, 2011, 25, 84-90.	1.0	3
37	A low-energy forward osmosis process to produce drinking water. Energy and Environmental Science, 2011, 4, 2582.	15.6	121
38	Carboxymethyl Inulin Biopolymers: A Green Alternative for Phosphonate Calcium Carbonate Growth Inhibitors. Crystal Growth and Design, 2011, 11, 4155-4165.	1.4	45
39	Preparation and characterization of surface-modified zeolite-polyamide thin film nanocomposite membranes for desalination. Desalination and Water Treatment, 2011, 34, 6-12.	1.0	59

#	ARTICLE	IF	CITATIONS
40	Energy consumption and recovery in reverse osmosis. <i>Desalination and Water Treatment</i> , 2011, 36, 239-260.	1.0	171
41	Zeolitic imidazolate framework-8 as a reverse osmosis membrane for water desalination: Insight from molecular simulation. <i>Journal of Chemical Physics</i> , 2011, 134, 134705.	1.2	182
42	Drinking Water Treatment. , 2011, , .		15
43	Development of Robust Organosilica Membranes for Reverse Osmosis. <i>Langmuir</i> , 2011, 27, 13996-13999.	1.6	118
44	Electrostatic-driven pattern formation in fibers, nanotubes and pores. <i>Soft Matter</i> , 2011, 7, 1456.	1.2	17
45	Energy minimization strategies and renewable energy utilization for desalination: A review. <i>Water Research</i> , 2011, 45, 1907-1920.	5.3	247
46	Treatment of nanofiltration and reverse osmosis concentrates: Comparison of precipitative softening, coagulation, and anion exchange. <i>Water Research</i> , 2011, 45, 4855-4865.	5.3	60
47	Seawater quality and microbial communities at a desalination plant marine outfall. A field study at the Israeli Mediterranean coast. <i>Water Research</i> , 2011, 45, 5449-5462.	5.3	50
48	Adsorption combined with ultrafiltration to remove organic matter from seawater. <i>Water Research</i> , 2011, 45, 6362-6370.	5.3	40
49	Effect of Free Volume on Water and Salt Transport Properties in Directly Copolymerized Disulfonated Poly(arylene ether sulfone) Random Copolymers. <i>Macromolecules</i> , 2011, 44, 4428-4438.	2.2	133
50	Froth Flotation in Saline Water. <i>KONA Powder and Particle Journal</i> , 2011, 29, 4-15.	0.9	51
51	Preparation, Characterization and Performance of Templated Silica Membranes in Non-Osmotic Desalination. <i>Materials</i> , 2011, 4, 845-856.	1.3	1
52	The effect of UV pre-treatment on biofouling of BWRO membranes: A field study. <i>Desalination and Water Treatment</i> , 2011, 31, 151-163.	1.0	24
53	Membrane-Based Desalination. <i>Water Intelligence Online</i> , 2011, 10, 9781780400914.	0.3	5
54	Squeezing out hydrated protons: low-frictional-energy triboelectric insulator charging on a microscopic scale. <i>AIP Advances</i> , 2011, 1, .	0.6	43
55	Effect of testing conditions and filtration mechanisms on SDI. <i>Journal of Membrane Science</i> , 2011, 381, 142-151.	4.1	33
56	Scale formation and control in high pressure membrane water treatment systems: A review. <i>Journal of Membrane Science</i> , 2011, 383, 1-16.	4.1	519
57	Highly water soluble and recovered dextran coated Fe ₃ O ₄ magnetic nanoparticles for brackish water desalination. <i>Separation and Purification Technology</i> , 2011, 81, 392-399.	3.9	107

#	ARTICLE	IF	CITATIONS
58	The effects of pretreatment on nanofiltration and reverse osmosis membrane filtration for desalination of oil sands process-affected water. <i>Separation and Purification Technology</i> , 2011, 81, 418-428.	3.9	88
59	Synthesis and characterization of polyoxazoline-polysulfone triblock copolymers. <i>Polymer</i> , 2011, 52, 4718-4726.	1.8	23
60	Techniques for characterization of polyamide thin film composite membranes. <i>Desalination</i> , 2011, 282, 78-86.	4.0	53
61	Environmental life cycle assessment of reverse osmosis desalination: The influence of different life cycle impact assessment methods on the characterization results. <i>Desalination</i> , 2011, 283, 227-236.	4.0	74
62	Effects of working temperature on separation performance, membrane scaling and cleaning in forward osmosis desalination. <i>Desalination</i> , 2011, 278, 157-164.	4.0	196
63	Pilot study on the ceramic membrane pre-treatment for seawater desalination with reverse osmosis in Tianjin Bohai Bay. <i>Desalination</i> , 2011, 279, 190-194.	4.0	35
64	Adsorption of bisphenol A and 17 β -ethinyl estradiol on single walled carbon nanotubes from seawater and brackish water. <i>Desalination</i> , 2011, 281, 68-74.	4.0	163
65	Nanostructured materials for water desalination. <i>Nanotechnology</i> , 2011, 22, 292001.	1.3	543
66	Reversible Ion Exchange-Membrane (RIX-M) Process for Fouling Free and Energy Efficient Desalination of Seawater. <i>ACS Symposium Series</i> , 2011, , 285-301.	0.5	0
67	Comparison of the Permeation of MgCl ₂ versus NaCl in Highly Charged Sulfonated Polymer Membranes. <i>ACS Symposium Series</i> , 2011, , 239-245.	0.5	2
68	Ion transport in the polyamide layer of RO membranes: Composite membranes and free-standing films. <i>Journal of Membrane Science</i> , 2011, 367, 119-126.	4.1	46
69	Implementation of layer-by-layer chemical deposition technique for static removal of magnesium from various matrices. <i>Chemical Engineering Journal</i> , 2011, 171, 181-189.	6.6	11
70	Removal of fluoride from aqueous solution onto Zr-loaded garlic peel (Zr-GP) particles. <i>Journal of Central South University</i> , 2011, 18, 1448-1453.	1.2	18
71	Preliminary study of groundwater denitrification using a composite membrane bioreactor. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 604-609.	0.8	5
72	Evaluation of systems coupling vacuum membrane distillation and solar energy for seawater desalination. <i>Chemical Engineering Journal</i> , 2011, 166, 596-606.	6.6	166
73	Mass-transfer modeling of reverse-osmosis performance on 0.5% salty water. <i>Desalination</i> , 2011, 265, 67-73.	4.0	20
74	Advanced treatment of wastewater from an iron and steel enterprise by a constructed wetland/ultrafiltration/reverse osmosis process. <i>Desalination</i> , 2011, 269, 41-49.	4.0	44
75	Fundamental chemistry and engineering aspects of post-treatment processes for desalinated water: A review. <i>Desalination</i> , 2011, 273, 6-22.	4.0	91

#	ARTICLE	IF	CITATIONS
76	Adsorptive removal of Cu(II) and Ni(II) ions from aqueous media by chemical immobilization of three different aldehydes. <i>Desalination</i> , 2011, 271, 92-99.	4.0	45
77	Surface modification of a commercial thin film composite polyamide reverse osmosis membrane by carbodiimide-induced grafting with poly(ethylene glycol) derivatives. <i>Desalination</i> , 2011, 275, 252-259.	4.0	101
78	The economics of pressure-relief with CO ₂ injection. <i>Energy Procedia</i> , 2011, 4, 4215-4220.	1.8	14
79	Water filtration performance of a lyotropic liquid crystal polymer membrane with uniform, sub-1-nm pores. <i>Journal of Membrane Science</i> , 2011, 366, 62-72.	4.1	57
80	Surface modification of commercial polyamide desalination membranes using poly(ethylene glycol) diglycidyl ether to enhance membrane fouling resistance. <i>Journal of Membrane Science</i> , 2011, 367, 273-287.	4.1	209
81	Surface modification of thin-film composite polyamide reverse osmosis membranes by coating N-isopropylacrylamide-co-acrylic acid copolymers for improved membrane properties. <i>Journal of Membrane Science</i> , 2011, 371, 293-306.	4.1	108
82	Electrodialysis on RO concentrate to improve water recovery in wastewater reclamation. <i>Journal of Membrane Science</i> , 2011, 378, 101-110.	4.1	147
83	Water permeability and water/salt selectivity tradeoff in polymers for desalination. <i>Journal of Membrane Science</i> , 2011, 369, 130-138.	4.1	641
84	Effect of added NaX nano-zeolite into polyamide as a top thin layer of membrane on water flux and salt rejection in a reverse osmosis process. <i>Journal of Membrane Science</i> , 2011, 375, 88-95.	4.1	304
85	Dead-end and tangential ultrafiltration of natural salted water: Influence of operating parameters on specific energy consumption. <i>Journal of Membrane Science</i> , 2011, 380, 192-198.	4.1	32
86	Flux decline during cross flow membrane filtration of electrolytic solution in presence of charged nano-colloids: A simple electrokinetic model. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 530-536.	5.0	11
87	Fundamental salt and water transport properties in directly copolymerized disulfonated poly(arylene) Tj ETQq1 1 0.784314 rgBT /Ove 1.8 912	1.8	912
88	Glass transition behaviors of interfacially polymerized polyamide barrier layers on thin film composite membranes via nano-thermal analysis. <i>Polymer</i> , 2011, 52, 2643-2649.	1.8	48
89	Dual media filtration and ultrafiltration as pretreatment options of low-turbidity seawater reverse osmosis processes. <i>Desalination and Water Treatment</i> , 2011, 33, 329-336.	1.0	12
90	Active Nanoporous Membranes for Desalination. , 2011, , .		1
91	Analysis of energy usage at membrane water treatment plants. <i>Desalination and Water Treatment</i> , 2011, 29, 63-72.	1.0	16
92	Preparation, Characterization and Performance of Templated Silica Membranes in Non-Osmotic Desalination. <i>Materials</i> , 2011, 4, 845-856.	1.3	40
93	Reverse Osmosis and Membrane Distillation for Desalination of Groundwater: A Review. <i>ISRN Materials Science</i> , 2011, 2011, 1-9.	1.0	110

#	ARTICLE	IF	CITATIONS
94	Analyses of calcium carbonate scale deposition on four RO membranes under a seawater desalination condition. <i>Water Science and Technology</i> , 2011, 64, 1573-1580.	1.2	22
95	Laboratory and Field Evaluation of a Pretreatment System for Removing Organics from Produced Water. <i>Water Environment Research</i> , 2011, 83, 843-854.	1.3	15
96	Electrosorption Desalination by Activated Carbon Fibers Electrode. <i>Advanced Materials Research</i> , 0, 610-613, 1710-1717.	0.3	0
97	Integrated Optimization of a Solar-Powered Humidification-Dehumidification Desalination System for Small Communities. , 2012, , .		3
98	Pilot tests of fluid-switcher energy recovery device for seawater reverse osmosis desalination system. <i>Desalination and Water Treatment</i> , 2012, 48, 310-314.	1.0	8
99	A comparative study of ultrafiltration and physicochemical process as pretreatment of seawater reverse osmosis. <i>Desalination and Water Treatment</i> , 2012, 42, 73-79.	1.0	5
100	Methods and Apparatuses for Advanced Drinking Water Treatment. <i>Recent Patents on Engineering</i> , 2012, 6, 48-57.	0.3	0
101	Microporous Silica Based Membranes for Desalination. <i>Water (Switzerland)</i> , 2012, 4, 629-649.	1.2	91
102	Comparison of Configurations for High-Recovery Inland Desalination Systems. <i>Water (Switzerland)</i> , 2012, 4, 690-706.	1.2	72
103	Demonstration of more than 30% of energy saving by the seawater desalination system combined with wastewater treatment system. <i>Water Practice and Technology</i> , 2012, 7, .	1.0	4
104	Structural and chemical characterization of long-term reverse osmosis membrane fouling in a full scale desalination plant. <i>Desalination</i> , 2012, 305, 44-53.	4.0	63
105	Development of Novel Acoustic Sensor for Early Detection of Biofouling in Reverseosmosis Systems. <i>Procedia Engineering</i> , 2012, 44, 562-566.	1.2	1
106	Enhancing antifouling property of commercial polyamide reverse osmosis membrane by surface coating using a brush-like polymer containing poly (ethylene glycol) chains. <i>Desalination and Water Treatment</i> , 2012, 37, 139-145.	1.0	22
107	Treatment of RO concentrate by means of a combination of a willow field and electro dialysis. <i>Resources, Conservation and Recycling</i> , 2012, 65, 116-123.	5.3	35
108	Expert stakeholder attitudes and support for alternative water sources in a groundwater depleted region. <i>Science of the Total Environment</i> , 2012, 437, 245-254.	3.9	11
109	State of the art and review on the treatment technologies of water reverse osmosis concentrates. <i>Water Research</i> , 2012, 46, 267-283.	5.3	606
110	Complete nutrient recovery from source-separated urine by nitrification and distillation. <i>Water Research</i> , 2012, 46, 453-464.	5.3	234
111	Development of antifouling reverse osmosis membranes for water treatment: A review. <i>Water Research</i> , 2012, 46, 584-600.	5.3	767

#	ARTICLE	IF	CITATIONS
112	Emergency water supply: A review of potential technologies and selection criteria. <i>Water Research</i> , 2012, 46, 3125-3151.	5.3	204
113	Thermodynamic and Energy Efficiency Analysis of Power Generation from Natural Salinity Gradients by Pressure Retarded Osmosis. <i>Environmental Science & Technology</i> , 2012, 46, 5230-5239.	4.6	301
114	Strategies for the removal of halides from drinking water sources, and their applicability in disinfection by-product minimisation: A critical review. <i>Journal of Environmental Management</i> , 2012, 110, 276-298.	3.8	116
115	Rejection of pharmaceuticals by forward osmosis membranes. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 55-61.	6.5	159
116	Seawater desalination for agriculture by integrated forward and reverse osmosis: Improved product water quality for potentially less energy. <i>Journal of Membrane Science</i> , 2012, 415-416, 1-8.	4.1	259
117	Influence of temperature and temperature difference in the performance of forward osmosis desalination process. <i>Journal of Membrane Science</i> , 2012, 415-416, 734-744.	4.1	130
118	Time-dependent ion selectivity in capacitive charging of porous electrodes. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 38-44.	5.0	213
119	Exploring microbial communities and differences of cartridge filters (CFs) and reverse osmosis (RO) membranes for seawater desalination processes. <i>Desalination</i> , 2012, 298, 85-92.	4.0	28
120	Eausmose project desalination by reverse osmosis and batteryless solar energy: Design for a 1m ³ per day delivery. <i>Desalination</i> , 2012, 301, 67-74.	4.0	46
121	Hollow fiber-based liquid-liquid micro-extraction with osmosis: I. Theoretical simulation and verification. <i>Journal of Chromatography A</i> , 2012, 1248, 32-40.	1.8	2
122	Highly Permeable Polymer Membranes Containing Directed Channels for Water Purification. <i>ACS Macro Letters</i> , 2012, 1, 723-726.	2.3	154
123	Desalination and hydrogen, chlorine, and sodium hydroxide production via electrophoretic ion exchange and precipitation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11534.	1.3	17
124	Adsorption of Phosphonate Antiscalant from Reverse Osmosis Membrane Concentrate onto Granular Ferric Hydroxide. <i>Environmental Science & Technology</i> , 2012, 46, 9638-9645.	4.6	58
125	Effective design of reverse osmosis based desalination process considering wide range of salinity and seawater temperature. <i>Desalination</i> , 2012, 306, 8-16.	4.0	56
126	Development of hollow fiber membranes for water and salt recovery from highly concentrated brine via direct contact membrane distillation and crystallization. <i>Journal of Membrane Science</i> , 2012, 421-422, 111-123.	4.1	108
127	Silica and silicate precipitation as limiting factors in high-recovery reverse osmosis operations. <i>Journal of Membrane Science</i> , 2012, 423-424, 1-10.	4.1	47
128	Sodium chloride sorption in sulfonated polymers for membrane applications. <i>Journal of Membrane Science</i> , 2012, 423-424, 195-208.	4.1	128
129	Mechanisms of RO Membrane Fouling by Surfactants: A Combination of Experiments and Simulation Studies. <i>Procedia Engineering</i> , 2012, 44, 1751-1752.	1.2	0

#	ARTICLE	IF	CITATIONS
130	Reuse of SWRO brine for the production of carotenoids from <i>Dunaliella salina</i> and removal of macronutrients. <i>Desalination and Water Treatment</i> , 2012, 49, 115-122.	1.0	7
132	Reverse Permeation of Weak Electrolyte Draw Solute in Forward Osmosis. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13463-13472.	1.8	23
134	Seawater Desalination Using Modified Ceramic Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5900-5904.	1.8	11
136	Optimal Membrane Desalination Network Synthesis with Detailed Water Quality Information. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 520-524.	0.3	2
137	Advanced Electrochemical Oxidation of Ultrafiltration Permeates from Cellulose Bleaching Effluents. <i>Journal of Advanced Oxidation Technologies</i> , 2012, 15, .	0.5	0
138	Hydrogels for <i>in situ</i> encapsulation of biomimetic membrane arrays. <i>Polymers for Advanced Technologies</i> , 2012, 23, 182-189.	1.6	24
139	Water Desalination Using Capacitive Deionization with Microporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1194-1199.	4.0	374
140	Chemical treatment technologies for waste-water recycling – an overview. <i>RSC Advances</i> , 2012, 2, 6380.	1.7	1,313
141	Fertiliser drawn forward osmosis desalination: the concept, performance and limitations for fertigation. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 147-168.	3.9	108
142	Effect of flow velocity, substrate concentration and hydraulic cleaning on biofouling of reverse osmosis feed channels. <i>Chemical Engineering Journal</i> , 2012, 188, 30-39.	6.6	82
143	Efficient technologies for worldwide clean water supply. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 51, 2-17.	1.8	128
144	Interfacially polymerized polyamide thin film composite membranes: Preparation, characterization and performance evaluation. <i>Desalination</i> , 2012, 287, 310-316.	4.0	61
145	Brackish water desalination by a hybrid forward osmosis – nanofiltration system using divalent draw solute. <i>Desalination</i> , 2012, 284, 175-181.	4.0	208
146	The effect of pH on the formation of a gypsum scale in the presence of a phosphonate antiscalant. <i>Desalination</i> , 2012, 284, 207-220.	4.0	44
147	The application of the Bacterial Regrowth Potential method and Flow Cytometry for biofouling detection at the Penneshaw Desalination Plant in South Australia. <i>Desalination</i> , 2012, 284, 245-252.	4.0	22
148	Seawater Reverse Osmosis (SWRO) desalination by thin-film composite membrane – Current development, challenges and future prospects. <i>Desalination</i> , 2012, 287, 228-237.	4.0	270
149	Technical evaluation of stand-alone solar powered membrane distillation systems. <i>Desalination</i> , 2012, 286, 332-341.	4.0	136
150	Physical and chemical assessment of MSF distillate and SWRO product for drinking purpose. <i>Desalination</i> , 2012, 290, 107-114.	4.0	24

#	ARTICLE	IF	CITATIONS
151	An analysis of input choice, input prices, and environmental factors on the costs of seawater reverse osmosis systems. <i>Desalination</i> , 2012, 291, 48-55.	4.0	4
152	Evaluation of quaternary phosphonium-based polymer membranes for desalination application. <i>Desalination</i> , 2012, 292, 119-123.	4.0	15
153	Removal of natural organic matter from potential drinking water sources by combined coagulation and adsorption using carbon nanomaterials. <i>Separation and Purification Technology</i> , 2012, 95, 64-72.	3.9	97
154	Laccase-catalyzed modification of PES membranes with 4-hydroxybenzoic acid and gallic acid. <i>Journal of Membrane Science</i> , 2012, 394-395, 69-79.	4.1	17
155	Intensified cleaning of organic-fouled reverse osmosis membranes by thermo-responsive polymer (TRP). <i>Journal of Membrane Science</i> , 2012, 392-393, 181-191.	4.1	22
156	Polyamide interfacial composite membranes prepared from m-phenylene diamine, trimesoyl chloride and a new disulfonated diamine. <i>Journal of Membrane Science</i> , 2012, 403-404, 152-161.	4.1	321
157	Aquaporin-embedded biomimetic membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2012, 407-408, 27-33.	4.1	139
158	Combining coagulation, softening and flocculation to dispose reverse osmosis retentates. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 926-933.	2.9	24
159	Alcohol-induced change of reverse osmosis polyamide membrane surface. <i>Journal of Applied Polymer Science</i> , 2012, 124, E290.	1.3	7
160	Setting-up of modified fouling index (MFI) and crossflow sampler-modified fouling index (CFS-MFI) measurement devices for NF/RO fouling. <i>Journal of Membrane Science</i> , 2013, 435, 165-175.	4.1	16
161	Waste biomass adsorbents for copper removal from industrial wastewater—A review. <i>Journal of Hazardous Materials</i> , 2013, 263, 322-333.	6.5	444
162	Reverse osmosis performance of organosilica membranes and comparison with the pervaporation and gas permeation properties. <i>AIChE Journal</i> , 2013, 59, 1298-1307.	1.8	53
163	Silver-PEGylated dendrimer nanocomposite coating for anti-fouling thin film composite membranes for water treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 207-214.	2.3	102
164	Research on refurbishing of the used RO membrane through chemical cleaning and repairing with a new system. <i>Desalination</i> , 2013, 320, 49-55.	4.0	10
165	Comparison of DMF and UF pre-treatments for particulate material and dissolved organic matter removal in SWRO desalination. <i>Desalination</i> , 2013, 322, 144-150.	4.0	41
166	Effects of chemical agent injections on genotoxicity of wastewater in a microfiltration-reverse osmosis membrane process for wastewater reuse. <i>Journal of Hazardous Materials</i> , 2013, 260, 231-237.	6.5	45
167	Selective removal of arsenic and monovalent ions from brackish water reverse osmosis concentrate. <i>Journal of Hazardous Materials</i> , 2013, 260, 885-891.	6.5	100
168	Surface modification of a commercial thin-film composite polyamide reverse osmosis membrane through graft polymerization of N-isopropylacrylamide followed by acrylic acid. <i>Journal of Membrane Science</i> , 2013, 447, 236-245.	4.1	120

#	ARTICLE	IF	CITATIONS
169	Ammonium Bicarbonate Transport in Anion Exchange Membranes for Salinity Gradient Energy. ACS Macro Letters, 2013, 2, 814-817.	2.3	29
170	Characterization of biofilm bacteria isolated from two distinct seawater reverse osmosis systems in Saudi Arabia. Desalination and Water Treatment, 2013, 51, 1855-1860.	1.0	5
171	Validity of the Boltzmann equation to describe Donnan equilibrium at the membrane-solution interface. Journal of Membrane Science, 2013, 442, 131-139.	4.1	126
172	Electrodialysis in an Integrated NF/ED Process for Water Recovery in the Leather Industry. Separation Science and Technology, 2013, 48, 445-454.	1.3	8
173	Optimizing and scheduling of super large-scale seawater reverse osmosis desalination system. , 2013, , .		0
174	Effects of blending of desalinated and conventionally treated surface water on iron corrosion and its release from corroding surfaces and pre-existing scales. Water Research, 2013, 47, 3817-3826.	5.3	41
175	Experimental evaluation on concentrating cooling tower blowdown water by direct contact membrane distillation. Desalination, 2013, 323, 134-141.	4.0	44
176	Desalination and Reuse of High-Salinity Shale Gas Produced Water: Drivers, Technologies, and Future Directions. Environmental Science & Technology, 2013, 47, 9569-9583.	4.6	655
177	Investigation on high NF permeate recovery and scaling potential prediction in NF-SWRO integrated membrane operation. Desalination, 2013, 330, 61-69.	4.0	26
178	Characterization of fluid dynamics in spacer-filled channels for membrane filtration using Doppler optical coherence tomography. Journal of Membrane Science, 2013, 448, 198-208.	4.1	50
179	An Integrated Economic and Engineering Assessment of Opportunities for CO2 Injection with Water Production in South-East Queensland, Australia. Energy Procedia, 2013, 37, 4544-4551.	1.8	3
180	Novel Hemicellulose-Chitosan Biosorbent for Water Desalination and Heavy Metal Removal. ACS Sustainable Chemistry and Engineering, 2013, 1, 1102-1109.	3.2	124
181	Numerical models of solar distillation device: Present and previous. Desalination, 2013, 311, 173-181.	4.0	26
182	A Natural Driven Membrane Process for Brackish and Wastewater Treatment: Photovoltaic Powered ED and FO Hybrid System. Environmental Science & Technology, 2013, 47, 10548-10555.	4.6	91
183	Low Energy Direct Contact Membrane Distillation: Towards optimal flow configuration. , 2013, , .		3
184	The influence of antiscalants on biofouling of RO membranes in seawater desalination. Water Research, 2013, 47, 3389-3398.	5.3	86
185	Bioflocculation: Chemical free, pre-treatment technology for the desalination industry. Water Research, 2013, 47, 3093-3102.	5.3	21
186	Evaluation of chemically-enhanced seeded precipitation of RO concentrate for high recovery desalting of high salinity brackish water. Desalination, 2013, 317, 116-126.	4.0	41

#	ARTICLE	IF	CITATIONS
187	Theoretical analysis of a seawater desalination process integrating forward osmosis, crystallization, and reverse osmosis. <i>Journal of Membrane Science</i> , 2013, 444, 440-448.	4.1	27
188	The Science of Clays. , 2013, , .		23
189	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. <i>Environmental Technology Reviews</i> , 2013, 2, 55-70.	2.1	20
190	Energy recovery from concentrated seawater brine by thin-film nanofiber composite pressure retarded osmosis membranes with high power density. <i>Energy and Environmental Science</i> , 2013, 6, 1199.	15.6	179
191	Theoretical study on feed water designs to reverse osmosis pressure vessel. <i>Desalination</i> , 2013, 326, 1-9.	4.0	13
192	Effect of solution salinity on settling of mineral tailings by polymer flocculants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 430, 29-38.	2.3	77
193	Offshore fresh groundwater reserves as a global phenomenon. <i>Nature</i> , 2013, 504, 71-78.	13.7	245
194	Strategies for improving the performance of the polyamide thin film composite (PA-TFC) reverse osmosis (RO) membranes: Surface modifications and nanoparticles incorporations. <i>Desalination</i> , 2013, 328, 83-100.	4.0	227
195	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. <i>Desalination</i> , 2013, 314, 115-123.	4.0	43
196	Production and characterisation of UF membranes by chemical conversion of used RO membranes. <i>Journal of Membrane Science</i> , 2013, 447, 203-211.	4.1	60
197	Potential impacts of discharges from seawater reverse osmosis on Taiwan marine environment. <i>Desalination</i> , 2013, 322, 84-93.	4.0	18
198	A case for an ecological-economic research program for desalination. <i>Desalination</i> , 2013, 324, 72-78.	4.0	14
199	Molecular Characterization of Dissolved Organic Matter through a Desalination Process by High Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2013, 47, 9619-9627.	4.6	54
200	Impact of gypsum supersaturated solution on surface properties of silica and sphalerite minerals. <i>Minerals Engineering</i> , 2013, 46-47, 6-15.	1.8	19
201	Seawater desalination in Mexican Pacific coast by a new technology: use and perspectives. <i>Desalination and Water Treatment</i> , 2013, 51, 175-183.	1.0	2
202	Direct prediction of the desalination performance of porous carbon electrodes for capacitive deionization. <i>Energy and Environmental Science</i> , 2013, 6, 3700.	15.6	461
203	Adsorption characteristics of Ni(II) from aqueous solution and industrial wastewater onto Polyaniline/HMS nanocomposite powder. <i>Applied Surface Science</i> , 2013, 284, 13-22.	3.1	90
204	Draw solutions for forward osmosis processes: Developments, challenges, and prospects for the future. <i>Journal of Membrane Science</i> , 2013, 442, 225-237.	4.1	400

#	ARTICLE	IF	CITATIONS
205	Improving fouling resistance of thin-film composite polyamide reverse osmosis membrane by coating natural hydrophilic polymer sericin. <i>Separation and Purification Technology</i> , 2013, 118, 285-293.	3.9	81
206	Thermodynamic modeling of ternary and quaternary (liquid+liquid) systems containing water, FeCl ₃ , HCl and diisopropyl ether. <i>Journal of Chemical Thermodynamics</i> , 2013, 67, 83-90.	1.0	0
207	Continuous reuse of water and electrolyte from decolorized reactive dye baths. <i>Desalination and Water Treatment</i> , 2013, 51, 4593-4602.	1.0	4
208	Water desalination and challenges: The Middle East perspective: a review. <i>Desalination and Water Treatment</i> , 2013, 51, 2030-2040.	1.0	113
209	A multicriteria analysis for the optimal desalination RES system. Special focus: the small Greek islands. <i>Desalination and Water Treatment</i> , 2013, 51, 1205-1218.	1.0	13
210	Study on mass production of aquaporinZ for biomimetic water purification membrane. <i>Desalination and Water Treatment</i> , 2013, 51, 6370-6377.	1.0	7
211	Graphene oxide-chitosan composite hydrogels as broad-spectrum adsorbents for water purification. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1992-2001.	5.2	582
212	A novel hybrid process of reverse electrodialysis and reverse osmosis for low energy seawater desalination and brine management. <i>Applied Energy</i> , 2013, 104, 592-602.	5.1	154
213	Fabrication of thin film composite poly(amide)-carbon-nanotube supported membranes for enhanced performance in osmotically driven desalination systems. <i>Journal of Membrane Science</i> , 2013, 427, 422-430.	4.1	81
214	Technical review and evaluation of the economics of water desalination: Current and future challenges for better water supply sustainability. <i>Desalination</i> , 2013, 309, 197-207.	4.0	1,098
215	3-Step approach towards evaluation and elimination of acid use in pre-treatment for a brackish water reverse osmosis process. <i>Journal of Environmental Management</i> , 2013, 124, 115-120.	3.8	5
216	Reflection of the structural distinctions of source-different humic substances on organic fouling behaviors of SWRO membranes. <i>Desalination</i> , 2013, 318, 72-78.	4.0	9
217	Effects of ordered mesoporous silica on the performances of composite nanofiltration membrane. <i>Desalination</i> , 2013, 327, 24-31.	4.0	23
218	CaSO ₄ solubility in water-ethanol mixtures in the presence of sodium chloride at 25°C. Application to a reverse osmosis process. <i>Fluid Phase Equilibria</i> , 2013, 360, 248-252.	1.4	9
219	Rapid field assessment of RO desalination of brackish agricultural drainage water. <i>Water Research</i> , 2013, 47, 2649-2660.	5.3	25
220	Thermodynamic modeling of brine and its use in membrane crystallizer. <i>Desalination</i> , 2013, 323, 83-92.	4.0	49
221	Wireless desalination using inductively powered porous carbon electrodes. <i>Separation and Purification Technology</i> , 2013, 120, 6-11.	3.9	6
222	Removal of bisphenol A and 17 β -ethinyl estradiol by combined coagulation and adsorption using carbon nanomaterials and powdered activated carbon. <i>Separation and Purification Technology</i> , 2013, 107, 37-47.	3.9	83

#	ARTICLE	IF	CITATIONS
223	A general method for the fabrication of hierarchically-nanostructured membranes with multifunctional environmental applications. <i>Separation and Purification Technology</i> , 2013, 107, 324-330.	3.9	6
224	Advances in Membrane Distillation for Water Desalination and Purification Applications. <i>Water (Switzerland)</i> , 2013, 5, 94-196.	1.2	601
226	High permeability and salt rejection reverse osmosis by a zeolite nano-membrane. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6817.	1.3	88
227	Fouling-resistant membranes for the treatment of flowback water from hydraulic shale fracturing: A pilot study. <i>Journal of Membrane Science</i> , 2013, 437, 265-275.	4.1	120
229	Effect of Cross-flow Velocity on the Critical Flux of Ceramic Membrane Filtration as a Pre-treatment for Seawater Desalination. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 341-347.	1.7	20
230	Large-scale water desalination methods: a review and new perspectives. <i>Desalination and Water Treatment</i> , 2013, 51, 2836-2849.	1.0	49
231	Costs for water supply, treatment, end-use and reclamation. <i>Desalination and Water Treatment</i> , 2013, 51, 200-232.	1.0	67
232	MINLP based superstructure optimization for boron removal during desalination by reverse osmosis. <i>Journal of Membrane Science</i> , 2013, 440, 29-39.	4.1	42
233	Potential of osmotic power generation by pressure retarded osmosis using seawater as feed solution: Analysis and experiments. <i>Journal of Membrane Science</i> , 2013, 429, 330-337.	4.1	152
234	Hierarchical 3D dendritic TiO ₂ nanospheres building with ultralong 1D nanoribbon/wires for high performance concurrent photocatalytic membrane water purification. <i>Water Research</i> , 2013, 47, 4126-4138.	5.3	51
235	Subsurface intakes for seawater reverse osmosis facilities: Capacity limitation, water quality improvement, and economics. <i>Desalination</i> , 2013, 322, 37-51.	4.0	102
236	Application of integrated ozone biological aerated filters and membrane filtration in water reuse of textile effluents. <i>Bioresource Technology</i> , 2013, 133, 150-157.	4.8	62
237	Solar desalination by membrane distillation: Dispersion in energy consumption analysis and water production costs (a review). <i>Desalination</i> , 2013, 308, 89-101.	4.0	249
238	High-flux reverse osmosis membranes incorporated with hydrophilic additives for brackish water desalination. <i>Desalination</i> , 2013, 308, 225-232.	4.0	92
239	Microbial desalination cells for energy production and desalination. <i>Desalination</i> , 2013, 308, 122-130.	4.0	246
240	Removal of boron from geothermal water by RO system—Effect of membrane configuration and applied pressure. <i>Desalination</i> , 2013, 310, 130-134.	4.0	23
241	An improved life cycle impact assessment (LCIA) approach for assessing aquatic eco-toxic impact of brine disposal from seawater desalination plants. <i>Desalination</i> , 2013, 308, 233-241.	4.0	68
242	Enhanced boron rejection by NF/RO membranes by complexation with polyols: Measurement and mechanisms. <i>Desalination</i> , 2013, 310, 115-121.	4.0	29

#	ARTICLE	IF	CITATIONS
243	Effect of pH on the ageing of reverse osmosis membranes upon exposure to hypochlorite. <i>Desalination</i> , 2013, 309, 97-105.	4.0	73
244	Water modeling in an energy optimization framework â€œ The water-scarce middle east context. <i>Applied Energy</i> , 2013, 101, 268-279.	5.1	102
245	Multi-objective design of reverse osmosis plants integrated with solar Rankine cycles and thermal energy storage. <i>Applied Energy</i> , 2013, 102, 1137-1147.	5.1	56
246	Marine bacterial biofilm formation and its responses to periodic hyperosmotic stress on a flat sheet membrane for seawater desalination pretreatment. <i>Journal of Membrane Science</i> , 2013, 425-426, 182-189.	4.1	18
247	Effect of polydopamine deposition conditions on fouling resistance, physical properties, and permeation properties of reverse osmosis membranes in oil/water separation. <i>Journal of Membrane Science</i> , 2013, 425-426, 208-216.	4.1	250
248	High-flux and fouling-resistant membranes for brackish water desalination. <i>Journal of Membrane Science</i> , 2013, 425-426, 1-10.	4.1	18
249	Sodium chloride diffusion in sulfonated polymers for membrane applications. <i>Journal of Membrane Science</i> , 2013, 427, 186-196.	4.1	101
250	Experimental Investigation of a Spiral-Wound Pressure-Retarded Osmosis Membrane Module for Osmotic Power Generation. <i>Environmental Science & Technology</i> , 2013, 47, 2966-2973.	4.6	83
252	Thermoresponsive Magnetic Nanoparticles for Seawater Desalination. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11453-11461.	4.0	143
253	The Role of Technology in Policy Dynamics: The Case of Desalination in Israel. <i>Environmental Policy and Governance</i> , 2013, 23, 91-103.	2.1	15
254	Use and Development of Fouling Index in Predicting Membrane Fouling. <i>Separation and Purification Reviews</i> , 2013, 42, 296-339.	2.8	28
255	NOM characterization by LC-OCD in a SWRO desalination line. <i>Desalination and Water Treatment</i> , 2013, 51, 1776-1780.	1.0	30
256	Overlimiting Current and Shock Electrodialysis in Porous Media. <i>Langmuir</i> , 2013, 29, 16167-16177.	1.6	126
257	Recent Progress in Advanced Nanobiological Materials for Energy and Environmental Applications. <i>Materials</i> , 2013, 6, 5821-5856.	1.3	15
258	Advanced Treatment of Wastewater from an Ethylene Chemical Enterprise by a Biological Aerated Filter-Ultrafiltration-Reverse Osmosis Process. <i>Advanced Materials Research</i> , 2013, 726-731, 1673-1678.	0.3	1
259	Biological Denitrification of Groundwater by a Composite Membrane Bioreactor. <i>Advanced Materials Research</i> , 0, 864-867, 2083-2089.	0.3	1
260	Complete sustainability in electrodialysis reversal desalination: reusing tertiary-treated municipal wastewater as feed in the concentrate stream and electrodes rinsing water. <i>Desalination and Water Treatment</i> , 2013, 51, 3215-3223.	1.0	3
261	Ceramic membrane filtration as seawater RO pre-treatment: influencing factors on the ceramic membrane flux and quality. <i>Desalination and Water Treatment</i> , 2013, 51, 2575-2583.	1.0	12

#	ARTICLE	IF	CITATIONS
262	Seawater ultrafiltration: role of particles on organic rejections and permeate fluxes. Environmental Technology (United Kingdom), 2013, 34, 2553-2561.	1.2	3
263	Preliminary experiments on UF pretreatment for SWRO. Desalination and Water Treatment, 2013, 51, 6259-6264.	1.0	0
264	Small Modular Infrastructure. Engineering Economist, 2013, 58, 231-264.	0.3	67
265	Economic feasibility study for MF system as a pretreatment of SWRO in test bed desalination plant. Desalination and Water Treatment, 2013, 51, 6248-6258.	1.0	1
266	Source Separation and Decentralization for Wastewater Management. , 2013, , .		111
267	The Economics of Bulk Water Transport in Southern California. Resources, 2014, 3, 703-720.	1.6	4
268	The study of reverse osmosis on glycerin solution filtration: Dead-end and crossflow filtrations, transport mechanism, rejection and permeability investigations. Desalination, 2014, 352, 66-81.	4.0	16
269	Pressure-driven membrane and ion exchange hybrid system for the treatment of wastewater containing sulfite and nitrite. Desalination and Water Treatment, 0, , 1-8.	1.0	2
270	Biopower Generation from Kitchen Wastewater Using a Bioreactor. Water Environment Research, 2014, 86, 3-12.	1.3	9
271	Advances in Nanostructured Membranes for Water Desalination. , 2014, , 109-122.		6
272	Valorization of Waste Obtained from Oil Extraction in Moringa Oleifera Seeds: Coagulation of Reactive Dyes in Textile Effluents. Materials, 2014, 7, 6569-6584.	1.3	31
273	A Dynamic Optimization Strategy for the Operation of Large Scale Seawater Reverses Osmosis System. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	2
274	Organic-Inorganic Hybrid Polymers as Adsorbents for Removal of Heavy Metal Ions from Solutions: A Review. Materials, 2014, 7, 673-726.	1.3	293
275	Energy, Backstop Endogeneity, and the Optimal Use of Groundwater. American Journal of Agricultural Economics, 2014, 96, 1363-1371.	2.4	2
276	A Computer Architecture for the Automatic Design of Modular Systems With Application to Photovoltaic Reverse Osmosis. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	1.7	9
277	Systemic design of a reverse osmosis desalination process powered by hybrid energy system. , 2014, , .		4
278	Numerical simulation of membrane desalination in a conjugated heat transfer configuration: Role of spacers. , 2014, , .		2
279	Development of iron release, turbidity, and dissolved silica integrated models for desalinated water in drinking water distribution systems. Desalination and Water Treatment, 0, , 1-10.	1.0	4

#	ARTICLE	IF	CITATIONS
280	Parameterization of a mesoscopic model for the self-assembly of linear sodium alkyl sulfates. <i>Journal of Chemical Physics</i> , 2014, 140, 204902.	1.2	22
281	Review of high recovery concentrate management options. <i>Desalination and Water Treatment</i> , 2014, 52, 7609-7627.	1.0	12
282	Today's and Future Challenges in Applications of Renewable Energy Technologies for Desalination. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 929-999.	6.6	49
283	Seawater desalination using forward osmosis process. <i>Journal of Water Reuse and Desalination</i> , 2014, 4, 34-40.	1.2	5
284	Improvement in semipermeable membrane performance of wholly aromatic polyamide through an additive processing strategy. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1275-1281.	2.5	11
285	Ultrafiltration as a pretreatment for seawater desalination: A review. <i>Membrane Water Treatment</i> , 2014, 5, 15-29.	0.5	44
286	Water Use: Recycling and Desalination for Agriculture. , 2014, , 407-424.		13
287	Recovery of acids from dilute streams : A review of process technologies. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1720-1731.	1.2	30
288	Evaluation of pretreatments for a blowdown stream to feed a filtration system with discarded reverse osmosis membranes. <i>Desalination</i> , 2014, 341, 126-134.	4.0	10
289	Effect of stretching ratio and heating temperature on structure and performance of PTFE hollow fiber membrane in VMD for RO brine. <i>Separation and Purification Technology</i> , 2014, 126, 82-94.	3.9	67
290	Macroinitiator-mediated photoreactive coating of membrane surfaces with antifouling hydrogel layers. <i>Journal of Membrane Science</i> , 2014, 455, 207-218.	4.1	54
291	Modified ultrafiltration membranes for humic acid removal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 275-282.	2.7	65
292	Fundamental water and salt transport properties of polymeric materials. <i>Progress in Polymer Science</i> , 2014, 39, 1-42.	11.8	597
293	Utilization of solar energy for direct contact membrane distillation process: An experimental study for desalination of real seawater. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 155-161.	1.2	18
294	Problems in seawater industrial desalination processes and potential sustainable solutions: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2014, 13, 203-214.	3.9	60
295	Fluorescence imaging for biofoulants detection and monitoring of biofouled strength in reverse osmosis membrane. <i>Analytical Methods</i> , 2014, 6, 993-1000.	1.3	4
296	Application and modification of poly(vinylidene fluoride) (PVDF) membranes – A review. <i>Journal of Membrane Science</i> , 2014, 463, 145-165.	4.1	1,305
297	Electrochemical corrosion characteristics of type 316L stainless steel in hot concentrated seawater. <i>Corrosion Science</i> , 2014, 81, 96-101.	3.0	66

#	ARTICLE	IF	CITATIONS
298	Concentration of NaCl from seawater reverse osmosis brines for the chlor-alkali industry by electro dialysis. <i>Desalination</i> , 2014, 342, 107-117.	4.0	120
299	Novel reverse osmosis membranes incorporated with a hydrophilic additive for seawater desalination. <i>Journal of Membrane Science</i> , 2014, 455, 44-54.	4.1	127
300	Free volume characterization of sulfonated styrenic pentablock copolymers using positron annihilation lifetime spectroscopy. <i>Journal of Membrane Science</i> , 2014, 453, 425-434.	4.1	45
301	Salinization and Saline Environments. , 2014, , 325-378.		49
302	Precipitation softening: a pretreatment process for seawater desalination. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2876-2887.	2.7	45
303	Optimization of preparation conditions of polyamide thin film composite membrane for organic solvent nanofiltration. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 327-337.	1.2	38
304	Key factors influencing water diffusion in aromatic PA membrane: Hydrates, nanochannels and functional groups. <i>Desalination</i> , 2014, 333, 52-58.	4.0	19
305	Critical appraisal of current nanofiltration modelling strategies for seawater desalination and further insights on dielectric exclusion. <i>Desalination</i> , 2014, 343, 154-161.	4.0	34
306	Dual-layer polybenzimidazole/polyethersulfone (PBI/PES) nanofiltration (NF) hollow fiber membranes for heavy metals removal from wastewater. <i>Journal of Membrane Science</i> , 2014, 456, 117-127.	4.1	222
307	Current and future applications for nanofiltration technology in the food processing. <i>Food and Bioproducts Processing</i> , 2014, 92, 161-177.	1.8	124
308	Where does solar-aided seawater desalination make sense? A method for identifying sustainable sites. <i>Desalination</i> , 2014, 339, 10-17.	4.0	64
309	Concentrating solar power (CSP) system integrated with MED+RO hybrid desalination. <i>Desalination</i> , 2014, 336, 121-128.	4.0	100
310	Treatment of model inland brackish groundwater reverse osmosis concentrate with electro dialysis+Part I: sensitivity to superficial velocity. <i>Desalination</i> , 2014, 344, 152-162.	4.0	54
311	A two-dimensional mechanistic model for scaling in spiral wound membrane systems. <i>Chemical Engineering Journal</i> , 2014, 241, 77-91.	6.6	46
312	High performance and antifouling vertically aligned carbon nanotube membrane for water purification. <i>Journal of Membrane Science</i> , 2014, 460, 171-177.	4.1	142
313	Silica removal to prevent silica scaling in reverse osmosis membranes. <i>Desalination</i> , 2014, 344, 137-143.	4.0	42
314	Nanofiltration hollow fiber membranes for textile wastewater treatment: Lab-scale and pilot-scale studies. <i>Chemical Engineering Science</i> , 2014, 114, 51-57.	1.9	160
315	A lanthanum chelate possessing an open-channel framework with water nanotubes: properties and desalination. <i>Dalton Transactions</i> , 2014, 43, 6026.	1.6	15

#	ARTICLE	IF	CITATIONS
316	Reverse osmosis for desalination of water from the Guarani Aquifer System to produce drinking water in southern Brazil. <i>Desalination</i> , 2014, 344, 402-411.	4.0	22
317	Increasing hydrophobicity of poly(propylene) fibers by coating reduced graphene oxide and their application as depth filter media. <i>Carbon</i> , 2014, 70, 179-189.	5.4	21
318	Analysis of reverse osmosis membrane performance during desalination of simulated brackish surface waters. <i>Journal of Membrane Science</i> , 2014, 453, 136-154.	4.1	38
319	Improving the performance of polyamide reverse osmosis membrane by incorporation of modified multi-walled carbon nanotubes. <i>Journal of Membrane Science</i> , 2014, 450, 249-256.	4.1	393
320	Experiments and modeling of a vacuum membrane distillation for high saline water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2174-2183.	2.9	47
321	Seawater predesalination with electrodialysis. <i>Desalination</i> , 2014, 342, 61-69.	4.0	162
322	Seawater electrodialysis with preferential removal of divalent ions. <i>Journal of Membrane Science</i> , 2014, 452, 219-228.	4.1	99
323	Biomimetic membranes: A review. <i>Journal of Membrane Science</i> , 2014, 454, 359-381.	4.1	314
324	Osmotic power with Pressure Retarded Osmosis: Theory, performance and trends – A review. <i>Journal of Membrane Science</i> , 2014, 453, 337-358.	4.1	274
325	Comparative study of brine management technologies for desalination plants. <i>Desalination</i> , 2014, 336, 32-49.	4.0	280
326	Treatment technologies for reverse osmosis concentrate volume minimization: A review. <i>Separation and Purification Technology</i> , 2014, 122, 472-489.	3.9	246
327	Recent progress of membrane distillation using electrospun nanofibrous membrane. <i>Journal of Membrane Science</i> , 2014, 453, 435-462.	4.1	318
328	Electrodialysis of concentrated brine from RO plant to produce coarse salt and freshwater. <i>Journal of Membrane Science</i> , 2014, 450, 323-330.	4.1	160
329	The effect of spiral wound membrane element design characteristics on its performance in steady state desalination – A parametric study. <i>Desalination</i> , 2014, 332, 76-90.	4.0	37
330	A review on the recovery methods of draw solutes in forward osmosis. <i>Journal of Water Process Engineering</i> , 2014, 4, 212-223.	2.6	145
331	Electrochemical mineral scale prevention and removal on electrically conducting carbon nanotube – polyamide reverse osmosis membranes. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1300-1308.	1.7	63
332	A Dendrimer-Based Forward Osmosis Draw Solute for Seawater Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16170-16175.	1.8	73
333	The improvement of antibiofouling properties of a reverse osmosis membrane by oxidized CNTs. <i>RSC Advances</i> , 2014, 4, 32802.	1.7	74

#	ARTICLE	IF	CITATIONS
334	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21673-21681.	1.3	160
335	Surface mineralization of commercial thin-film composite polyamide membrane by depositing barium sulfate for improved reverse osmosis performance and antifouling property. <i>Desalination</i> , 2014, 351, 228-235.	4.0	43
336	Insight into the pore tuning of triazine-based nitrogen-rich organoalkoxysilane membranes for use in water desalination. <i>RSC Advances</i> , 2014, 4, 23759-23769.	1.7	25
337	A study of the bubble column evaporator method for thermal desalination. <i>Desalination</i> , 2014, 351, 236-242.	4.0	23
338	Capital cost estimation of RO plants: GCC countries versus southern Europe. <i>Desalination</i> , 2014, 347, 103-111.	4.0	48
339	Advances in Polymer-based Nanostructured Membranes for Water Treatment. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1290-1316.	1.9	22
340	Characterization and biotoxicity assessment of dissolved organic matter in RO concentrate from a municipal wastewater reclamation reverse osmosis system. <i>Chemosphere</i> , 2014, 117, 545-551.	4.2	44
341	Control logic and strategy for emergency condition of piston type energy recovery device. <i>Desalination</i> , 2014, 348, 1-7.	4.0	11
342	Comparison of salt adsorption capacity and energy consumption between constant current and constant voltage operation in capacitive deionization. <i>Desalination</i> , 2014, 352, 52-57.	4.0	116
343	Structural Characterization of Thin-Film Polyamide Reverse Osmosis Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1442-1451.	1.8	83
344	Effects of chemical preservation on flux and solute rejection by reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2014, 472, 202-209.	4.1	21
345	Thermoresponsive copolymer-based draw solution for seawater desalination in a combined process of forward osmosis and membrane distillation. <i>Desalination</i> , 2014, 348, 26-32.	4.0	153
346	Fouling of reverse osmosis membrane for municipal wastewater reclamation: Autopsy results from a full-scale plant. <i>Desalination</i> , 2014, 349, 73-79.	4.0	73
347	Fouling of nanofiltration membranes in full- and bench-scale systems treating groundwater containing silica. <i>Journal of Membrane Science</i> , 2014, 468, 349-359.	4.1	34
348	Modeling water flux and salt rejection of mesoporous γ -alumina and microporous organosilica membranes. <i>Journal of Membrane Science</i> , 2014, 470, 307-315.	4.1	14
349	Natural zeolite clinoptilolite-phosphate composite Membranes for water desalination by pervaporation. <i>Journal of Membrane Science</i> , 2014, 470, 431-438.	4.1	52
350	Improvement of reverse osmosis performance of polyamide thin-film composite membranes using TiO_2 nanoparticles. <i>Desalination and Water Treatment</i> , 0, , 1-12.	1.0	7
351	Desalination energy minimization using thin film nanocomposite membranes. <i>Desalination</i> , 2014, 350, 35-43.	4.0	27

#	ARTICLE	IF	CITATIONS
352	Effects of pH and temperature on forward osmosis membrane flux using rainwater as the makeup for cooling water dilution. <i>Desalination</i> , 2014, 351, 70-76.	4.0	39
353	Molecular Dynamics Simulations of Polyamide Membrane, Calcium Alginate Gel, and Their Interactions in Aqueous Solution. <i>Langmuir</i> , 2014, 30, 9098-9106.	1.6	82
354	Thermodynamic analysis of a stand-alone reverse osmosis desalination system powered by pressure retarded osmosis. <i>Desalination</i> , 2014, 352, 27-37.	4.0	23
355	Induced organic fouling with antiscalants in seawater desalination. <i>Desalination</i> , 2014, 352, 158-165.	4.0	34
356	Effect of Chemical Oxidation on the Sorption Tendency of Dissolved Organic Matter to a Model Hydrophobic Surface. <i>Environmental Science & Technology</i> , 2014, 48, 5118-5126.	4.6	35
357	Room-temperature development of thin film composite reverse osmosis membranes from cellulose acetate with antibacterial properties. <i>Journal of Membrane Science</i> , 2014, 453, 212-220.	4.1	66
358	Membrane scaling and flux decline during fertiliser-drawn forward osmosis desalination of brackish groundwater. <i>Water Research</i> , 2014, 57, 172-182.	5.3	101
359	Fabrication and characterization of a surface-patterned thin film composite membrane. <i>Journal of Membrane Science</i> , 2014, 452, 11-19.	4.1	90
361	All-Nanoparticle Layer-by-Layer Surface Modification of Micro- and Ultrafiltration Membranes. <i>Langmuir</i> , 2014, 30, 5545-5556.	1.6	25
362	Tunable water desalination across graphene oxide framework membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8646.	1.3	194
363	Estimating Water, Energy, and Carbon Footprints of Residential Swimming Pools. , 2014, , 343-359.		9
364	Bacterial adhesion onto nanofiltration and reverse osmosis membranes: Effect of permeate flux. <i>Water Research</i> , 2014, 63, 296-305.	5.3	23
365	The near-future integration of microbial desalination cells with reverse osmosis technology. <i>Energy and Environmental Science</i> , 2014, 7, 3921-3933.	15.6	116
366	Application of vacuum membrane distillation for small scale drinking water production. <i>Desalination</i> , 2014, 354, 53-61.	4.0	32
367	Biofilm evolution in the pretreatment line of a reverse osmosis system. <i>Desalination</i> , 2014, 338, 33-38.	4.0	12
368	Studying the impact of RO membrane surface functional groups on alginate fouling in seawater desalination. <i>Journal of Membrane Science</i> , 2014, 458, 120-127.	4.1	67
369	Discussion on calculation of maximum water recovery in nanofiltration system. <i>Desalination</i> , 2014, 332, 142-146.	4.0	11
370	Modeling and design of anaerobic fluidized bed reactor with recycling for denitrification of reverse osmosis concentrates. <i>Chemical Engineering Science</i> , 2014, 108, 111-122.	1.9	26

#	ARTICLE	IF	CITATIONS
371	Gas transport properties of interfacially polymerized polyamide composite membranes under different pre-treatments and temperatures. <i>Journal of Membrane Science</i> , 2014, 449, 109-118.	4.1	95
372	Flow cytometric assessment of microbial abundance in the near-field area of seawater reverse osmosis concentrate discharge. <i>Desalination</i> , 2014, 343, 208-216.	4.0	27
373	Desalination feasibility study of an industrial NaCl stream by bipolar membrane electrodialysis. <i>Journal of Environmental Management</i> , 2014, 140, 69-75.	3.8	78
374	Thin-film composite bicontinuous cubic lyotropic liquid crystal polymer membranes: Effects of anion-exchange on water filtration performance. <i>Journal of Membrane Science</i> , 2014, 455, 143-151.	4.1	30
375	Integrating membrane technologies and blending options in water production and distribution systems to improve organoleptic properties. The case of the Barcelona Metropolitan Area. <i>Journal of Cleaner Production</i> , 2014, 69, 250-259.	4.6	19
376	Experimental data and thermodynamic modeling of ternary aqueous biphasic systems of EO/PO polymers+Na ₂ SO ₄ +H ₂ O. <i>Fluid Phase Equilibria</i> , 2014, 366, 45-56.	1.4	7
377	High-Performance Reverse Osmosis CNT/Polyamide Nanocomposite Membrane by Controlled Interfacial Interactions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2819-2829.	4.0	261
378	Optimal seawater reverse osmosis network design considering product water boron specifications. <i>Desalination</i> , 2014, 345, 112-127.	4.0	25
379	Biofouling in reverse osmosis processes: The roles of flux, crossflow velocity and concentration polarization in biofilm development. <i>Journal of Membrane Science</i> , 2014, 467, 116-125.	4.1	45
380	Liquid-liquid phase equilibria for ternary systems of several polyethers with NaCl and H ₂ O. <i>Fluid Phase Equilibria</i> , 2014, 376, 76-84.	1.4	7
381	Renewable energy powered membrane technology: Brackish water desalination system operated using real wind fluctuations and energy buffering. <i>Journal of Membrane Science</i> , 2014, 468, 224-232.	4.1	44
382	Climate Change Resilience and Public Education in Response to Hydrologic Extremes in Singapore. <i>British Journal of Environment and Climate Change</i> , 2014, 4, 328-354.	0.3	16
384	Efficient Desalination by Reverse Osmosis: A guide to RO practice. <i>Water Intelligence Online</i> , 2015, 14, .	0.3	1
385	Fertiliser-Drawn Forward Osmosis Desalination for Fertigation. , 2015, , 395-426.		1
386	The calculation scheme for estimation of the water permeability through polymers and copolymers. <i>Polymer Science - Series A</i> , 2015, 57, 924-945.	0.4	4
387	High-performance multi-functional reverse osmosis membranes obtained by carbon nanotube-polyamide nanocomposite. <i>Scientific Reports</i> , 2015, 5, 13562.	1.6	101
388	A new nanocomposite forward osmosis membrane custom-designed for treating shale gas wastewater. <i>Scientific Reports</i> , 2015, 5, 14530.	1.6	47
389	Mild desalination of various raw water streams. <i>Water Science and Technology</i> , 2015, 72, 371-376.	1.2	20

#	ARTICLE	IF	CITATIONS
390	Potential of Carboxybetaine Polymer-Coated Siliceous Membranes in Desalination Processes: A Molecular Dynamics Simulation Study. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 805-808.	0.3	1
391	Controlling biofouling of reverse osmosis membranes through surface modification via grafting patterned polymer brushes. <i>Journal of Water Reuse and Desalination</i> , 2015, 5, 326-334.	1.2	18
392	Low Energy Direct Contact Membrane Desalination: Conjugated Heat and High Fidelity Flow Simulation. <i>Energy Procedia</i> , 2015, 75, 1722-1727.	1.8	7
393	Probabilistic cost estimation methods for treatment of water extracted during CO2 storage and EOR. <i>International Journal of Greenhouse Gas Control</i> , 2015, 41, 316-327.	2.3	8
394	Fabrication of cellulose acetate ultrafiltration membrane with diphenyl ketone via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	9
395	Case Study and Life Cycle Assessment of a Coastal Utility Facing Saltwater Intrusion. <i>Journal - American Water Works Association</i> , 2015, 107, E543.	0.2	9
396	Reverse Osmosis Membrane. , 2015, , 35-52.		6
397	The Energy-Water Nexus: An Analysis and Comparison of Various Configurations Integrating Desalination with Renewable Power. <i>Resources</i> , 2015, 4, 227-276.	1.6	31
398	Characterization and Evaluation of the Improved Performance of Modified Reverse Osmosis Membranes by Incorporation of Various Organic Modifiers and SnO2 Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-11.	1.5	13
399	Ultrapure water from seawater using integrated reverse osmosis-capacitive deionization system. <i>Desalination and Water Treatment</i> , 2015, 53, 3482-3490.	1.0	21
400	Online monitor for the reverse osmosis spiral wound module “Development of the canary cell. <i>Desalination</i> , 2015, 368, 48-59.	4.0	21
401	Study on different ultrafiltration-based hybrid pretreatment systems for reverse osmosis desalination. <i>Desalination</i> , 2015, 371, 18-25.	4.0	22
402	Downstream processing of reverse osmosis brine: Characterisation of potential scaling compounds. <i>Water Research</i> , 2015, 80, 227-234.	5.3	17
403	Foulant characterization and distribution in spiral wound reverse osmosis membranes from different pressure vessels. <i>Desalination</i> , 2015, 370, 44-52.	4.0	42
404	Highly Water-Stable Zirconium Metal-Organic Framework UiO-66 Membranes Supported on Alumina Hollow Fibers for Desalination. <i>Journal of the American Chemical Society</i> , 2015, 137, 6999-7002.	6.6	591
405	Water Treatment Chemicals. , 2015, , 169-191.		1
406	Cost comparison of seawater for toilet flushing and wastewater recycling. <i>Water Policy</i> , 2015, 17, 83-97.	0.7	13
407	A strategy of membrane cleaning and replacement schedule for spiral-wound SWRO system. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
408	Impregnated Membranes for Water Purification Using Forward Osmosis. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12354-12366.	1.8	27
409	Introduction: Role of Membrane Science and Technology and Forward Osmosis Processes. , 2015, , 1-14.		0
410	Reducing the specific energy consumption of 1st-pass SWRO by application of high-flux membranes fed with high-pH, decarbonated seawater. <i>Water Research</i> , 2015, 85, 185-192.	5.3	17
411	Estimates of Arab world research productivity associated with desalination: a bibliometric analysis. <i>IDA Journal of Desalination and Water Reuse</i> , 2015, 7, 3-16.	0.4	15
412	Desalination of saline water by nanochannel arrays through manipulation of electrical double layer. <i>Nano Energy</i> , 2015, 12, 394-400.	8.2	25
413	High recovery rate NFÓFOÓRO hybrid system for inland brackish water treatment. <i>Desalination</i> , 2015, 363, 19-25.	4.0	64
414	Optimal operations for large-scale seawater reverse osmosis networks. <i>Journal of Membrane Science</i> , 2015, 476, 508-524.	4.1	26
415	Retention of samarium ions from aqueous solutions by poly(acrylic acid)-enhanced ultrafiltration. <i>Desalination and Water Treatment</i> , 2015, 56, 2715-2722.	1.0	4
416	Sustainable Water Use and Management. <i>Green Energy and Technology</i> , 2015, , .	0.4	6
417	Study of polyamide composite reverse osmosis membrane degradation in water under gamma rays. <i>Journal of Membrane Science</i> , 2015, 480, 64-73.	4.1	29
418	Hydroxyl Functionalized Polytriazole- <i>co</i> -polyoxadiazole as Substrates for Forward Osmosis Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3960-3973.	4.0	88
419	Improvement of overall water recovery by increasing RNF with recirculation in a NFÓRO integrated membrane process for seawater desalination. <i>Desalination</i> , 2015, 361, 95-104.	4.0	24
420	Design, Energy and Cost Analyses of Membrane Processes. , 2015, , 339-368.		2
421	Bilayer Mass Transport Model for Determining Swelling and Diffusion in Coated, Ultrathin Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3492-3502.	4.0	15
422	Pilot-scale study on the reverse osmosis treatment of oil sands tailings pond water: Impact of pretreatment on process performance. <i>Desalination</i> , 2015, 360, 52-60.	4.0	8
423	Improving the fouling resistance of brackish water membranes via surface modification with graphene oxide functionalized chitosan. <i>Desalination</i> , 2015, 365, 99-107.	4.0	140
424	Mechanical and microstructural characterization of sulfonated pentablock copolymer membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 39-47.	2.4	13
425	Properties Governing the Transport of Trace Organic Contaminants through Ion-Exchange Membranes. <i>Environmental Science & Technology</i> , 2015, 49, 489-497.	4.6	44

#	ARTICLE	IF	CITATIONS
426	Transparent Exopolymer Particles: From Aquatic Environments and Engineered Systems to Membrane Biofouling. <i>Environmental Science & Technology</i> , 2015, 49, 691-707.	4.6	147
427	Hybrid Membrane Systems – Applications and Case Studies. , 2015, , 179-281.		7
428	Water and Membrane Treatment. , 2015, , 81-178.		20
429	Water desalination by neutralization dialysis with ion-exchange membranes: Flow rate and acid/alkali concentration effects. <i>Desalination</i> , 2015, 361, 13-24.	4.0	32
430	Treatment of basal water using a hybrid electrodialysis reversal – reverse osmosis system combined with a low-temperature crystallizer for near-zero liquid discharge. <i>Desalination</i> , 2015, 363, 92-98.	4.0	60
431	Diffusiophoresis contributes significantly to colloidal fouling in low salinity reverse osmosis systems. <i>Journal of Membrane Science</i> , 2015, 479, 67-76.	4.1	33
432	Zeolite membranes for ion separations from aqueous solutions. <i>Current Opinion in Chemical Engineering</i> , 2015, 8, 15-20.	3.8	28
433	Energy consumption in desalinating produced water from shale oil and gas extraction. <i>Desalination</i> , 2015, 366, 94-112.	4.0	190
434	Treatment of high salinity brines by direct contact membrane distillation: Effect of membrane characteristics and salinity. <i>Chemosphere</i> , 2015, 140, 143-149.	4.2	67
435	High-performance reverse osmosis nanocomposite membranes containing the mixture of carbon nanotubes and graphene oxides. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6798-6809.	5.2	123
436	High performance graphene oxide/polyacrylonitrile composite pervaporation membranes for desalination applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5140-5147.	5.2	228
437	Chemical-free ion exchange and its application for desalination. <i>Desalination</i> , 2015, 365, 144-150.	4.0	33
438	Salt and water transport in reverse osmosis thin film composite seawater desalination membranes. <i>Desalination</i> , 2015, 368, 202-213.	4.0	48
439	Side effects of antiscalants on biofouling of reverse osmosis membranes in brackish water desalination. <i>Journal of Membrane Science</i> , 2015, 481, 172-187.	4.1	72
440	Emerging desalination technologies for water treatment: A critical review. <i>Water Research</i> , 2015, 75, 164-187.	5.3	681
441	Membrane technologies for municipal wastewater treatment. , 2015, , 443-463.		14
442	Mathematical modeling of membrane operations for water treatment. , 2015, , 379-407.		9
443	Water treatment by reverse and forward osmosis. , 2015, , 129-154.		6

#	ARTICLE	IF	CITATIONS
444	Water and salt transport properties of zwitterionic polymers film. <i>Journal of Membrane Science</i> , 2015, 491, 73-81.	4.1	53
445	Evaluation of hydroacid complex in the forward osmosis membrane distillation (FO-MD) system for desalination. <i>Journal of Membrane Science</i> , 2015, 494, 1-7.	4.1	43
446	Pulsed marker method for real-time detection of reverse osmosis membrane integrity loss. <i>Desalination</i> , 2015, 370, 25-32.	4.0	16
447	Reverse osmosis performance of layered-hybrid membranes consisting of an organosilica separation layer on polymer supports. <i>Journal of Membrane Science</i> , 2015, 494, 104-112.	4.1	19
448	Fine-Tuning the Surface of Forward Osmosis Membranes via Grafting Graphene Oxide: Performance Patterns and Biofouling Propensity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18004-18016.	4.0	101
449	Techno-economic assessment of a pilot-scale plant for solar desalination based on existing plate and frame MD technology. <i>Desalination</i> , 2015, 374, 70-80.	4.0	44
450	Increasing RO efficiency by chemical-free ion-exchange and Donnan dialysis: Principles and practical implications. <i>Water Research</i> , 2015, 80, 59-70.	5.3	39
451	Identification and optimization of key parameters in preparation of thin film composite membrane for water desalination using multi-step statistical method. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 61-73.	2.9	32
452	Drivers of an urban community's acceptance of a large desalination scheme for drinking water. <i>Journal of Hydrology</i> , 2015, 528, 38-44.	2.3	17
453	Influence of nanoimprint lithography on membrane structure and performance. <i>Polymer</i> , 2015, 69, 129-137.	1.8	39
454	Disinfection by-product formation during seawater desalination: A review. <i>Water Research</i> , 2015, 81, 343-355.	5.3	164
455	Simple boron removal from seawater by using polyols as complexing agents: A computational mechanistic study. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 2330-2334.	1.2	4
456	A conceptual demonstration and theoretical design of a novel "super-gravity" vacuum flash process for seawater desalination. <i>Desalination</i> , 2015, 371, 67-77.	4.0	11
457	Spray Layer-by-Layer Assembled Clay Composite Thin Films as Selective Layers in Reverse Osmosis Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13375-13383.	4.0	28
458	Facile fabrication of porous carbon nanofibers by electrospun PAN/dimethyl sulfone for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13827-13834.	5.2	79
459	Staged reverse osmosis operation: Configurations, energy efficiency, and application potential. <i>Desalination</i> , 2015, 366, 9-14.	4.0	121
460	Techno-economic analysis of MED and RO desalination powered by low-enthalpy geothermal energy. <i>Desalination</i> , 2015, 365, 277-292.	4.0	100
461	Desalination by forward osmosis: Identifying performance limiting parameters through module-scale modeling. <i>Journal of Membrane Science</i> , 2015, 491, 159-167.	4.1	111

#	ARTICLE	IF	CITATIONS
462	Inline coagulation-ultrafiltration as the pretreatment for reverse osmosis brine treatment and recovery. <i>Desalination</i> , 2015, 365, 242-249.	4.0	46
463	Pre-treatment with nanofiltration (NF) in seawater desalination-Preliminary integrated membrane tests in Urla, Turkey. <i>Desalination</i> , 2015, 369, 10-17.	4.0	80
464	Membrane desalination under constant water recovery - The effect of module design parameters on system performance. <i>Separation and Purification Technology</i> , 2015, 147, 90-113.	3.9	27
465	Use of discharged brine from reverse osmosis plant in heap leaching: Opportunity for caliche mining industry. <i>Hydrometallurgy</i> , 2015, 155, 61-68.	1.8	10
466	Performance of a vibratory shear membrane filtration system during the treatment of magnetic ion exchange process concentrate. <i>Desalination</i> , 2015, 365, 196-203.	4.0	4
467	Phosphate adsorption on granular ferric hydroxide to increase product water recovery in reverse osmosis-desalination of secondary effluents. <i>Desalination</i> , 2015, 364, 53-61.	4.0	29
468	Closed circuit desalination series no-9: theoretical model assessment of the flexible BWRO-CCD technology for high recovery, low energy and reduced fouling applications. <i>Desalination and Water Treatment</i> , 2015, 53, 1755-1779.	1.0	6
469	Mesoporous TiO ₂ based membranes for water desalination and brine processing. <i>Separation and Purification Technology</i> , 2015, 147, 166-171.	3.9	38
470	Early non-destructive biofouling detection in spiral wound RO membranes using a mobile earth's field NMR. <i>Journal of Membrane Science</i> , 2015, 489, 227-236.	4.1	44
471	Engineering noble metal nanomaterials for environmental applications. <i>Nanoscale</i> , 2015, 7, 7502-7519.	2.8	116
472	The performance of a biological aerated filter loaded with a novel non-sintered fly-ash ceramsite as pretreatment for dual membrane processes. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2024-2034.	1.2	13
473	Electrosorption for organic pollutants removal and desalination by graphite and activated carbon fiber composite electrodes. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3735-3744.	1.8	13
474	Development of a Treatment Process for Electrodialysis Reversal Concentrate with Intermediate Softening and Secondary Reverse Osmosis to Approach 98-Percent Water Recovery. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	0.7	8
475	Water desalination via capacitive deionization: what is it and what can we expect from it?. <i>Energy and Environmental Science</i> , 2015, 8, 2296-2319.	15.6	1,273
476	Hydrophilic, Bactericidal Nanoheater-Enabled Reverse Osmosis Membranes to Improve Fouling Resistance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11117-11126.	4.0	67
477	Challenges of Sustainable and Commercial Aquaponics. <i>Sustainability</i> , 2015, 7, 4199-4224.	1.6	304
478	Desalination of Red Sea water using both electrodialysis and reverse osmosis as complementary methods. <i>Egyptian Journal of Petroleum</i> , 2015, 24, 71-75.	1.2	27
479	Membrane technology for water production in agriculture: Desalination and wastewater reuse. <i>Desalination</i> , 2015, 364, 17-32.	4.0	199

#	ARTICLE	IF	CITATIONS
480	Pressure retarded osmosis (PRO) for integrating seawater desalination and wastewater reclamation: Energy consumption and fouling. <i>Journal of Membrane Science</i> , 2015, 483, 34-41.	4.1	126
481	A new 3D cobalt (II) metal-organic framework nanostructure for heavy metal adsorption. <i>Inorganica Chimica Acta</i> , 2015, 430, 261-267.	1.2	70
482	A review on the coupling of cooling, desalination and solar photovoltaic systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 703-717.	8.2	64
483	Graphene oxide-assisted membranes: Fabrication and potential applications in desalination and water purification. <i>Journal of Membrane Science</i> , 2015, 484, 95-106.	4.1	508
484	Feasibility of extracting valuable minerals from desalination concentrate: a comprehensive literature review. <i>Journal of Cleaner Production</i> , 2015, 100, 4-16.	4.6	97
485	Adsorption of phosphate from aqueous solutions and sewage using zirconium loaded okara (ZLO): Fixed-bed column study. <i>Science of the Total Environment</i> , 2015, 523, 40-49.	3.9	114
486	Area determination of solar desalination system for irrigating crops in greenhouses using different quality feed water. <i>Agricultural Water Management</i> , 2015, 154, 1-10.	2.4	15
487	Improving fouling resistance and chlorine stability of aromatic polyamide thin-film composite RO membrane by surface grafting of polyvinyl alcohol (PVA). <i>Desalination</i> , 2015, 367, 11-20.	4.0	153
488	Graphene oxide-embedded thin-film composite reverse osmosis membrane with high flux, anti-biofouling, and chlorine resistance. <i>Journal of Membrane Science</i> , 2015, 483, 128-135.	4.1	449
489	Desalination by Membrane Distillation using Electrospun Polyamide Fiber Membranes with Surface Fluorination by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8225-8232.	4.0	130
490	Biofouling and scaling control of reverse osmosis membrane using one-step cleaning-potential of acidified nitrite solution as an agent. <i>Journal of Membrane Science</i> , 2015, 495, 276-283.	4.1	62
491	Electrospun Superhydrophobic Organic/Inorganic Composite Nanofibrous Membranes for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21919-21930.	4.0	186
492	Multiscale Simulation Method for Flow and Mass-Transfer Characteristics in a Reverse Osmosis Membrane Module. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11413-11419.	1.8	2
493	Molecular Dynamics Study of Carbon Nanotubes/Polyamide Reverse Osmosis Membranes: Polymerization, Structure, and Hydration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24566-24575.	4.0	58
494	A Novel Approach to Low Temperature Thermal Reverse Osmosis Desalination. <i>Procedia Technology</i> , 2015, 20, 144-148.	1.1	3
495	Renewable energy powered membrane technology: Impact of solar irradiance fluctuations on performance of a brackish water reverse osmosis system. <i>Separation and Purification Technology</i> , 2015, 156, 379-390.	3.9	45
496	Self-assembled asymmetric membrane containing micron-size germanium for high capacity lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 92878-92884.	1.7	15
497	Microfluidic desalination techniques and their potential applications. <i>Lab on A Chip</i> , 2015, 15, 3428-3438.	3.1	32

#	ARTICLE	IF	CITATIONS
498	Improving the hydrophilicity and fouling resistance of RO membranes by surface immobilization of PVP based on a metal-polyphenol precursor layer. <i>Journal of Membrane Science</i> , 2015, 496, 58-69.	4.1	108
499	Amphistegina media filtration as pretreatment of SWRO desalination unit for producing different salinities to study the corrosion behavior of various materials. <i>Desalination and Water Treatment</i> , 0, , 1-18.	1.0	4
500	Enhanced surface hydrophilicity of thin-film composite membranes for nanofiltration: an experimental and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24201-24209.	1.3	13
501	Comparative economic and environmental assessments of centralised and decentralised seawater desalination options. <i>Desalination</i> , 2015, 376, 25-34.	4.0	46
502	Biomass, lipid productivities and fatty acids composition of marine <i>Nannochloropsis gaditana</i> cultured in desalination concentrate. <i>Bioresource Technology</i> , 2015, 197, 48-55.	4.8	48
503	Immobilization of 4-amino-2-hydroxyacetophenone onto silica gel surface and sorption studies of Cu(II), Ni(II), and Co(II) ions. <i>Desalination and Water Treatment</i> , 2015, 53, 2106-2116.	1.0	19
504	Development of lower cost seawater desalination processes using nanofiltration technologies – A review. <i>Desalination</i> , 2015, 376, 109-116.	4.0	216
505	Recent Progress in Desalination, Environmental and Marine Outfall Systems. , 2015, , .		7
506	Closed circuit desalination series no-12: the use of 4, 5 and 6 element modules with the BWRO-CCD technology for high recovery, low energy and reduced fouling applications. <i>Desalination and Water Treatment</i> , 2015, 53, 1780-1804.	1.0	5
507	Utilization of coconut shell carbon in the anode compartment of microbial desalination cell (MDC) for enhanced desalination and bio-electricity production. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2768-2776.	3.3	24
508	Carbon dioxide-brine-rock interactions in a carbonate reservoir capped by shale: Experimental insights regarding the evolution of trace metals. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 22-42.	1.6	32
509	Hybrid gas turbine-organic Rankine cycle for seawater desalination by reverse osmosis in a hydrocarbon production facility. <i>Energy Conversion and Management</i> , 2015, 106, 1134-1148.	4.4	40
510	Thin Film Interfacial Cross-Linking Approach To Fabricate a Chitosan Rejecting Layer over Poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 472-479.	1.8	48
511	A review of recent advance in fouling mitigation of NF/RO membranes in water treatment: pretreatment, membrane modification, and chemical cleaning. <i>Desalination and Water Treatment</i> , 2015, 55, 870-891.	1.0	78
512	Hydrogel-coated feed spacers in two-phase flow cleaning in spiral wound membrane elements: A novel platform for eco-friendly biofouling mitigation. <i>Water Research</i> , 2015, 71, 171-186.	5.3	35
513	Environmental and economic assessment of beach well intake versus open intake for seawater reverse osmosis desalination. <i>Desalination</i> , 2015, 357, 259-266.	4.0	52
514	Is Desalination Affordable? Regional Cost and Price Analysis. <i>Water Resources Management</i> , 2015, 29, 1385-1397.	1.9	95
515	Hydrogel surface modification of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 476, 264-276.	4.1	63

#	ARTICLE	IF	CITATIONS
516	Increased RO concentrate toxicity following application of antiscalants – Acute toxicity tests with the amphipods <i>Gammarus pulex</i> and <i>Gammarus roeseli</i> . <i>Environmental Pollution</i> , 2015, 197, 309-312.	3.7	19
517	Review: is interplay between nanomaterial and membrane technology the way forward for desalination?. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 971-980.	1.6	57
518	Towards zero liquid discharge in the presence of silica: Stable 98% recovery in nanofiltration and reverse osmosis. <i>Separation and Purification Technology</i> , 2015, 140, 23-31.	3.9	26
519	A novel thin film nanocomposite reverse osmosis membrane with superior anti-organic fouling affinity for water desalination. <i>Desalination</i> , 2015, 368, 106-113.	4.0	153
520	Energy and environmental issues in desalination. <i>Desalination</i> , 2015, 366, 2-8.	4.0	248
521	Water purification by shock electro dialysis: Deionization, filtration, separation, and disinfection. <i>Desalination</i> , 2015, 357, 77-83.	4.0	101
522	Forward osmosis: Where are we now?. <i>Desalination</i> , 2015, 356, 271-284.	4.0	681
523	Pilot study for the treatment of sodium and fluoride-contaminated groundwater by using high-pressure membrane systems. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 155-163.	3.3	11
524	Comparison of pre-treatment technologies towards improving reverse osmosis desalination of cooling tower blow down. <i>Desalination</i> , 2015, 357, 140-149.	4.0	37
525	Low fouling and improved chlorine resistant thin film composite reverse osmosis membranes by cerium(IV)/polyvinyl alcohol mediated surface modification. <i>Desalination</i> , 2015, 357, 93-103.	4.0	49
526	Comparative SWOT Analysis for Water Solutions in Asia and Africa. <i>Water Resources Management</i> , 2015, 29, 125-138.	1.9	28
527	Fabrication of Porous Matrix Membrane (PMM) Using Metal-Organic Framework as Green Template for Water Treatment. <i>Scientific Reports</i> , 2014, 4, 3740.	1.6	70
528	Technology for freeze concentration in the desalination industry. <i>Desalination</i> , 2015, 356, 314-327.	4.0	136
529	Optimization of biomass production of <i>Chlorella vulgaris</i> grown in desalination concentrate. <i>Journal of Applied Phycology</i> , 2015, 27, 1473-1483.	1.5	33
530	Membrane distillation: Recent developments and perspectives. <i>Desalination</i> , 2015, 356, 56-84.	4.0	833
531	Operational cost optimization of a full-scale SWRO system under multi-parameter variable conditions. <i>Desalination</i> , 2015, 355, 124-140.	4.0	33
532	Preliminary experimental analysis of a small-scale prototype SWRO desalination plant, designed for continuous adjustment of its energy consumption to the widely varying power generated by a stand-alone wind turbine. <i>Applied Energy</i> , 2015, 137, 222-239.	5.1	67
533	Modeling of spiral wound membrane desalination modules and plants – review and research priorities. <i>Desalination</i> , 2015, 356, 165-186.	4.0	65

#	ARTICLE	IF	CITATIONS
534	Effect of silica on the properties of cellulose acetate/polyethylene glycol membranes for reverse osmosis. <i>Desalination</i> , 2015, 355, 1-10.	4.0	102
535	Effect of initial salt concentrations on cell performance and distribution of internal resistance in microbial desalination cells. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 852-860.	1.2	21
536	Key role of hydrates in determining ion rejection by polyamide membrane. <i>Polymer Engineering and Science</i> , 2015, 55, 466-473.	1.5	6
537	Chemical and biological treatment of waste water with a novel silver/ordered mesoporous alumina nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 167-174.	1.2	5
538	A review of solar energy driven desalination technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1080-1118.	8.2	479
539	A Geospatial Feasibility Assessment of Utilizing Produced Water from Oil and Natural Gas Production in California for Beneficial Use. , 2016, , .		0
540	Development of PVDF Membrane Nanocomposites via Various Functionalization Approaches for Environmental Applications. <i>Polymers</i> , 2016, 8, 32.	2.0	21
542	Thin Film Nanofibrous Composite Membrane for Dead-End Seawater Desalination. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-12.	1.5	14
543	Salinity gradient power and desalination. , 2016, , 281-313.		8
544	Highly and Stably Water Permeable Thin Film Nanocomposite Membranes Doped with MIL-101 (Cr) Nanoparticles for Reverse Osmosis Application. <i>Materials</i> , 2016, 9, 870.	1.3	90
545	Evaluating the Feasibility of Using Produced Water from Oil and Natural Gas Production to Address Water Scarcity in California's Central Valley. <i>Sustainability</i> , 2016, 8, 1318.	1.6	26
546	Predicting the Specific Energy Consumption of Reverse Osmosis Desalination. <i>Water (Switzerland)</i> , 2016, 8, 601.	1.2	56
547	Long-term performance decline in a brackish water reverse osmosis desalination plant. Predictive model for the water permeability coefficient. <i>Desalination</i> , 2016, 397, 101-107.	4.0	42
548	Influence of natural water composition on reactivity of quicklime derived from Ca-rich and Mg-rich limestone: implications for sustainability of lime manufacturing through geochemical modeling. <i>RSC Advances</i> , 2016, 6, 65799-65807.	1.7	4
549	Second modification of a polyamide membrane surface. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
550	Exploring rainwater harvesting opportunities in Malta. <i>Management of Environmental Quality</i> , 2016, 27, 390-406.	2.2	1
551	Evaluation of forward osmosis membrane performance by using wastewater treatment plant effluents as feed solution. <i>Desalination and Water Treatment</i> , 2016, 57, 26657-26669.	1.0	11
552	Seawater desalination by combined nanofiltration and ionic exchange. <i>Desalination and Water Treatment</i> , 2016, 57, 28122-28132.	1.0	6

#	ARTICLE	IF	CITATIONS
553	Dynamic operation of flat sheet desalination-membrane elements: A comprehensive model accounting for organic fouling. <i>Computers and Chemical Engineering</i> , 2016, 93, 1-12.	2.0	9
554	Single-Walled Carbon Nanotube Film Supported Nanofiltration Membrane with a Nearly 10 nm Thick Polyamide Selective Layer for High-Flux and High-Rejection Desalination. <i>Small</i> , 2016, 12, 5034-5041.	5.2	298
555	Renewable energy powered membrane technology: Case study of St. Dorcas borehole in Tanzania demonstrating fluoride removal via nanofiltration/reverse osmosis. <i>Separation and Purification Technology</i> , 2016, 170, 445-452.	3.9	57
556	Combined Adsorption/Ultrafiltration of Secondary Effluents Using Powdered Zeolites. <i>Chemical Engineering and Technology</i> , 2016, 39, 285-292.	0.9	4
557	Chemical Considerations for an Updated National Assessment of Brackish Groundwater Resources. <i>Ground Water</i> , 2016, 54, 464-475.	0.7	17
558	A mathematical method and artificial neural network modeling to simulate osmosis membrane's performance. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1-11.	1.9	21
559	Enhanced Salt Removal by Unipolar Ion Conduction in Ion Concentration Polarization Desalination. <i>Scientific Reports</i> , 2016, 6, 25349.	1.6	65
560	Application of forward osmosis in reusing the brackish concentrate produced in reverse osmosis plants with secondary treated wastewater as feed solution: a case study. <i>Journal of Water Reuse and Desalination</i> , 2016, 6, 533-543.	1.2	1
562	Grafted cellulose acetate reverse osmosis membrane using 2-acrylamido-2-methylpropanesulfonic acid for water desalination. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1046-1056.	1.0	12
563	Implementation of dynamic working condition seawater desalination system optimization and simulation model. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1417-1431.	1.0	1
564	Study of the rejection of various solutes in OSN by a composite polydimethylsiloxane membrane: Investigation of the role of solute affinity. <i>Separation and Purification Technology</i> , 2016, 161, 193-201.	3.9	21
565	N-doped hierarchical porous carbon derived from hypercrosslinked diblock copolymer for capacitive deionization. <i>Separation and Purification Technology</i> , 2016, 165, 190-198.	3.9	77
566	Evaluation of economic feasibility of reverse osmosis and membrane distillation hybrid system for desalination. <i>Desalination and Water Treatment</i> , 2016, 57, 24662-24673.	1.0	19
567	The effect of suspended matter concentration on the coagulation-flocculation and decantation process for low brackish water $C_{(NaCl)} = 3 \text{ g/L}$. <i>Desalination and Water Treatment</i> , 2016, 57, 6106-6115.	1.0	0
568	Spacer-induced forward osmosis membrane integrity loss during gypsum scaling. <i>Desalination</i> , 2016, 392, 85-90.	4.0	26
569	A hybrid IEX-RO process with brine recycling for increased RO recovery without chemical addition: A pilot-scale study. <i>Desalination</i> , 2016, 394, 185-194.	4.0	20
570	Life Cycle Assessment of Filtration Systems of Reverse Osmosis Units: A Case Study of a University Campus. <i>Procedia CIRP</i> , 2016, 40, 268-273.	1.0	12
571	Beyond electricity: The potential of ocean thermal energy and ocean technology ecoparks in small tropical islands. <i>Energy Policy</i> , 2016, 98, 713-724.	4.2	30

#	ARTICLE	IF	CITATIONS
572	Effect of MCM-48 nanoparticles on the performance of thin film nanocomposite membranes for reverse osmosis application. <i>Desalination</i> , 2016, 394, 72-82.	4.0	62
573	Integration of Powdered Ca-Activated Zeolites in a Hybrid Sorption Membrane Ultrafiltration Process for Phosphate Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6204-6212.	1.8	12
574	Covalent synthesis of three-dimensional graphene oxide framework (GOF) membrane for seawater desalination. <i>Desalination</i> , 2016, 394, 123-130.	4.0	115
576	Transfer of neutral organic solutes during desalination by electrodialysis: Influence of the salt composition. <i>Journal of Membrane Science</i> , 2016, 511, 207-218.	4.1	46
577	Specific ion effects on the permselectivity of sulfonated poly(ether sulfone) cation exchange membranes. <i>Journal of Membrane Science</i> , 2016, 508, 146-152.	4.1	100
578	Membrane fouling and modification using surface treatment and layer-by-layer assembly of polyelectrolytes: State-of-the-art review. <i>Journal of Water Process Engineering</i> , 2016, 11, 68-87.	2.6	102
579	BDST modelling of sodium ion exchange column behaviour with strong acid cation resin in relation to coal seam water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2216-2224.	3.3	17
580	Environmental application of nanotechnology: air, soil, and water. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13754-13788.	2.7	265
581	Preparation of mixed matrix PES-based nanofiltration membrane filled with PANI-co-MWCNT composite nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1462-1471.	1.2	35
582	Surface Engineered Zeolite: An Active Interface for Rapid Adsorption and Degradation of Toxic Contaminants in Water. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12520-12527.	4.0	41
583	Recent advances in polymer and polymer composite membranes for reverse and forward osmosis processes. <i>Progress in Polymer Science</i> , 2016, 61, 104-155.	11.8	345
584	Maximize the operating profit of a SWRO-PRO integrated process for optimal water production and energy recovery. <i>Renewable Energy</i> , 2016, 94, 304-313.	4.3	11
585	Simultaneous removal of phosphate and ammonium using thermal-activated and lanthanum-doped zeolite: fixed-bed column and mechanism study. <i>Desalination and Water Treatment</i> , 2016, 57, 27279-27293.	1.0	12
586	The analysis of microbial community in the biodegradation, electron transfer based on sulfur metabolism integrated (BESI [®]) process for reverse osmosis concentrate (ROC) treatment by 454-pyrosequencing. <i>Desalination and Water Treatment</i> , 2016, 57, 29303-29315.	1.0	4
587	Fouling prevention, preparing for re-use and membrane recycling. Towards circular economy in RO desalination. <i>Desalination</i> , 2016, 393, 16-30.	4.0	117
588	Living biofouling-resistant membranes as a model for the beneficial use of engineered biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2802-11.	3.3	52
589	Faradaic Reactions in Water Desalination by Batch-Mode Capacitive Deionization. <i>Environmental Science and Technology Letters</i> , 2016, 3, 222-226.	3.9	250
590	Improved productivity of the MSF (multi-stage flashing) desalination plant by increasing the TBT (top) Tj ETQq1 1 0,784314 rgBT /Over	4.5	78

#	ARTICLE	IF	CITATIONS
591	Spray- and spin-assisted layer-by-layer assembly of copper nanoparticles on thin-film composite reverse osmosis membrane for biofouling mitigation. <i>Water Research</i> , 2016, 99, 188-199.	5.3	99
592	Excellent capacitive deionization performance of meso-carbon microbeads. <i>RSC Advances</i> , 2016, 6, 47285-47291.	1.7	10
593	DiaNanofiltration-based method for inexpensive and selective separation of Mg ²⁺ and Ca ²⁺ ions from seawater, for improving the quality of soft and desalinated waters. <i>Separation and Purification Technology</i> , 2016, 166, 83-91.	3.9	21
596	Integration of an atmospheric solid oxide fuel cell - gas turbine system with reverse osmosis for distributed seawater desalination in a process facility. <i>Energy Conversion and Management</i> , 2016, 126, 944-959.	4.4	32
597	Highly stable MIL-101(Cr) doped water permeable thin film nanocomposite membranes for water treatment. <i>RSC Advances</i> , 2016, 6, 82669-82675.	1.7	43
598	Selectrodialysis and bipolar membrane electrodialysis combination for industrial process brines treatment: Monovalent-divalent ions separation and acid and base production. <i>Desalination</i> , 2016, 399, 88-95.	4.0	80
599	Analysis of nanofiltration membrane performance during softening process of simulated brackish groundwater. <i>Desalination</i> , 2016, 399, 159-164.	4.0	18
600	RO applications in China: History, current status, and driving forces. <i>Desalination</i> , 2016, 397, 185-193.	4.0	17
601	Modified Kedem-Katchalsky equations for osmosis through nano-pore. <i>Desalination</i> , 2016, 399, 47-52.	4.0	4
602	Energy efficiency of batch and semi-batch (CCRO) reverse osmosis desalination. <i>Water Research</i> , 2016, 106, 272-282.	5.3	136
603	Enhancing removal and recovery of magnesium from aqueous solutions by using modified zeolite and bentonite and process optimization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3529-3540.	1.2	36
605	Evaluation of commercial PTFE membranes for desalination of brine water through vacuum membrane distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 110, 52-63.	1.8	26
606	Capacitive deionization (CDI) integrated with monovalent cation selective membrane for producing divalent cation-rich solution. <i>Desalination</i> , 2016, 400, 38-46.	4.0	84
607	From Global to Local and Vice Versa: On the Importance of the "Globalization" Agenda in Continental Groundwater Research and Policy-Making. <i>Environmental Management</i> , 2016, 58, 491-503.	1.2	9
608	What is the value of bottled water? Empirical evidence from the Italian retail market. <i>Water Resources and Economics</i> , 2016, 15, 57-66.	0.9	12
609	Seeding-free synthesis of zeolite FAU membrane for seawater desalination by pervaporation. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 377-383.	2.2	63
610	Synthesis of a terpolymer and a tetrapolymer using monomers of diallylamine salts and SO ₂ and their application as antiscalants. <i>Iranian Polymer Journal (English Edition)</i> , 2016, 25, 747-756.	1.3	4
611	Rapid thermal treatment of interlayer-free ethyl silicate 40 derived membranes for desalination. <i>Journal of Membrane Science</i> , 2016, 516, 94-103.	4.1	24

#	ARTICLE	IF	CITATIONS
612	Global and Regional Evaluation of Energy for Water. <i>Environmental Science & Technology</i> , 2016, 50, 9736-9745.	4.6	78
613	Optimization on a new hybrid Forward osmosis-Electrodialysis-Reverse osmosis seawater desalination process. <i>Desalination</i> , 2016, 398, 265-281.	4.0	43
614	On the brine re-utilization of a multi-stage flashing (MSF) desalination plant. <i>Desalination</i> , 2016, 398, 64-76.	4.0	35
615	Assessing biofouling resistance of a polyamide reverse osmosis membrane surface-modified with a zwitterionic polymer. <i>Journal of Membrane Science</i> , 2016, 520, 490-498.	4.1	64
616	Asymmetric Membranes Containing Micron-Size Silicon for High Performance Lithium Ion Battery Anode. <i>Electrochimica Acta</i> , 2016, 213, 46-54.	2.6	13
617	Does Hydrophilic Polydopamine Coating Enhance Membrane Rejection of Hydrophobic Endocrine-Disrupting Compounds?. <i>Environmental Science and Technology Letters</i> , 2016, 3, 332-338.	3.9	117
618	Life cycle assessment of environmental impacts and energy demand for capacitive deionization technology. <i>Desalination</i> , 2016, 399, 53-60.	4.0	72
619	Investigations of inorganic and organic fouling behaviors, antifouling and cleaning strategies for pressure retarded osmosis (PRO) membrane using seawater desalination brine and wastewater. <i>Water Research</i> , 2016, 103, 264-275.	5.3	62
620	Integrating desalination to reservoir operation to increase redundancy for more secure water supply. <i>Water Resources Research</i> , 2016, 52, 6137-6155.	1.7	8
621	Reverse osmosis brine for phosphorus recovery from source separated urine. <i>Chemosphere</i> , 2016, 165, 202-210.	4.2	19
622	Integrally skinned nano-cellular crosslinked asymmetric thin films infused with PEO-PPO-PEO block copolymer/ZnO-NPs for desalination using sea salt. <i>Materials Chemistry and Physics</i> , 2016, 183, 595-605.	2.0	15
623	Direct energy recovery system for membrane capacitive deionization. <i>Desalination</i> , 2016, 398, 144-150.	4.0	98
624	2D nanostructures for water purification: graphene and beyond. <i>Nanoscale</i> , 2016, 8, 15115-15131.	2.8	318
625	Polyamide/polyacrylonitrile thin film composites as forward osmosis membranes. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	21
626	Experimental evaluation of a multi-skid reverse osmosis unit operating at fluctuating power input. <i>Desalination</i> , 2016, 398, 77-86.	4.0	27
627	Effect of water temperature on biofouling development in reverse osmosis membrane systems. <i>Water Research</i> , 2016, 103, 149-159.	5.3	58
628	Hydroacid magnetic nanoparticles in forward osmosis for seawater desalination and efficient regeneration via integrated magnetic and membrane separations. <i>Journal of Membrane Science</i> , 2016, 520, 550-559.	4.1	32
629	Ion transport in microbial fuel cells: Key roles, theory and critical review. <i>Applied Energy</i> , 2016, 183, 1682-1704.	5.1	139

#	ARTICLE	IF	CITATIONS
630	Precipitation of Calcium Carbonate in Porous Media in the Presence of <i>n</i> -Dodecane. <i>Crystal Growth and Design</i> , 2016, 16, 6874-6884.	1.4	13
631	Effect of Biofilm on Inorganic Suspended Solids Accumulation on Reverse Osmosis Membranes. <i>Journal of Water and Environment Technology</i> , 2016, 14, 308-318.	0.3	0
632	Silicon Asymmetric Membranes for Efficient Lithium Storage: A Scalable Method. <i>Energy Technology</i> , 2016, 4, 502-509.	1.8	7
633	Chemically crosslinked rGO laminate film as an ion selective barrier of composite membrane. <i>Journal of Membrane Science</i> , 2016, 515, 204-211.	4.1	39
634	Life Cycle Analysis applied to acrylic acid production process with different fuels for steam generation. <i>Journal of Cleaner Production</i> , 2016, 133, 294-303.	4.6	20
635	Membranes technology used in water treatment: Chemical, microbiological and ecotoxicological analysis. <i>Science of the Total Environment</i> , 2016, 568, 998-1009.	3.9	22
636	New trends in removing heavy metals from wastewater. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6509-6518.	1.7	186
637	Effect of chemical pretreatment on the silt density index of brackish water from north and south Kuwait. <i>Desalination and Water Treatment</i> , 2016, 57, 26907-26915.	1.0	0
638	Introduction to Membrane Processes for Water Treatment. , 2016, , 15-52.		22
639	Water Treatment by Electromembrane Processes. , 2016, , 181-214.		4
640	Removal of heavy metal ions using functionalized graphene membranes: a molecular dynamics study. <i>RSC Advances</i> , 2016, 6, 63190-63199.	1.7	45
641	Modeling, control, and dynamic performance analysis of a reverse osmosis desalination plant integrated within hybrid energy systems. <i>Energy</i> , 2016, 112, 52-66.	4.5	52
642	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.	2.7	10
643	Progress and challenges of carbon nanotube membrane in water treatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 999-1046.	6.6	70
644	Performance evaluation of carbon nanotube enhanced membranes for SWRO pretreatment application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 38, 123-131.	2.9	3
645	Brackish water desalination using electrodeionization reversal. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 104, 262-270.	1.8	29
646	Using quasi-static model for water/power management of a stand-alone wind/photovoltaic/BWRO desalination system without batteries. , 2016, , .		2
647	The Carbon-Water Interface: Modeling Challenges and Opportunities for the Water-Energy Nexus. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 533-556.	3.3	72

#	ARTICLE	IF	CITATIONS
648	Performance evaluation of two-stage spiral wound forward osmosis elements at various operation conditions. <i>Desalination and Water Treatment</i> , 2016, 57, 24583-24594.	1.0	18
649	Health effects of desalinated water: Role of electrolyte disturbance in cancer development. <i>Environmental Research</i> , 2016, 150, 191-204.	3.7	23
650	A preliminary study on the offshore stratigraphy in Hong Kong and its hydrogeological implications. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	7
651	The Global Rise of Zero Liquid Discharge for Wastewater Management: Drivers, Technologies, and Future Directions. <i>Environmental Science & Technology</i> , 2016, 50, 6846-6855.	4.6	682
652	MBBR followed by microfiltration and reverse osmosis as a compact alternative for advanced treatment of a pesticide-producing industry wastewater towards reuse. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1657-1667.	0.9	2
653	Highly improved reverse osmosis performance of novel PVA/DGEBA cross-linked membranes by incorporation of Pluronic F-127 and MWCNTs for water desalination. <i>Desalination</i> , 2016, 397, 53-66.	4.0	45
654	Smart water grid: desalination water management platform. <i>Desalination and Water Treatment</i> , 2016, 57, 2845-2854.	1.0	4
655	Optimization of operating variables in a pilot-scale reverse osmosis membrane process for reclamation of tunnel construction wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 12082-12089.	1.0	1
656	A review on fouling of membrane distillation. <i>Desalination and Water Treatment</i> , 2016, 57, 10052-10076.	1.0	83
657	High-recovery electrodialysis reversal for the desalination of inland brackish waters. <i>Desalination and Water Treatment</i> , 2016, 57, 11029-11039.	1.0	18
658	Changes in the components and biotoxicity of dissolved organic matter in a municipal wastewater reclamation reverse osmosis system. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2149-2156.	1.2	6
659	Osmotic membrane bioreactor (OMBR) technology for wastewater treatment and reclamation: Advances, challenges, and prospects for the future. <i>Journal of Membrane Science</i> , 2016, 504, 113-132.	4.1	217
660	A prediction model of mass transfer through an electrodialysis cell. <i>Desalination and Water Treatment</i> , 2016, 57, 22290-22303.	1.0	4
661	Determination of cobalt in high-salinity reverse osmosis concentrates using flame atomic absorption spectrometry after cold-induced aggregation microextraction. <i>Analytical Methods</i> , 2016, 8, 1908-1913.	1.3	3
662	Hybrid coagulation-NF membrane process for brackish water treatment: Effect of antiscalant on water characteristics and membrane fouling. <i>Desalination</i> , 2016, 393, 144-150.	4.0	35
663	Mixed Anion Exchange Resins for Tunable Control of Sulfate-Chloride Selectivity for Sustainable Membrane Pretreatment. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 647-655.	1.8	7
664	Reverse osmosis applications: Prospect and challenges. <i>Desalination</i> , 2016, 391, 112-125.	4.0	247
665	Characterization of reverse osmosis and nanofiltration membranes: effects of operating conditions and specific ion rejection. <i>Desalination and Water Treatment</i> , 2016, 57, 23461-23472.	1.0	21

#	ARTICLE	IF	CITATIONS
666	Flotation behaviour of malachite in mono- and di-valent salt solutions using sodium oleate as a collector. <i>International Journal of Mineral Processing</i> , 2016, 146, 38-45.	2.6	74
667	Post-treatment of anaerobic reactor effluent using coagulation/oxidation followed by double filtration. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6244-6252.	2.7	10
668	Enhancing the performance of aromatic polyamide reverse osmosis membrane by surface modification via covalent attachment of polyvinyl alcohol (PVA). <i>Journal of Membrane Science</i> , 2016, 501, 209-219.	4.1	135
669	Modeling seawater reverse osmosis system under degradation conditions of membrane performance: assessment of isobaric energy recovery devices and feed pressure control benefits. <i>Desalination and Water Treatment</i> , 2016, 57, 20210-20218.	1.0	4
670	Smart composite membranes for advanced wastewater treatments. , 2016, , 371-419.		15
671	Multivariate comparison of reverse osmosis and nanofiltration membranes through tree cluster analysis. <i>Desalination and Water Treatment</i> , 2016, 57, 23273-23279.	1.0	4
672	Comparison of flocculant aids as pretreatment reagent for membrane filtration process by fingerprint analysis of organic matters in secondary effluent. <i>Desalination and Water Treatment</i> , 2016, 57, 21743-21751.	1.0	0
673	Comprehensive pilot-scale investigation of seawater nanofiltration softening by increasing permeate recovery with recirculation. <i>Desalination and Water Treatment</i> , 2016, 57, 17271-17282.	1.0	6
674	Calcium carbonate scaling of desalination membranes: Assessment of scaling parameters from dead-end filtration experiments. <i>Journal of Membrane Science</i> , 2016, 510, 293-305.	4.1	32
675	Production of high purity water using membrane-free electrodeionization with improved resin layer structure. <i>Separation and Purification Technology</i> , 2016, 164, 89-96.	3.9	23
676	CCD series no-20: high-flux low-energy upgrade of municipal water supplies with 96% recovery for boiler-feed and related applications. <i>Desalination and Water Treatment</i> , 2016, 57, 20219-20227.	1.0	3
677	Desalination by pervaporation: A review. <i>Desalination</i> , 2016, 387, 46-60.	4.0	232
678	Interconnected PVDF-CTFE hydrophobic membranes for MD desalination: effect of PEGs on phase inversion process. <i>RSC Advances</i> , 2016, 6, 20926-20937.	1.7	13
679	Direct fertigation with brackish water by a forward osmosis system converting domestic reverse osmosis module into forward osmosis membrane element. <i>Desalination and Water Treatment</i> , 2016, 57, 15740-15747.	1.0	15
680	Simultaneous arsenate and alkali removal from alkaline wastewater by in-situ formation of Zn-Al layered double hydroxide. <i>Microporous and Mesoporous Materials</i> , 2016, 227, 137-143.	2.2	11
681	In situ surface functionalization of reverse osmosis membranes with biocidal copper nanoparticles. <i>Desalination</i> , 2016, 388, 1-8.	4.0	130
682	Optimization of gravity-driven membrane (GDM) filtration process for seawater pretreatment. <i>Water Research</i> , 2016, 93, 133-140.	5.3	78
683	The role of desalination in removal of the chemical, physical and biological parameters of drinking water (a case study of Birjand City, Iran). <i>Desalination and Water Treatment</i> , 2016, 57, 25331-25336.	1.0	8

#	ARTICLE	IF	CITATIONS
684	Dynamics of water and solute transport in polymeric reverse osmosis membranes via molecular dynamics simulations. <i>Journal of Membrane Science</i> , 2016, 506, 95-108.	4.1	132
685	Bacterial production of transparent exopolymer particles during static and laboratory-based cross-flow experiments. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 376-382.	1.2	3
686	Sensory quality of drinking water produced by reverse osmosis membrane filtration followed by remineralisation. <i>Water Research</i> , 2016, 94, 42-51.	5.3	31
687	High capacity and high rate capability of nitrogen-doped porous hollow carbon spheres for capacitive deionization. <i>Applied Surface Science</i> , 2016, 369, 460-469.	3.1	126
688	Strategies for the management and treatment of coal seam gas associated water. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 669-691.	8.2	74
689	Evaluation of draw solution effectiveness in a forward osmosis process. <i>Desalination and Water Treatment</i> , 2016, 57, 13425-13432.	1.0	11
690	Gross vs. net energy: Towards a rational framework for assessing the practical viability of pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2016, 503, 132-147.	4.1	31
691	Performance investigation of a power, heating and seawater desalination poly-generation scheme in an off-shore oil field. <i>Energy</i> , 2016, 98, 26-39.	4.5	19
692	Development of Ethenylene-Bridged Organosilica Membranes for Desalination Applications. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2183-2190.	1.8	32
693	Facile synthesis of Fe ₃ O ₄ nanoparticles decorated on 3D graphene aerogels as broad-spectrum sorbents for water treatment. <i>Applied Surface Science</i> , 2016, 369, 11-18.	3.1	69
694	The effect of different surface conditioning layers on bacterial adhesion on reverse osmosis membranes. <i>Desalination</i> , 2016, 387, 1-13.	4.0	36
695	Effective in-situ chemical surface modification of forward osmosis membranes with polydopamine-induced graphene oxide for biofouling mitigation. <i>Desalination</i> , 2016, 385, 126-137.	4.0	91
696	Desalinated seawater into pilot-scale drinking water distribution system: chlorine decay and trihalomethanes formation. <i>Desalination and Water Treatment</i> , 2016, 57, 19149-19159.	1.0	3
697	Advanced organic and biological analysis of dual media filtration used as a pretreatment in a full-scale seawater desalination plant. <i>Desalination</i> , 2016, 385, 83-92.	4.0	24
698	Hydration effects and antifouling properties of poly(vinyl chloride-co-PEGMA) membranes studied using molecular dynamics simulations. <i>Applied Surface Science</i> , 2016, 369, 241-250.	3.1	19
699	Cleaning efficacy of hydroxypropyl-beta-cyclodextrin for biofouling reduction on reverse osmosis membranes. <i>Biofouling</i> , 2016, 32, 359-370.	0.8	14
700	Aquaporin-based biomimetic reverse osmosis membranes: Stability and long term performance. <i>Journal of Membrane Science</i> , 2016, 508, 94-103.	4.1	115
701	Application of integrated forward and reverse osmosis for coal mine wastewater desalination. <i>Separation and Purification Technology</i> , 2016, 163, 181-188.	3.9	64

#	ARTICLE	IF	CITATIONS
702	Simultaneous nitrogen, phosphorous, and hardness removal from reverse osmosis concentrate by microalgae cultivation. <i>Water Research</i> , 2016, 94, 215-224.	5.3	82
703	The Critical Need for Increased Selectivity, Not Increased Water Permeability, for Desalination Membranes. <i>Environmental Science and Technology Letters</i> , 2016, 3, 112-120.	3.9	527
704	Materials and membrane technologies for water and energy sustainability. <i>Sustainable Materials and Technologies</i> , 2016, 7, 1-28.	1.7	279
705	Synthesis of highly stable graphene oxide membranes on polydopamine functionalized supports for seawater desalination. <i>Chemical Engineering Science</i> , 2016, 146, 159-165.	1.9	186
706	Electrodialysis with Bipolar Membranes for Valorization of Brines. <i>Separation and Purification Reviews</i> , 2016, 45, 275-287.	2.8	51
707	Seawater desalination for crop irrigation – A review of current experiences and revealed key issues. <i>Desalination</i> , 2016, 381, 58-70.	4.0	113
708	Highly porous cellulosic nanocomposite membranes with enhanced performance for forward osmosis desalination. <i>Desalination</i> , 2016, 381, 117-125.	4.0	45
709	High-flux and fouling-resistant reverse osmosis membrane prepared with incorporating zwitterionic amine monomers via interfacial polymerization. <i>Desalination</i> , 2016, 381, 100-110.	4.0	89
710	Fouling characteristics of reverse osmosis membranes at different positions of a full-scale plant for municipal wastewater reclamation. <i>Water Research</i> , 2016, 90, 329-336.	5.3	114
711	Recent progress in development of high performance polymeric membranes and materials for metal plating wastewater treatment: A review. <i>Journal of Water Process Engineering</i> , 2016, 9, 78-110.	2.6	143
712	Economic assessment of the desalination of the Guarani Aquifer System by reverse osmosis to produce potable water in southern Brazil. <i>Desalination and Water Treatment</i> , 2016, 57, 19690-19701.	1.0	3
713	Assessment of hardness, microorganism and organic matter removal from seawater by electrocoagulation as a pretreatment of desalination by reverse osmosis. <i>Desalination</i> , 2016, 393, 90-101.	4.0	83
714	Energy recovery by pressure retarded osmosis (PRO) in SWRO – PRO integrated processes. <i>Applied Energy</i> , 2016, 162, 687-698.	5.1	102
715	Concentrating underground brine by FO process: Influence of membrane types and spacer on membrane scaling. <i>Chemical Engineering Journal</i> , 2016, 285, 92-100.	6.6	21
716	Pressure-retarded osmosis for power generation from salinity gradients: is it viable?. <i>Energy and Environmental Science</i> , 2016, 9, 31-48.	15.6	289
717	Development of thin-film composite PRO membranes with high power density. <i>Desalination and Water Treatment</i> , 2016, 57, 10093-10100.	1.0	6
718	Reverse osmosis membranes surface-modified using an initiated chemical vapor deposition technique show resistance to alginate fouling under cross-flow conditions: Filtration & subsequent characterization. <i>Desalination</i> , 2016, 379, 108-117.	4.0	48
719	Pilot-scale study on the treatment of basal aquifer water using ultrafiltration, reverse osmosis and evaporation/crystallization to achieve zero-liquid discharge. <i>Journal of Environmental Management</i> , 2016, 165, 213-223.	3.8	32

#	ARTICLE	IF	CITATIONS
720	Thermoeconomic investigation of coupling MED-TVC with a combined cycle power plant. Desalination and Water Treatment, 2016, 57, 17707-17721.	1.0	8
721	Conjugation of silica nanoparticles with cellulose acetate/polyethylene glycol 300 membrane for reverse osmosis using MgSO ₄ solution. Carbohydrate Polymers, 2016, 136, 551-559.	5.1	46
722	Synthesis and characterization of nanoporous silica SBA-15 diaminocyclohexane and its application in removal of Cu(II) and Ni(II) from aqueous solution. Desalination and Water Treatment, 2016, 57, 15397-15409.	1.0	10
723	Dynamics of microbial communities in an integrated ultrafiltration–reverse osmosis desalination pilot plant located at the Arabian Gulf. Desalination and Water Treatment, 2016, 57, 16310-16323.	1.0	23
724	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. Journal of Membrane Science, 2016, 497, 430-449.	4.1	277
725	Effect of high salinity on the performance of forward osmosis: Water flux, membrane scaling and removal efficiency. Desalination, 2016, 378, 67-73.	4.0	21
726	Application of seawater dilution process to SWRO filtration system for low-energy desalination. Desalination and Water Treatment, 2016, 57, 7414-7421.	1.0	1
727	Identifying facile and accurate methods to measure the thickness of the active layers of thin-film composite membranes – A comparison of seven characterization techniques. Journal of Membrane Science, 2016, 498, 167-179.	4.1	93
728	Effect of operating conditions on biofouling in reverse osmosis membrane processes: Bacterial adhesion, biofilm formation, and permeate flux decrease. Desalination, 2016, 378, 74-79.	4.0	38
729	Effect of High Chloride Concentrations on Microbial Regrowth in Drinking Water Distribution Systems. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	7
730	Fractional factorial design of water desalination by neutralization dialysis process: concentration, flow rate, and volume effects. Desalination and Water Treatment, 2016, 57, 14403-14413.	1.0	7
731	Novel sulfonated polyamide thin-film composite nanofiltration membranes with improved water flux and anti-fouling properties. Desalination, 2016, 377, 11-22.	4.0	76
732	Pervaporative desalination of seawater by using composite and blended poly(vinyl alcohol) membranes. Desalination and Water Treatment, 2016, 57, 4749-4755.	1.0	11
733	Membrane materials for water purification: design, development, and application. Environmental Science: Water Research and Technology, 2016, 2, 17-42.	1.2	494
734	Investigating the void structure of the polyamide active layers of thin-film composite membranes. Journal of Membrane Science, 2016, 497, 365-376.	4.1	178
735	Application of a FO/MD-combined system for the desalination of saline solution. Desalination and Water Treatment, 2016, 57, 14347-14354.	1.0	14
736	Evaluation of membrane-based desalting processes for RO brine treatment. Desalination and Water Treatment, 2016, 57, 7432-7439.	1.0	12
737	Assessment of the water chemical quality improvement based on human health risk indexes: Application to a drinking water treatment plant incorporating membrane technologies. Science of the Total Environment, 2016, 540, 334-343.	3.9	33

#	ARTICLE	IF	CITATIONS
738	Nanofiltration membranes of poly(styrene-co-chloro-methylstyrene)-grafted-DGEBA reinforced with gold and polystyrene nanoparticles for water purification. <i>Applied Water Science</i> , 2017, 7, 1323-1335.	2.8	3
739	Assessment of direct contact membrane distillation under different configurations, velocities and membrane properties. <i>Applied Energy</i> , 2017, 185, 2058-2073.	5.1	52
740	Osmosis process for leachate treatment in industrial platform: Economic and performances evaluations to zero liquid discharge. <i>Journal of Environmental Management</i> , 2017, 203, 782-790.	3.8	16
741	Adsorption of Phosphate Using Alginate-/Zirconium-Grafted Newspaper Pellets: Fixed-Bed Column Study and Application. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 1399-1412.	1.7	15
742	Robust Aqua Material: A Pressure-Resistant Self-Assembled Membrane for Water Purification. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2203-2207.	7.2	27
743	Robuste "Aqua"Materialien: eine druckstabile, selbstorganisierte Membran zur Wasserreinigung. <i>Angewandte Chemie</i> , 2017, 129, 2237-2242.	1.6	2
744	Materials for next-generation molecularly selective synthetic membranes. <i>Nature Materials</i> , 2017, 16, 289-297.	13.3	831
745	Electricity generation, desalination and microalgae cultivation in a biocathode-microbial desalination cell. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 843-848.	3.3	63
746	Potential of electrodialytic techniques in brackish desalination and recovery of industrial process water for reuse. <i>Desalination</i> , 2017, 409, 108-114.	4.0	61
747	Surface micro-patterning as a promising platform towards novel polyamide thin-film composite membranes of superior performance. <i>Journal of Membrane Science</i> , 2017, 529, 11-22.	4.1	59
748	Enhanced desalination of polyamide thin film nanocomposite incorporated with acid treated multiwalled carbon nanotube-titania nanotube hybrid. <i>Desalination</i> , 2017, 409, 163-170.	4.0	93
749	Effects of chemical cleaning on RO membrane inorganic, organic and microbial foulant removal in a full-scale plant for municipal wastewater reclamation. <i>Water Research</i> , 2017, 113, 1-10.	5.3	87
750	A protic salt-derived porous carbon for efficient capacitive deionization: Balance between porous structure and chemical composition. <i>Carbon</i> , 2017, 116, 21-32.	5.4	82
751	Application of House of Quality in assessment of seawater pretreatment technologies. <i>Journal of Cleaner Production</i> , 2017, 148, 223-232.	4.6	24
752	Wind-powered desalination for strategic water storage: Techno-economic assessment of concept. <i>Desalination</i> , 2017, 408, 36-51.	4.0	51
753	Predicting Salt Permeability Coefficients in Highly Swollen, Highly Charged Ion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4044-4056.	4.0	126
754	Conceptual designs of integrated process for simultaneous production of potable water, electricity, and salt. <i>Desalination</i> , 2017, 409, 96-107.	4.0	5
755	Robust construction of a graphene oxide barrier layer on a nanofibrous substrate assisted by the flexible poly(vinylalcohol) for efficient pervaporation desalination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3558-3568.	5.2	86

#	ARTICLE	IF	CITATIONS
756	Multi-objective optimization of a pressurized solid oxide fuel cell–gas turbine hybrid system integrated with seawater reverse osmosis. <i>Energy</i> , 2017, 123, 594-614.	4.5	31
757	Isolation and molecular characterization of dissolved organic phosphorus using electro dialysis–reverse osmosis and solution ³¹ P–NMR. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 436-452.	1.0	14
758	Hydrodynamic analysis of spiral wound reverse osmosis membrane recovery fraction and permeate water flow rate. <i>Desalination</i> , 2017, 411, 59-68.	4.0	12
759	A developed solar-powered desalination system for enhancing fresh water productivity. <i>Solar Energy</i> , 2017, 146, 20-29.	2.9	38
760	Organic fouling in surface modified reverse osmosis membranes: Filtration studies and subsequent morphological and compositional characterization. <i>Journal of Membrane Science</i> , 2017, 527, 152-163.	4.1	36
761	On-site nutrient recovery and removal from source-separated urine by phosphorus precipitation and short-cut nitrification-denitrification. <i>Chemosphere</i> , 2017, 175, 210-218.	4.2	24
762	Real-time direct detection of silica scaling on RO membranes. <i>Journal of Membrane Science</i> , 2017, 528, 346-358.	4.1	43
763	SWRO brine reuse by diaphragm-type chlor-alkali electrolysis to produce alkali-activated slag. <i>Desalination</i> , 2017, 413, 10-18.	4.0	9
764	Extending the life-cycle of reverse osmosis membranes: A review. <i>Waste Management and Research</i> , 2017, 35, 456-470.	2.2	46
765	Chlorine-Resistant Polyamide Reverse Osmosis Membrane with Monitorable and Regenerative Sacrificial Layers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10214-10223.	4.0	62
766	Removal of Heavy Metals from Industrial Wastewaters: A Review. <i>ChemBioEng Reviews</i> , 2017, 4, 37-59.	2.6	739
767	Antiscaling efficacy of CaCO ₃ and CaSO ₄ on polyethylene glycol (PEG)-modified reverse osmosis membranes in the presence of humic acid: interplay of membrane surface properties and water chemistry. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5647-5657.	1.3	28
768	Facile Modification of Reverse Osmosis Membranes by Surfactant-Assisted Acrylate Grafting for Enhanced Selectivity. <i>Environmental Science & Technology</i> , 2017, 51, 2347-2354.	4.6	13
769	Aqueous Boron Removal by Using Electrospun Poly(vinyl alcohol) (PVA) Mats: A Combined Study of IR/Raman Spectroscopy and Computational Chemistry. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2253-2258.	1.1	5
770	Water recovery from brines and salt-saturated solutions: operability and thermodynamic efficiency considerations for desalination technologies. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2506-2518.	1.6	28
771	Electrocoagulation process considerations during advanced pretreatment for brackish inland surface water desalination: Nanofilter fouling control and permeate water quality. <i>Desalination</i> , 2017, 410, 66-76.	4.0	23
772	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.	4.0	36
773	Large scale energy storage using multistage osmotic processes: approaching high efficiency and energy density. <i>Sustainable Energy and Fuels</i> , 2017, 1, 599-614.	2.5	7

#	ARTICLE	IF	CITATIONS
774	A review of reverse osmosis membrane fouling and control strategies. <i>Science of the Total Environment</i> , 2017, 595, 567-583.	3.9	600
775	Adsorption of Cu ²⁺ from aqueous solution by a novel material; azomethine functionalized magnetic nanoparticles. <i>Separation and Purification Technology</i> , 2017, 183, 204-215.	3.9	36
776	Hybrid electrocoagulation/electroflotation/electrodisinfection process as a pretreatment for seawater desalination. <i>Chemical Engineering Science</i> , 2017, 170, 530-541.	1.9	32
777	Performance optimization of integrated electrochemical capacitive deionization and reverse electro dialysis model through a series pass desorption process. <i>Journal of Electroanalytical Chemistry</i> , 2017, 795, 41-50.	1.9	16
778	Dangerous assemblages: Salts, trihalomethanes and endocrine disruptors in the water palimpsest of the Llobregat River, Catalonia. <i>Geoforum</i> , 2017, 81, 153-162.	1.4	15
779	Monovalent and divalent ion sorption in a cation exchange membrane based on cross-linked poly(p-styrene sulfonate-co-divinylbenzene). <i>Journal of Membrane Science</i> , 2017, 535, 132-142.	4.1	64
780	Integrated processes for desalination and salt production: A mini-review. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	23
781	The influence of electromagnetic fields from two commercially available water-treatment devices on calcium carbonate precipitation. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 566-572.	1.2	18
782	Techno-economic assessment of a closed-loop osmotic heat engine. <i>Journal of Membrane Science</i> , 2017, 535, 178-187.	4.1	37
783	Treatment of a hypersaline brine, extracted from a potential CO ₂ sequestration site, and an industrial wastewater by membrane distillation and forward osmosis. <i>Chemical Engineering Journal</i> , 2017, 325, 415-423.	6.6	26
784	Spacer optimization strategy for direct contact membrane distillation: Shapes, configurations, diameters, and numbers of spacer filaments. <i>Desalination</i> , 2017, 417, 9-18.	4.0	49
785	Pushing desalination recovery to the maximum limit: Membrane and thermal processes integration. <i>Desalination</i> , 2017, 416, 54-64.	4.0	87
786	Understanding the impact of membrane properties and transport phenomena on the energetic performance of membrane distillation desalination. <i>Journal of Membrane Science</i> , 2017, 539, 458-474.	4.1	100
787	Effects of drinking desalinated seawater on cell viability and proliferation. <i>Journal of Water and Health</i> , 2017, 15, 360-366.	1.1	1
788	Mussel-inspired fabrication of functional materials and their environmental applications: Progress and prospects. <i>Applied Materials Today</i> , 2017, 7, 222-238.	2.3	282
789	Acyl-chloride quenching following interfacial polymerization to modulate the water permeability, selectivity, and surface charge of desalination membranes. <i>Journal of Membrane Science</i> , 2017, 535, 357-364.	4.1	58
790	Water desalination using nano screw pumps with a considerable processing rate. <i>RSC Advances</i> , 2017, 7, 20360-20368.	1.7	5
791	Cysteamine- and graphene oxide-mediated copper nanoparticle decoration on reverse osmosis membrane for enhanced anti-microbial performance. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 330-340.	5.0	53

#	ARTICLE	IF	CITATIONS
792	Predicting scale formation during electro-dialytic nutrient recovery. <i>Water Research</i> , 2017, 110, 202-210.	5.3	28
793	Efficient Removal of Pb(II) from Aqueous Solution by Modified Montmorillonite/Carbon Composite: Equilibrium, Kinetics, and Thermodynamics. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 333-340.	1.0	31
794	A review of the current status of small-scale seawater reverse osmosis desalination. <i>Water International</i> , 2017, 42, 618-631.	0.4	22
795	Ultra-thin, multi-layered polyamide membranes: Synthesis and characterization. <i>Journal of Membrane Science</i> , 2017, 540, 10-18.	4.1	66
796	Uniform hydrophobic electrospun nanofibrous layer composed of polysulfone and sodium dodecyl sulfate for improved desalination performance. <i>Separation and Purification Technology</i> , 2017, 186, 352-365.	3.9	25
797	Exploration of polyepoxysuccinic acid as a novel draw solution in the forward osmosis process. <i>RSC Advances</i> , 2017, 7, 30687-30698.	1.7	29
798	Influence of surface properties of RO membrane on membrane fouling for treating textile secondary effluent. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16253-16262.	2.7	28
799	Ultrafast permeation of seawater pervaporation using single-layered C ₂ N via strain engineering. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15973-15979.	1.3	20
800	On the optimal design of forward osmosis desalination systems with NH ₃ -CO ₂ -H ₂ O solutions. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 811-829.	1.2	7
801	Enhancement of surface properties and performance of reverse osmosis membranes after surface modification: A review. <i>Desalination</i> , 2017, 420, 330-383.	4.0	214
802	Short-term effects of SWRO desalination brine on benthic heterotrophic microbial communities. <i>Desalination</i> , 2017, 417, 52-59.	4.0	63
803	Gravity-driven microfiltration pretreatment for reverse osmosis (RO) seawater desalination: Microbial community characterization and RO performance. <i>Desalination</i> , 2017, 418, 1-8.	4.0	50
804	The application of electromagnetic fields to the control of the scaling and biofouling of reverse osmosis membranes - A review. <i>Desalination</i> , 2017, 418, 19-34.	4.0	79
805	Bioelectrochemical precipitation system for removal of scale-forming ions from seawater using two different buffers. <i>Desalination</i> , 2017, 418, 35-42.	4.0	11
806	Recent Developments in Forward Osmosis Processes. <i>Water Intelligence Online</i> , 2017, 16, 9781780408125.	0.3	9
807	Poly(vinyl alcohol) incorporated with surfactant based electrospun nanofibrous layer onto polypropylene mat for improved desalination by using membrane distillation. <i>Desalination</i> , 2017, 414, 18-27.	4.0	45
808	On the efficiency of a hydrogel-based desalination cycle. <i>Desalination</i> , 2017, 414, 28-34.	4.0	33
809	Synthesis of zinc oxide nanocomposites using poly (ionic liquids) based on quaternary ammonium acrylamidomethyl propane sulfonate for water treatment. <i>Journal of Molecular Liquids</i> , 2017, 236, 38-47.	2.3	29

#	ARTICLE	IF	CITATIONS
810	Membrane and spacer evaluation with respect to future module design in membrane distillation. <i>Desalination</i> , 2017, 413, 154-167.	4.0	38
811	Effect of cellulose triacetate membrane thickness on forward osmosis performance and application for spent electroless nickel plating baths. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45049.	1.3	14
812	The effect of increased top brine temperature on the performance and design of OT-MSF using a case study. <i>Desalination</i> , 2017, 412, 32-38.	4.0	29
813	Atomistic Understanding of Zeolite Nanosheets for Water Desalination. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11273-11280.	1.5	60
814	Flow-Electrode Capacitive Deionization for Double Displacement Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3906-3912.	3.2	39
815	Removal of free active chlorine from synthetic wastewater by MEUF process using polyethersulfone/titania nanocomposite membrane. <i>Separation and Purification Technology</i> , 2017, 181, 213-222.	3.9	31
816	Application of nanoadsorbents for removal of lead from water. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 1135-1154.	1.8	41
817	Highly crosslinked, chlorine tolerant polymer network entwined graphene oxide membrane for water desalination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1533-1540.	5.2	96
818	Ultrathin Polyamide Membranes Fabricated from Free-Standing Interfacial Polymerization: Synthesis, Modifications, and Post-treatment. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 513-523.	1.8	63
819	Enhanced water recovery in the coal seam gas industry using a dual reverse osmosis system. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 278-292.	1.2	19
820	Physiological Responses of Salinity-Stressed <i>Vibrio</i> sp. and the Effect on the Biofilm Formation on a Nanofiltration Membrane. <i>Environmental Science & Technology</i> , 2017, 51, 1249-1258.	4.6	50
821	Shale gas flowback water desalination: Single vs multiple-effect evaporation with vapor recompression cycle and thermal integration. <i>Desalination</i> , 2017, 404, 230-248.	4.0	76
822	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. <i>Small</i> , 2017, 13, 1602992.	5.2	259
823	Extending the uppermost pore diameter measureable via Evaporometry. <i>Journal of Membrane Science</i> , 2017, 524, 637-643.	4.1	8
824	Application of multiple modified fouling index (MFI) measurements at full-scale SWRO plant. <i>Desalination</i> , 2017, 407, 24-32.	4.0	25
825	Study of mass transfer coefficient in membrane desalination. <i>Desalination</i> , 2017, 407, 46-51.	4.0	42
826	Supercapacitive microbial desalination cells: New class of power generating devices for reduction of salinity content. <i>Applied Energy</i> , 2017, 208, 25-36.	5.1	43
827	Emerging Scientific and Engineering Opportunities within the Water-Energy Nexus. <i>Joule</i> , 2017, 1, 665-688.	11.7	109

#	ARTICLE	IF	CITATIONS
828	Natural circulation solar thermal system for water disinfection. <i>Energy</i> , 2017, 141, 1204-1214.	4.5	11
829	Highly effective and reusable sulfonated pentablock copolymer nanocomposites for water purification applications. <i>RSC Advances</i> , 2017, 7, 45521-45534.	1.7	30
830	Comparing Biofouling Development in Membrane Fouling Simulators and Spiral-Wound Reverse Osmosis Elements Using River Water and Municipal Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11628-11633.	1.8	7
831	Numerical investigation of air gap membrane distillation (AGMD): Seeking optimal performance. <i>Desalination</i> , 2017, 424, 122-130.	4.0	46
832	Application of sensitive electrochemical sensing system for detecting bromate from disinfection process in desalination plant. <i>Desalination</i> , 2017, 423, 135-140.	4.0	5
833	Zero Liquid Discharge in Desalination. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 221-241.	0.4	2
834	Desalination by Reverse Osmosis. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 155-199.	0.4	2
835	How Water's Properties Are Encoded in Its Molecular Structure and Energies. <i>Chemical Reviews</i> , 2017, 117, 12385-12414.	23.0	284
836	Cost-based feasibility study and sensitivity analysis of a new draw solution assisted reverse osmosis (DSARO) process for seawater desalination. <i>Desalination</i> , 2017, 422, 182-193.	4.0	30
837	Enhanced organics removal and partial desalination of high strength industrial wastewater with a multi-stage microbial desalination cell. <i>Desalination</i> , 2017, 423, 104-110.	4.0	38
838	Laminated PTFE membranes to enhance the performance in direct contact membrane distillation for high salinity solution. <i>Desalination</i> , 2017, 424, 140-148.	4.0	35
839	Improved recovery of bioenergy and osmotic water in an osmotic microbial fuel cell using micro-diffuser assisted marine aerobic biofilm on cathode. <i>Biochemical Engineering Journal</i> , 2017, 128, 235-242.	1.8	44
840	Highly permeable and antifouling reverse osmosis membranes with acidified graphitic carbon nitride nanosheets as nanofillers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19875-19883.	5.2	103
841	Activation promoted ionic liquid modification of reverse osmosis membrane towards enhanced permeability for desalination. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 25-33.	2.7	24
842	A Prussian blue anode for high performance electrochemical deionization promoted by the faradaic mechanism. <i>Nanoscale</i> , 2017, 9, 13305-13312.	2.8	165
843	Microbial Desalination Cells with Efficient Platinum-Free Cathode Catalysts. <i>ChemElectroChem</i> , 2017, 4, 3322-3330.	1.7	40
844	High fouling-resistance of polyamide desalination-membrane modified with PEI/PAH polyelectrolyte multilayers. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4594-4604.	3.3	3
845	A Novel Fabrication Approach for Multifunctional Graphene-based Thin Film Nano-composite Membranes with Enhanced Desalination and Antibacterial Characteristics. <i>Scientific Reports</i> , 2017, 7, 7490.	1.6	22

#	ARTICLE	IF	CITATIONS
846	Hydrophilic and Compressible Aerogel: A Novel Draw Agent in Forward Osmosis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33948-33955.	4.0	30
847	Fabrication of N-doped & SnO ₂ -incorporated activated carbon to enhance desalination and bio-decontamination performance for capacitive deionization. <i>Journal of Alloys and Compounds</i> , 2017, 729, 764-775.	2.8	43
848	Implementation of material flow cost accounting for efficiency improvement in wastewater treatment unit of Tabriz oil refining company. <i>Journal of Cleaner Production</i> , 2017, 165, 530-536.	4.6	18
849	Methodical design and operation of membrane distillation plants for desalination. <i>Chemical Engineering Research and Design</i> , 2017, 125, 265-281.	2.7	19
850	Influential effects of nanoparticles, solvent and surfactant treatments on thin film nanocomposite (TFN) membranes for seawater desalination. <i>Desalination</i> , 2017, 420, 216-225.	4.0	35
851	A systematic optimization of Internally Staged Design (ISD) for a full-scale reverse osmosis process. <i>Journal of Membrane Science</i> , 2017, 540, 285-296.	4.1	31
852	Photo-induced grafting of poly(ethylene glycol) onto polyamide thin film composite membranes. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45454.	1.3	11
853	Evaluation of carbon nanotube-polyamide thin-film nanocomposite reverse osmosis membrane: Surface properties, performance characteristics and fouling behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 327-334.	2.9	50
854	Membrane distillation research & implementation: Lessons from the past five decades. <i>Separation and Purification Technology</i> , 2017, 189, 108-127.	3.9	174
855	Effects of operating conditions on biofouling in crossflow ultrafiltration membrane processes. <i>Separation and Purification Technology</i> , 2017, 189, 138-144.	3.9	16
856	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. <i>Advanced Functional Materials</i> , 2017, 27, 1701738.	7.8	47
857	Modification of thin-film polyamide membrane with multi-walled carbon nanotubes by interfacial polymerization. <i>Applied Water Science</i> , 2017, 7, 4341-4350.	2.8	33
858	Effect of feed water characteristics on nanofiltration separating performance for brackish water treatment in the Huanghuai region of China. <i>Journal of Water Process Engineering</i> , 2017, 19, 147-155.	2.6	14
860	Water and salt permeability of monolayer graph-n-yne: Molecular dynamics simulations. <i>Carbon</i> , 2017, 123, 688-694.	5.4	12
861	Combinatorial approach for removal of boron from water by membrane surface modification and boron complex formation. <i>Journal of Water Process Engineering</i> , 2017, 19, 139-146.	2.6	5
862	Scalable Chitosan-Graphene Oxide Membranes: The Effect of GO Size on Properties and Cross-Flow Filtration Performance. <i>ACS Omega</i> , 2017, 2, 8751-8759.	1.6	45
863	Benchmarking the scientific research on wastewater-energy nexus by using bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27613-27630.	2.7	18
864	A novel reverse osmosis membrane by ferrous sulfate assisted controlled oxidation of polyamide layer. <i>Materials Research Express</i> , 2017, 4, 115303.	0.8	7

#	ARTICLE	IF	CITATIONS
865	A graphene-like membrane with an ultrahigh water flux for desalination. <i>Nanoscale</i> , 2017, 9, 18951-18958.	2.8	46
866	Management and dewatering of brines extracted from geologic carbon storage sites. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 194-214.	2.3	22
867	Pressure-driven water flow through hydrophilic alumina nanomembranes. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	15
868	An optimization model for the allocation of water resources. <i>Journal of Cleaner Production</i> , 2017, 164, 994-1006.	4.6	77
869	High permeance nanofiltration thin film composites with a polyelectrolyte complex top layer containing graphene oxide nanosheets. <i>Journal of Membrane Science</i> , 2017, 540, 391-400.	4.1	31
870	Deep purification of seawater using a novel zeolite 3A incorporated polyether-block-amide composite membrane. <i>Separation and Purification Technology</i> , 2017, 188, 90-97.	3.9	16
872	Substrate matters: The influences of substrate layers on the performances of thin-film composite reverse osmosis membranes. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1676-1684.	1.7	38
873	Fundamental transport mechanisms, fabrication and potential applications of nanoporous atomically thin membranes. <i>Nature Nanotechnology</i> , 2017, 12, 509-522.	15.6	596
874	Influence of polyamide membrane surface chemistry on gypsum scaling behavior. <i>Journal of Membrane Science</i> , 2017, 525, 249-256.	4.1	73
875	Parameters for Seawater Reverse Osmosis Product Water: A Review. <i>Exposure and Health</i> , 2017, 9, 157-168.	2.8	7
876	Assessment of desalination technologies for treatment of a highly saline brine from a potential CO ₂ storage site. <i>Desalination</i> , 2017, 404, 87-101.	4.0	64
877	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. <i>Applied Energy</i> , 2017, 187, 910-928.	5.1	35
878	Energy and economic analysis of a hollow fiber membrane-based desalination system driven by solar energy. <i>Desalination</i> , 2017, 404, 200-214.	4.0	55
879	Advances in draw solutes for forward osmosis: Hybrid organic-inorganic nanoparticles and conventional solutes. <i>Chemical Engineering Journal</i> , 2017, 309, 738-752.	6.6	87
880	Aquifer Treatment of Sea Water to Remove Natural Organic Matter Before Desalination. <i>Ground Water</i> , 2017, 55, 316-326.	0.7	8
881	Mitigation of saltwater intrusion by "integrated fresh-keeper"™ wells combined with high recovery reverse osmosis. <i>Science of the Total Environment</i> , 2017, 574, 796-805.	3.9	6
882	Synergetic effect of graphene oxide nanosheets embedded in the active and support layers on the performance of thin-film composite membranes. <i>Journal of Membrane Science</i> , 2017, 525, 99-106.	4.1	58
883	Characterization of trihalomethane, haloacetic acid, and haloacetonitrile precursors in a seawater reverse osmosis system. <i>Science of the Total Environment</i> , 2017, 576, 391-397.	3.9	26

#	ARTICLE	IF	CITATIONS
884	Investigating the Potential of Single-Walled Aluminosilicate Nanotubes in Water Desalination. <i>ChemPhysChem</i> , 2017, 18, 179-183.	1.0	26
885	A predictive model for spiral wound reverse osmosis membrane modules: The effect of winding geometry and accurate geometric details. <i>Computers and Chemical Engineering</i> , 2017, 96, 248-265.	2.0	28
886	Performance evaluation of reverse osmosis (RO) pre-treatment technologies for in-land brackish water treatment. <i>Desalination</i> , 2017, 406, 44-50.	4.0	62
887	Novel reverse osmosis membranes composed of modified PVA/Gum Arabic conjugates: Biofouling mitigation and chlorine resistance enhancement. <i>Carbohydrate Polymers</i> , 2017, 155, 28-39.	5.1	57
888	The use of desalination concentrate as a potential substrate for microalgae cultivation in Brazil. <i>Algal Research</i> , 2017, 24, 505-508.	2.4	24
889	Oberflächenmodifizierung von Wasseraufbereitungsmembranen. <i>Angewandte Chemie</i> , 2017, 129, 4734-4788.	1.6	58
890	Surface Modification of Water Purification Membranes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4662-4711.	7.2	564
891	Enhanced both water flux and salt rejection of reverse osmosis membrane through combining isophthaloyl dichloride with biphenyl tetraacyl chloride as organic phase monomer for seawater desalination. <i>Journal of Membrane Science</i> , 2017, 522, 175-182.	4.1	83
892	Improved stability of ethyl silicate interlayer-free membranes by the rapid thermal processing (RTP) for desalination. <i>Desalination</i> , 2017, 402, 25-32.	4.0	23
893	A framework for planning sustainable seawater desalination water supply. <i>Science of the Total Environment</i> , 2017, 575, 826-835.	3.9	32
894	Can batch or semi-batch processes save energy in reverse-osmosis desalination?. <i>Desalination</i> , 2017, 402, 109-122.	4.0	105
895	Relative contributions of organic and inorganic fouling during nanofiltration of inland brackish surface water. <i>Journal of Membrane Science</i> , 2017, 523, 68-76.	4.1	49
896	Seawater reverse osmosis desalination plant at community-scale: Role of an innovative pretreatment on process performances and intensification. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 113, 42-55.	1.8	23
897	Pre-ozonation for high recovery of nanofiltration (NF) membrane system: Membrane fouling reduction and trace organic compound attenuation. <i>Journal of Membrane Science</i> , 2017, 523, 255-263.	4.1	70
898	Aqueous silica removal from agricultural drainage water and reverse osmosis concentrate by brackish water diatoms in semi-batch photobioreactors. <i>Journal of Applied Phycology</i> , 2017, 29, 223-233.	1.5	11
899	A green strategy to immobilize silver nanoparticles onto reverse osmosis membrane for enhanced anti-biofouling property. <i>Desalination</i> , 2017, 401, 32-41.	4.0	123
900	Critical aspects of RO desalination: A combination strategy. <i>Desalination</i> , 2017, 401, 68-87.	4.0	40
901	Evaluation of thin film nanocomposite reverse osmosis membranes for long-term brackish water desalination performance. <i>Desalination</i> , 2017, 404, 304-312.	4.0	39

#	ARTICLE	IF	CITATIONS
902	Mining valuable minerals from seawater: a critical review. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 37-53.	1.2	154
903	Simultaneous bio-autotrophic reduction of perchlorate and nitrate in a sulfur packed bed reactor: Kinetics and bacterial community structure. <i>Water Research</i> , 2017, 108, 280-292.	5.3	73
904	Effect of boron rejection and recovery rate on a single-pass design of SWRO using hybrid membrane inter-stage design (HID) concept. <i>Desalination</i> , 2017, 404, 215-223.	4.0	19
905	Kinetics and energetics trade-off in reverse osmosis desalination with different configurations. <i>Desalination</i> , 2017, 401, 42-52.	4.0	61
906	Calcium carbonate scaling by reverse draw solute diffusion in a forward osmosis membrane for shale gas wastewater treatment. <i>Journal of Membrane Science</i> , 2017, 522, 257-266.	4.1	34
907	Preparation of graphene oxide-cellulose acetate nanocomposite membrane for high-flux desalination. <i>Journal of Materials Science</i> , 2017, 52, 13296-13306.	1.7	34
908	Marmara Seawater Desalination by Membrane Distillation: Direct Consumption Assessment of Produced Drinking Water. , 2017, , .		1
909	8. Polymers in separation processes. , 2017, , 235-276.		4
910	4.3 Membrane Biofouling: Biofouling Assessment and Reduction Strategies in Seawater Reverse Osmosis Desalination. , 2017, , 48-71.		5
911	Reverse Osmosis System Design and Pretreatment. , 2017, , 249-276.		0
912	Membranes with Surface-Enhanced Antifouling Properties for Water Purification. <i>Membranes</i> , 2017, 7, 13.	1.4	146
913	Foulant Analysis of Three RO Membranes Used in Treating Simulated Brackish Water of the Iraqi Marshes. <i>Membranes</i> , 2017, 7, 23.	1.4	6
914	Integral Management of Irrigation Water in Intensive Horticultural Systems of Almeri. <i>Sustainability</i> , 2017, 9, 2271.	1.6	59
915	A Thermodynamical Approach for Evaluating Energy Consumption of the Forward Osmosis Process Using Various Draw Solutes. <i>Water (Switzerland)</i> , 2017, 9, 189.	1.2	7
916	The Impact of Demographic Factors, Beliefs, and Social Influences on Residential Water Consumption and Implications for Non-Price Policies in Urban India. <i>Water (Switzerland)</i> , 2017, 9, 844.	1.2	39
917	Advanced Membrane-Based Desalination Systems for Water and Minerals Extracted From the Sea. , 2017, , 237-259.		0
918	Integration of PRO into Desalination Processes. , 2017, , 129-151.		4
919	Silica Membrane Application for Desalination Process. , 2017, , 181-216.		3

#	ARTICLE	IF	CITATIONS
920	Filtration of drinking water. , 2017, , 245-274.		0
921	Tracing Technological Development Trajectories: A Genetic Knowledge Persistence-Based Main Path Approach. PLoS ONE, 2017, 12, e0170895.	1.1	47
922	Renewable Energy Driven Small-Scale Sea Water Reverse Osmosis Desalination Systems: A Survey. Journal of Fundamentals of Renewable Energy and Applications, 2017, 07, .	0.2	4
923	Polymers in separation processes. ChemistrySelect, 2017, 2, .	0.7	5
924	Low Energy Desalination via DCMD: The Role of Superhydrophobicity and Optimal Flow Conditions. , 2017, , .		0
925	Numerical investigation on the effect of labyrinth seal configuration on leakage. MATEC Web of Conferences, 2017, 128, 02013.	0.1	2
926	4.14 End-of-Life Membranes: Challenges and Opportunities. , 2017, , 293-310.		5
927	EMPLOYING FORWARD OSMOSIS TECHNOLOGY THROUGH HYBRID SYSTEM CONFIGURATIONS FOR THE PRODUCTION OF POTABLE/PURE WATER: A REVIEW. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	4
928	Technical Approaches for Desalination and Water Supplies for Drought. , 2017, , 1-22.		0
929	NANOFILTRATION AND REVERSE OSMOSIS APPLIED TO GOLD MINING EFFLUENT TREATMENT AND REUSE. Brazilian Journal of Chemical Engineering, 2017, 34, 93-107.	0.7	31
930	Customizing the surface charge of thin-film composite membranes by surface plasma thin film polymerization. Journal of Membrane Science, 2017, 537, 1-10.	4.1	29
931	Application of Multilayer Thin Film Technology in Desalination Membrane. , 0, , .		1
932	Facilitated Water Transport through Graphene Oxide Membranes Functionalized with Aquaporinâ€Mimicking Peptides. Advanced Materials, 2018, 30, e1705944.	11.1	46
933	Novel high boron removal polyamide reverse osmosis membranes. Journal of Membrane Science, 2018, 554, 244-252.	4.1	63
934	Dipeptide Crystals as Reverse Osmosis Membranes for Water Desalination: Atomistic Simulation. Journal of Physical Chemistry C, 2018, 122, 6026-6032.	1.5	13
935	Highly hydrophilic and antifouling nanofiltration membrane incorporated with water-dispersible composite activated carbon/chitosan nanoparticles. Chemical Engineering Research and Design, 2018, 132, 812-821.	2.7	62
936	A high performance electrochemical deionization method to desalinate brackish water with an FePO ₄ /RGO nanocomposite. Journal of Materials Chemistry A, 2018, 6, 8901-8908.	5.2	64
937	Dispersion corrected interaction of polar and nonpolar fluids confined within carbon nanotubes: Density functional theoretical analysis using Grimme's D3 scheme. International Journal of Quantum Chemistry, 2018, 118, e25578.	1.0	4

#	ARTICLE	IF	CITATIONS
938	Radionuclide geochemistry of groundwater in the Eastern Desert, Egypt. <i>Applied Geochemistry</i> , 2018, 93, 69-80.	1.4	17
939	Design and results of a first generation pilot plant for supercritical water desalination (SCWD). <i>Desalination</i> , 2018, 439, 80-92.	4.0	28
940	Facile and Scalable Flow-Induced Deposition of Organosilica on Porous Polymer Supports for Reverse Osmosis Desalination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14070-14078.	4.0	17
941	Chitosan/graphene oxide mixed matrix membrane with enhanced water permeability for high-salinity water desalination by pervaporation. <i>Desalination</i> , 2018, 438, 83-96.	4.0	129
942	Molecular dynamics simulations of freezing-point depression of TIP4P/2005 water in solution with NaCl. <i>Journal of Molecular Liquids</i> , 2018, 261, 513-519.	2.3	43
943	Advances in forward osmosis membranes: Altering the sub-layer structure via recent fabrication and chemical modification approaches. <i>Desalination</i> , 2018, 436, 176-201.	4.0	115
944	Effect of Hydrogen-Bonding Interaction on the Arrangement and Dynamics of Water Confined in a Polyamide Membrane: A Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4719-4728.	1.2	49
945	A continuous concentration gradient flow electrical energy storage system based on reverse osmosis and pressure retarded osmosis. <i>Energy</i> , 2018, 152, 896-905.	4.5	28
946	Minimum energy requirements for desalination of brackish groundwater in the United States with comparison to international datasets. <i>Water Research</i> , 2018, 141, 387-404.	5.3	31
947	Effect of sodium hypochlorite exposure on polysulfone recycled UF membranes and their surface characterization. <i>Polymer Degradation and Stability</i> , 2018, 150, 46-56.	2.7	35
948	Thin-film composite (TFC) membrane modified by hybrid ZnO-graphene nanoparticles (ZnO-Gr NPs) for water desalination. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1109-1117.	3.3	30
949	Experimental investigation of the thermal power pump cycle – Proof of concept. <i>Applied Thermal Engineering</i> , 2018, 134, 182-193.	3.0	9
950	Improved process design and optimization of 200 kt/a ethylene glycol production using coal-based syngas. <i>Chemical Engineering Research and Design</i> , 2018, 132, 551-563.	2.7	40
951	Fouling characterization of RO membranes after 11 years of operation in a brackish water desalination plant. <i>Desalination</i> , 2018, 430, 180-185.	4.0	40
952	Inorganic fouling mitigation by salinity cycling in batch reverse osmosis. <i>Water Research</i> , 2018, 137, 384-394.	5.3	73
953	High-performance reverse osmosis membranes fabricated on highly porous microstructured supports. <i>Desalination</i> , 2018, 436, 48-55.	4.0	40
954	The Effect of Voltage Charging on the Transport Properties of Gold Nanotube Membranes. <i>Small</i> , 2018, 14, 1703290.	5.2	8
955	Membrane Surface Modification Using Thiol-Containing Zwitterionic Polymers via Bioadhesive Polydopamine. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2336-2345.	1.8	49

#	ARTICLE	IF	CITATIONS
956	Quantitative sustainability analysis of water desalination – A didactic example for reverse osmosis. <i>Desalination</i> , 2018, 431, 157-170.	4.0	24
958	Water permeance, permeability and desalination properties of the sulfonic acid functionalized composite pervaporation membranes. <i>Desalination</i> , 2018, 433, 132-140.	4.0	70
959	Ultrahigh performance of novel energy-efficient capacitive deionization electrodes based on 3D nanotubular composites. <i>New Journal of Chemistry</i> , 2018, 42, 3560-3567.	1.4	31
960	Unlocking High-Salinity Desalination with Cascading Osmotically Mediated Reverse Osmosis: Energy and Operating Pressure Analysis. <i>Environmental Science & Technology</i> , 2018, 52, 2242-2250.	4.6	121
961	Triple antifouling strategies for reverse osmosis membrane biofouling control. <i>Journal of Membrane Science</i> , 2018, 549, 495-506.	4.1	61
962	The effect of preparation parameters on performance of polyvinyl alcohol thin-film composite membrane: Experimental study, modeling, and optimization. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1150-1160.	1.6	9
963	Remediation of Industrial Effluents. <i>Energy, Environment, and Sustainability</i> , 2018, , 171-187.	0.6	7
964	Water Remediation. <i>Energy, Environment, and Sustainability</i> , 2018, , .	0.6	11
965	Recovery of reactive MgO from reject brine via the addition of NaOH. <i>Desalination</i> , 2018, 429, 88-95.	4.0	79
966	Performance analysis of plate-and-frame forward osmosis membrane elements and implications for scale-up design. <i>Journal of Membrane Science</i> , 2018, 550, 219-229.	4.1	13
967	Comparison of fouling behaviors of hydrophobic microporous membranes in pressure- and temperature-driven separation processes. <i>Desalination</i> , 2018, 428, 264-271.	4.0	6
968	A review of fouling indices and monitoring techniques for reverse osmosis. <i>Desalination</i> , 2018, 434, 169-188.	4.0	98
969	The role of nanofiltration membrane surface charge on the scale-prone ions concentration polarization for low or medium saline water softening. <i>Desalination</i> , 2018, 432, 81-88.	4.0	24
970	Cost assessment and retro-techno-economic analysis of desalination technologies in onshore produced water treatment. <i>Desalination</i> , 2018, 430, 107-119.	4.0	43
971	Amphiphobic surface modification of electrospun nanofibrous membranes for anti-wetting performance in membrane distillation. <i>Desalination</i> , 2018, 432, 23-31.	4.0	96
972	Graphene-based nanofiltration membranes for improving salt rejection, water flux and antifouling – A review. <i>Desalination</i> , 2018, 429, 119-133.	4.0	239
973	Removal of Pb(II) from water using a bio-composite adsorbent-A systematic approach of optimizing synthesis and process parameters by response surface methodology. <i>Journal of Environmental Management</i> , 2018, 209, 112-125.	3.8	9
974	Validation of recycled membranes for treating brackish water at pilot scale. <i>Desalination</i> , 2018, 433, 199-208.	4.0	59

#	ARTICLE	IF	CITATIONS
975	Research on "high-pH precipitation treatment"™ for RO concentrate minimization and salt recovery in a municipal groundwater desalination facility. <i>Desalination</i> , 2018, 439, 168-178.	4.0	25
976	Evolution of Graphene Oxide and Graphene: From Imagination to Industrialization. <i>ChemNanoMat</i> , 2018, 4, 598-620.	1.5	80
977	Cross-linking modification with diamine monomers to enhance desalination performance of graphene oxide membranes. <i>Carbon</i> , 2018, 136, 28-37.	5.4	88
978	Novel technological solutions for eco-protective water supply by economical and sustainable seawater desalination. <i>Chemical Engineering Research and Design</i> , 2018, 136, 177-198.	2.7	10
979	Crevice Corrosion of Several Supper Stainless Steels in the Simulated LT-MED Environment. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 1137-1147.	1.5	3
980	Degradation of shale gas produced water by magnetic porous MFe ₂ O ₄ (M = Cu, Ni, Co and Zn) heterogeneous catalyzed ozone. <i>Chemical Engineering Journal</i> , 2018, 345, 98-106.	6.6	53
981	Pervaporative desalination of seawater using a polyvinylidene fluoride based membrane. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 1674-1681.	1.0	6
982	Feasibility study of a forward osmosis/crystallization/reverse osmosis hybrid process with high-temperature operation: Modeling, experiments, and energy consumption. <i>Journal of Membrane Science</i> , 2018, 555, 206-219.	4.1	30
983	Polymersomes-based high-performance reverse osmosis membrane for desalination. <i>Journal of Membrane Science</i> , 2018, 555, 177-184.	4.1	53
984	Simulation and optimisation of spiral-wound reverse osmosis process for the removal of N-nitrosamine from wastewater. <i>Chemical Engineering Research and Design</i> , 2018, 133, 168-182.	2.7	13
985	A novel pathway for high performance RO membrane: Preparing active layer with decreased thickness and enhanced compactness by incorporating tannic acid into the support. <i>Journal of Membrane Science</i> , 2018, 555, 157-168.	4.1	88
986	Application of forward osmosis membrane in nanofiltration mode to treat reverse osmosis concentrate from wastewater reclamation plants. <i>Water Science and Technology</i> , 2018, 77, 1990-1997.	1.2	10
987	Membrane distillation at the water-energy nexus: limits, opportunities, and challenges. <i>Energy and Environmental Science</i> , 2018, 11, 1177-1196.	15.6	740
988	Analysis of specific energy consumption in reverse osmosis desalination processes. <i>Desalination</i> , 2018, 431, 15-21.	4.0	131
989	Impact of granular filtration on ultrafiltration membrane performance as pre-treatment to seawater desalination in presence of algal blooms. <i>Journal of Water Reuse and Desalination</i> , 2018, 8, 262-277.	1.2	4
990	Removal of fouling species from brackish water reverse osmosis reject stream. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 804-813.	1.2	13
991	Integrated approach in eco-design strategy for small RO desalination plants powered by photovoltaic energy. <i>Desalination</i> , 2018, 435, 246-258.	4.0	43
992	Effects of salinity, C/S ratio, S/N ratio on the BESl process, and treatment of nanofiltration concentrate. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5129-5139.	2.7	8

#	ARTICLE	IF	CITATIONS
993	Membrane technology in renewable-energy-driven desalination. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1-21.	8.2	287
994	A novel photobiological process for reverse osmosis concentrate treatment using brackish water diatoms. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 594-602.	1.0	9
995	Separation of divalent and monovalent ions using flow-electrode capacitive deionization with nanofiltration membranes. <i>Desalination</i> , 2018, 425, 123-129.	4.0	65
996	Membrane fouling in desalination and its mitigation strategies. <i>Desalination</i> , 2018, 425, 130-155.	4.0	339
997	Optimal design of spacers in reverse osmosis. <i>Separation and Purification Technology</i> , 2018, 192, 441-456.	3.9	103
998	Hydrophilic polyvinyl alcohol coating on hydrophobic electrospun nanofiber membrane for high performance thin film composite forward osmosis membrane. <i>Desalination</i> , 2018, 426, 50-59.	4.0	162
999	Energy use for membrane seawater desalination – current status and trends. <i>Desalination</i> , 2018, 431, 2-14.	4.0	346
1000	The operation of reverse osmosis system with CO ₂ as a scale inhibitor: A study on operational behavior and membrane morphology. <i>Desalination</i> , 2018, 426, 11-20.	4.0	27
1001	Analysis of an osmotically-enhanced dewatering process for the treatment of highly saline (waste)waters. <i>Journal of Membrane Science</i> , 2018, 548, 685-693.	4.1	39
1002	Optimal Reverse Osmosis Network Configuration for the Rejection of Dimethylphenol from Wastewater. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 04017080.	0.7	2
1003	Multiwalled carbon nanotube membranes for water purification. <i>Separation and Purification Technology</i> , 2018, 193, 378-385.	3.9	56
1004	Cellulose membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2018, 545, 329-336.	4.1	91
1005	LCA of Drinking Water Supply. , 2018, , 835-860.		9
1006	The comparative study for scale inhibition on surface of RO membranes in wastewater reclamation: CO ₂ purging versus three different antiscalants. <i>Journal of Membrane Science</i> , 2018, 546, 61-69.	4.1	32
1007	Nanostructured photocatalysis in the visible spectrum for the decontamination of air and water. <i>International Materials Reviews</i> , 2018, 63, 257-282.	9.4	36
1008	Modification of polyamide membranes by hydrophobic molecular plugs for improved boron rejection. <i>Journal of Membrane Science</i> , 2018, 546, 165-172.	4.1	59
1009	Removal of copper(II) ions from Aqueous Media by Chemically Modified MCM-41 with 3-(trimethoxysilyl)propyl)ethylenediamine and Its 4-hydroxysalicylidene Schiff-base. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 746-760.	1.3	25
1010	Salt concentration dependence of ionic conductivity in ion exchange membranes. <i>Journal of Membrane Science</i> , 2018, 547, 123-133.	4.1	119

#	ARTICLE	IF	CITATIONS
1011	Trihalomethanes in desalinated water: Human exposure and risk analysis. Human and Ecological Risk Assessment (HERA), 2018, 24, 26-48.	1.7	12
1012	Integrating desalination with concentrating solar thermal power: A Namibian case study. Renewable Energy, 2018, 115, 423-432.	4.3	31
1013	Optimization of resin wafer electrodeionization for brackish water desalination. Separation and Purification Technology, 2018, 194, 346-354.	3.9	35
1014	Investigation of patterned and non-patterned poly(2,6-dimethyl 1,4-phenylene) oxide based anion exchange membranes for enhanced desalination and power generation in a microbial desalination cell. Solid State Ionics, 2018, 314, 141-148.	1.3	30
1015	Desalination for agriculture: water quality and plant chemistry, technologies and challenges. Water Science and Technology: Water Supply, 2018, 18, 1505-1517.	1.0	34
1016	Recent development of novel membranes for desalination. Desalination, 2018, 434, 37-59.	4.0	183
1017	Comparative studies of different membrane distillation configurations and membranes for potential use on board cruise vessels. Desalination, 2018, 429, 44-51.	4.0	40
1018	Investigating the development and reproducibility of heterogeneous gypsum scaling on reverse osmosis membranes using real-time membrane surface imaging. Desalination, 2018, 428, 161-171.	4.0	38
1019	A novel autonomous PV powered desalination system based on a DC microgrid concept incorporating short-term energy storage. Solar Energy, 2018, 159, 947-961.	2.9	72
1020	Fundamentals of Microbial Desalination Cell. , 2018, , 353-371.		2
1021	Polyethersulfone membranes prepared with Rhodiasolv®Polarclean as water soluble green solvent. Journal of Membrane Science, 2018, 549, 192-204.	4.1	94
1022	Can a hybrid RO-Freeze process lead to sustainable water supplies?. Desalination, 2018, 431, 140-150.	4.0	9
1023	Combination of lauroyl arginate ethyl and nisin for biofouling control in reverse osmosis processes. Desalination, 2018, 428, 12-20.	4.0	9
1024	CULTIVATION OF <i>Chlorella vulgaris</i> IN MEDIUM SUPPLEMENTED WITH DESALINATION CONCENTRATE GROWN IN A PILOT-SCALE OPEN RACEWAY. Brazilian Journal of Chemical Engineering, 2018, 35, 1183-1192.	0.7	18
1025	Target stoichiometry and growth temperature impact on properties of BiVO ₄ (010) epitaxial thin films. CrystEngComm, 2018, 20, 6950-6956.	1.3	16
1026	Ultrathin porous Bi ₅ O ₇ X (X = Cl, Br, I) nanotubes for effective solar desalination. Journal of Materials Chemistry A, 2018, 6, 20037-20043.	5.2	24
1027	Biguanidine functional chitooligosaccharide modified reverse osmosis membrane with improved anti-biofouling property. RSC Advances, 2018, 8, 41938-41949.	1.7	5
1028	Biomimetic Membrane Simulation for Water Desalination. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
1029	Mobilising the oceans to quench our thirst. , 2018, , .		4
1030	An Introduction to Blockchain, Cryptocurrency and Initial Coin Offerings. SSRN Electronic Journal, 2018, , .	0.4	1
1031	Comparative Assessment of the Energy Consumed by Various Solar-powered Water Desalination Systems. , 2018, , .		0
1033	Emerging Membrane Technologies for Water and Energy Sustainability: Future Prospects, Constrains and Challenges. Energies, 2018, 11, 2997.	1.6	76
1034	Membrane desalination technologies in water treatment: A review. Water Practice and Technology, 2018, 13, 738-752.	1.0	47
1035	Critical Review of Fluid Flow Physics at Micro- to Nano-scale Porous Media Applications in the Energy Sector. Advances in Materials Science and Engineering, 2018, 2018, 1-31.	1.0	33
1036	Molecular Dynamics Simulation Study of Polyamide Membrane Structures and RO/FO Water Permeation Properties. Membranes, 2018, 8, 127.	1.4	17
1037	Recent Advance on Draw Solute Development in Forward Osmosis. Processes, 2018, 6, 165.	1.3	62
1038	Current development and future prospect review of freeze desalination. Desalination, 2018, 447, 167-181.	4.0	92
1039	Removal and recovery of phosphate anion as struvite from wastewater. Clean Technologies and Environmental Policy, 2018, 20, 2375-2380.	2.1	12
1040	Hydrographic parameters and distribution of dissolved Cu, Ni, Zn and nutrients near Jeddah desalination plant. Open Chemistry, 2018, 16, 246-257.	1.0	9
1041	Development of desalination technology using reverse osmosis membrane for the provision of clean water in DKI Jakarta. AIP Conference Proceedings, 2018, , .	0.3	1
1042	Effect of surface area of carbon nanotubes on membrane performance for effective water desalination. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	8
1043	Graphene oxide membranes for enhancing water purification in terrestrial and space-born applications: State of the art. Desalination, 2018, 448, 113-132.	4.0	39
1044	Silica P123 Membranes for Desalination of Wetland Saline Water in South Kalimantan. IOP Conference Series: Earth and Environmental Science, 0, 175, 012007.	0.2	15
1045	The Electrocatalytic Activity of Polyaniline/TiO2 Nanocomposite for Congo Red Degradation in Aqueous Solutions. International Journal of Electrochemical Science, 2018, 13, 5085-5095.	0.5	8
1046	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle Assisted Low-Temperature Multi Effect Desalination Coupled With Mechanical Vapor Compression. , 2018, , .		1
1047	A hybrid renewable energy system as a potential energy source for water desalination using reverse osmosis: A review. Renewable and Sustainable Energy Reviews, 2018, 97, 456-477.	8.2	145

#	ARTICLE	IF	CITATIONS
1048	Seawater desalination concentrate for cultivation of <i>Dunaliella salina</i> with floating photobioreactor to produce β -carotene. <i>Algal Research</i> , 2018, 35, 319-324.	2.4	39
1049	Influence of support-layer deformation on the intrinsic resistance of thin film composite membranes. <i>Journal of Membrane Science</i> , 2018, 567, 49-57.	4.1	29
1050	Piperazine-Based Functional Materials as Draw Solutes for Desalination via Forward Osmosis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14170-14177.	3.2	18
1051	Evaluation of various membrane filtration modules for the treatment of seawater. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	34
1052	Current and Emerging Techniques for High-Pressure Membrane Integrity Testing. <i>Membranes</i> , 2018, 8, 60.	1.4	25
1053	Assessment of the impact of climate change on coastal aquifers in Oman. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	20
1054	Effect of fixed charge group concentration on salt permeability and diffusion coefficients in ion exchange membranes. <i>Journal of Membrane Science</i> , 2018, 566, 307-316.	4.1	34
1055	Preparation of Hybrid Organosilica Reverse Osmosis Membranes by Interfacial Polymerization of Bis[(trialkoxysilyl)propyl]amine. <i>Chemistry Letters</i> , 2018, 47, 1210-1212.	0.7	8
1056	Polyamide thin-film composite membrane fabricated through interfacial polymerization coupled with surface amidation for improved reverse osmosis performance. <i>Journal of Membrane Science</i> , 2018, 566, 87-95.	4.1	36
1057	First large-scale ecological impact study of desalination outfall reveals trade-offs in effects of hypersalinity and hydrodynamics. <i>Water Research</i> , 2018, 145, 757-768.	5.3	32
1058	Cation-Exchange Membrane with Low Frictional Coefficient and High Limiting Current Density for Energy-Efficient Water Desalination. <i>ACS Omega</i> , 2018, 3, 10331-10340.	1.6	21
1059	Relating solute properties of contaminants of emerging concern and their rejection by forward osmosis membrane. <i>Science of the Total Environment</i> , 2018, 639, 673-678.	3.9	39
1060	Selectrodialysis with bipolar membrane for the reclamation of concentrated brine from RO plant. <i>Desalination</i> , 2018, 442, 8-15.	4.0	77
1061	“High-pH softening pretreatment” for boron removal in inland desalination systems. <i>Separation and Purification Technology</i> , 2018, 205, 308-316.	3.9	12
1062	Thermodynamic model for a reversible desalination cycle using weak polyelectrolyte hydrogels. <i>Desalination</i> , 2018, 442, 32-43.	4.0	19
1063	Water vapor condensation and collection by super-hydrophilic and super-hydrophobic VACNTs. <i>Diamond and Related Materials</i> , 2018, 87, 43-49.	1.8	18
1064	Reverse osmosis purification: A case study of the Niger Delta region. <i>Water Science</i> , 2018, 32, 129-137.	0.5	10
1065	Roof-integrated dew water harvesting in Combarbalá, Chile. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2018, 67, 357-374.	0.6	16

#	ARTICLE	IF	CITATIONS
1066	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2018, 206, 14-25.	3.9	82
1067	Exploring the Reusability of Synthetically Contaminated Wastewater Containing Crystal Violet Dye using <i>Tectona grandis</i> Sawdust as a Very Low-Cost Adsorbent. <i>Scientific Reports</i> , 2018, 8, 8314.	1.6	140
1068	Experimental investigation on the performance of a small reverse osmosis unit. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	0.8	6
1069	A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8093-8107.	3.2	275
1070	Membrane-based pretreatment to mitigate variations in desalination plants. <i>Water Science and Technology</i> , 2018, 77, 2858-2866.	1.2	4
1071	Environmental Life Cycle Analysis of Water Desalination Processes. , 2018, , 527-559.		19
1072	High-Pressure Reverse Osmosis for Energy-Efficient Hypersaline Brine Desalination: Current Status, Design Considerations, and Research Needs. <i>Environmental Science and Technology Letters</i> , 2018, 5, 467-475.	3.9	213
1073	Photocatalytic inactivation of <i>Vibrio fischeri</i> using Fe ₂ O ₃ -TiO ₂ -based nanoparticles. <i>Environmental Research</i> , 2018, 166, 497-506.	3.7	30
1074	Activated Biochar as an Effective Sorbent for Organic and Inorganic Contaminants in Water. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	60
1075	Impacts of Seawater Desalination on Coastal Environments. , 2018, , 437-463.		22
1076	Impact of Algal Blooms and Their Toxins on Reverse Osmosis Desalination Plant Operations. , 2018, , 489-504.		0
1077	Real Time Operational Optimization of a Seawater Desalination System Based on Rolling Prediction of Hourly Freshwater Demand. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10528-10538.	1.8	4
1078	Membrane Desalination Process Selection, Design, and Implementation. , 2018, , 3-24.		1
1079	Mechanism of humic acid fouling in a photocatalytic membrane system. <i>Journal of Membrane Science</i> , 2018, 563, 531-540.	4.1	46
1080	Preparation of novel carboxylated thin-film composite polyamide-polyester nanofiltration membranes with enhanced antifouling property and water flux. <i>Reactive and Functional Polymers</i> , 2018, 131, 123-133.	2.0	44
1081	Confined Redox Reactions of Iodide in Carbon Nanopores for Fast and Energy-Efficient Desalination of Brackish Water and Seawater. <i>ChemSusChem</i> , 2018, 11, 3460-3472.	3.6	46
1082	Relative importance of geometrical and intrinsic water transport properties of active layers in the water permeability of polyamide thin-film composite membranes. <i>Journal of Membrane Science</i> , 2018, 564, 935-944.	4.1	21
1083	Titania-Cellulose Hybrid Monolith for In-Flow Purification of Water under Solar Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29599-29607.	4.0	44

#	ARTICLE	IF	CITATIONS
1084	Highly hydrophilic thin-film composition forward osmosis (FO) membranes functionalized with aniline sulfonate/bisulfonate for desalination. <i>Journal of Membrane Science</i> , 2018, 564, 732-741.	4.1	42
1085	Interfacial Force-Assisted In-Situ Fabrication of Graphene Oxide Membrane for Desalination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27205-27214.	4.0	31
1086	Sustainable management of hypersaline brine waste: Zero liquid discharge via Joule-heating at supercritical condition. <i>Desalination</i> , 2018, 444, 84-93.	4.0	14
1087	Forward Osmosis Membranes – A Review: Part II. , 2018, , .		1
1088	Transport of uncharged organics in ion-exchange membranes: experimental validation of the solution-diffusion model. <i>Journal of Membrane Science</i> , 2018, 564, 773-781.	4.1	14
1089	Development of a mobile groundwater desalination system for communities in rural India. <i>Water Research</i> , 2018, 144, 642-655.	5.3	22
1090	Bacteriophage Infectivity Against <i>Pseudomonas aeruginosa</i> in Saline Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 875.	1.5	11
1091	Impact of brine and antiscalants on reef-building corals in the Gulf of Aqaba – Potential effects from desalination plants. <i>Water Research</i> , 2018, 144, 183-191.	5.3	79
1092	The Influencing Mechanisms of Sodium Hexametaphosphate on Chalcopyrite Flotation in the Presence of MgCl ₂ and CaCl ₂ . <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 150.	0.8	24
1093	Substrate Effect on Carbon/Ceramic Mixed Matrix Membrane Prepared by a Vacuum-Assisted Method for Desalination. <i>Processes</i> , 2018, 6, 47.	1.3	6
1094	Uptake of Zn ²⁺ and As ³⁺ from Wastewater by Adsorption onto Imine Functionalized Magnetic Nanoparticles. <i>Water (Switzerland)</i> , 2018, 10, 36.	1.2	11
1095	Different bacterial species and their extracellular polymeric substances (EPSs) significantly affected reverse osmosis (RO) membrane fouling potentials in wastewater reclamation. <i>Science of the Total Environment</i> , 2018, 644, 486-493.	3.9	37
1096	Probing the Internal Microstructure of Polyamide Thin-Film Composite Membranes Using Resonant Soft X-ray Scattering. <i>ACS Macro Letters</i> , 2018, 7, 927-932.	2.3	21
1097	Perspective: Interfacial materials at the interface of energy and water. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	106
1098	Temperature Effects on Concentration Polarization Thickness in Thin-Film Composite Reverse Osmosis Membranes. <i>Chemical Engineering and Technology</i> , 2018, 41, 1905-1912.	0.9	4
1099	Assisted reverse electrodialysis – principles, mechanisms, and potential. <i>Npj Clean Water</i> , 2018, 1, .	3.1	30
1100	High-performance thin-film composite forward osmosis membrane fabricated on low-cost PVB/PVC substrate. <i>New Journal of Chemistry</i> , 2018, 42, 13382-13392.	1.4	22
1101	Membrane crystallization via membrane distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 123, 258-271.	1.8	77

#	ARTICLE	IF	CITATIONS
1102	Assembling the water factory: Seawater desalination and the techno-politics of water privatisation in the San Diego-Tijuana metropolitan region. <i>Geoforum</i> , 2018, 93, 32-39.	1.4	23
1103	Brine pre-treatment technologies for zero liquid discharge systems. <i>Desalination</i> , 2018, 441, 96-111.	4.0	108
1104	A combined ultrafiltration-reverse osmosis process for external reuse of Weiyuan shale gas flowback and produced water. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 942-955.	1.2	39
1105	Micron-size Silicon Monoxide Asymmetric Membranes for Highly Stable Lithium Ion Battery Anode. <i>ChemistrySelect</i> , 2018, 3, 8662-8668.	0.7	6
1106	Investigating the prospects of water desalination using a thermal water pump coupled with reverse osmosis membrane. <i>Desalination</i> , 2018, 445, 256-265.	4.0	12
1107	Membrane Desalination Technology in Algeria: Reverse Osmosis for Coastal Areas. <i>Green Energy and Technology</i> , 2018, , 197-218.	0.4	5
1108	Electron tomography reveals details of the internal microstructure of desalination membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8694-8699.	3.3	69
1109	Localized heating with a photothermal polydopamine coating facilitates a novel membrane distillation process. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18799-18807.	5.2	138
1110	Carbon Nanotubes for Clean Water. <i>Carbon Nanostructures</i> , 2018, , .	0.1	4
1111	Disinfection. <i>Carbon Nanostructures</i> , 2018, , 151-170.	0.1	1
1112	Surprisingly selective sulfate extraction by a simple monofunctional di(imino)guanidinium micelle-forming anion receptor. <i>Chemical Communications</i> , 2018, 54, 10048-10051.	2.2	27
1113	An overview of process systems engineering approaches for process intensification: State of the art. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 133, 160-210.	1.8	216
1114	Highly thin film nanocomposite membrane based metal organic complexes for brackish water desalination. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5459-5469.	3.3	24
1115	Elucidating the mechanism behind the laccase-mediated modification of poly(ethersulfone). <i>RSC Advances</i> , 2018, 8, 27101-27110.	1.7	3
1116	Scaling problems and control technologies in industrial operations: Technology assessment. <i>Separation and Purification Technology</i> , 2018, 207, 20-27.	3.9	15
1117	Desalination by pervaporation. , 2018, , 205-226.		11
1118	Nanocomposite membranes. , 2018, , 285-330.		17
1119	Desalination of shale gas wastewater: Thermal and membrane applications for zero-liquid discharge. , 2018, , 399-431.		4

#	ARTICLE	IF	CITATIONS
1120	Seawater desalination for crop irrigationâ€”Current status and perspectives. , 2018, , 461-492.		11
1121	Polarizable Molecular Simulations Reveal How Silicon-Containing Functional Groups Govern the Desalination Mechanism in Nanoporous Graphene. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4279-4290.	2.3	8
1122	Desalination Concentrate Management and Valorization Methods. , 2018, , 351-399.		7
1123	Challenges and opportunities in functional carbon nanotubes for membrane-based water treatment and desalination. <i>Science of the Total Environment</i> , 2019, 646, 1126-1139.	3.9	177
1124	A Monte Carlo-based integrated model to optimize the cost and pollution reduction in wastewater treatment processes in a typical comprehensive industrial park in China. <i>Science of the Total Environment</i> , 2019, 647, 1-10.	3.9	34
1125	Separation Technologies for Salty Wastewater Reduction in the Dairy Industry. <i>Separation and Purification Reviews</i> , 2019, 48, 325-353.	2.8	19
1126	Techno-Economic Feasibility Analysis for Minor Elements Valorization from Desalination Concentrates. <i>Separation and Purification Reviews</i> , 2019, 48, 220-241.	2.8	23
1128	Photocatalytic Degradation of Organic Pollutants in Water Using Graphene Oxide Composite. , 2019, , 413-438.		20
1129	Novel graphene quantum dots (GQDs)-incorporated thin film composite (TFC) membranes for forward osmosis (FO) desalination. <i>Desalination</i> , 2019, 451, 219-230.	4.0	99
1130	A comprehensive review of energy consumption of seawater reverse osmosis desalination plants. <i>Applied Energy</i> , 2019, 254, 113652.	5.1	284
1131	High-Performance Graphene Oxide Nanofiltration Membranes for Black Liquor Concentration. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14915-14923.	3.2	21
1132	Advances in Membrane Materials and Processes for Desalination of Brackish Water. <i>Current Pollution Reports</i> , 2019, 5, 319-336.	3.1	12
1133	The feasibility of UF-RO integrated membrane system combined with coagulation/flocculation for hairwork dyeing effluent reclamation. <i>Science of the Total Environment</i> , 2019, 691, 45-54.	3.9	29
1134	Renewable energy powered membrane technology: A review of the reliability of photovoltaic-powered membrane system components for brackish water desalination. <i>Applied Energy</i> , 2019, 253, 113524.	5.1	56
1135	Controlled Postassembly Functionalization of Mesoporous Copolymer Membranes Informed by Fourier Transform Infrared Spectroscopy. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2120-2130.	2.0	3
1136	Membrane Processes for the Regeneration of Liquid Desiccant Solution for Air Conditioning. <i>Current Pollution Reports</i> , 2019, 5, 308-318.	3.1	21
1137	Hydrophobic SiO ₂ nanoparticleâ€”induced polyvinylidene fluoride crystal phase inversion to enhance permeability of thin film composite membrane. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48204.	1.3	9
1138	Ag-doped sepiolite intercalated graphene nanostructure for hybrid capacitive deionization system. <i>Separation and Purification Technology</i> , 2019, 229, 115799.	3.9	29

#	ARTICLE	IF	CITATIONS
1139	Mesoporous Polymer Nanosponges Immobilized with Functional Polyols for Rapid Removal of Boric Acid and Organic Micropollutants. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2089-2098.	2.0	25
1140	Commissioning a High-Reccovery Brackish Groundwater Desalination Plant in San Antonio. <i>Journal - American Water Works Association</i> , 2019, 111, 60-69.	0.2	1
1141	Real-Time Implementation of an Expert Model Predictive Controller in a Pilot-Scale Reverse Osmosis Plant for Brackish and Seawater Desalination. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2932.	1.3	21
1142	Inorganic scaling in reverse osmosis (RO) desalination: Mechanisms, monitoring, and inhibition strategies. <i>Desalination</i> , 2019, 468, 114065.	4.0	82
1143	Biofouling effects on the performance of microbial fuel cells and recent advances in biotechnological and chemical strategies for mitigation. <i>Biotechnology Advances</i> , 2019, 37, 107420.	6.0	71
1144	Pathways and challenges for efficient solar-thermal desalination. <i>Science Advances</i> , 2019, 5, eaax0763.	4.7	311
1145	Membrane capacitive deionization for low-salinity desalination in the reclamation of domestic wastewater effluents. <i>Chemosphere</i> , 2019, 235, 413-422.	4.2	30
1146	Brackish Water Desalination: An Effective Pretreatment Process for Reverse Osmosis Systems. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	10
1147	Synthesis of UHMW Star-Shaped AB Block Copolymers and Their Flocculation Efficiency in High-Ionic-Strength Environments. <i>Macromolecules</i> , 2019, 52, 7613-7624.	2.2	16
1148	High-quality ultralong copper sulphide nanowires for promising applications in high efficiency solar water evaporation. <i>Materials Chemistry Frontiers</i> , 2019, 3, 394-398.	3.2	28
1149	Photothermal materials for efficient solar powered steam generation. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 636-653.	2.3	49
1150	Public health interventions for chronic diseases: cost-benefit modelizations for eradicating chronic kidney disease of multifactorial origin (CKDmfo/ CKDu) from tropical countries. <i>Heliyon</i> , 2019, 5, e02309.	1.4	16
1152	Sustainably integrating desalination with solar power to overcome future freshwater scarcity in China. <i>Global Energy Interconnection</i> , 2019, 2, 98-113.	1.4	51
1153	Advances and challenges in solar-powered wastewater treatment technologies for sustainable development: a comprehensive review. <i>International Journal of Ambient Energy</i> , 2022, 43, 958-991.	1.4	10
1154	Surfactant-Assisted Fabrication of Alumina-Doped Amorphous Silica Nanofiltration Membranes with Enhanced Water Purification Performances. <i>Nanomaterials</i> , 2019, 9, 1368.	1.9	9
1155	Household Water Treatment and Safe Storage in Low-Income Countries. , 2019, , 510-521.		0
1156	Investigation of Cleaning Strategies for an Antifouling Thin-Film Composite Forward Osmosis Membrane for Treatment of Polymer-Flooding Produced Water. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 994-1003.	1.8	19
1157	Treatment of RO concentrate from six potable reuse facilities in the southwestern USA with a new photobiological process. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1661-1667.	1.0	2

#	ARTICLE	IF	CITATIONS
1158	The adsorption characteristics of fluoride on commercial activated carbon treated with quaternary ammonium salts (Quats). <i>Science of the Total Environment</i> , 2019, 693, 133605.	3.9	30
1159	Evaluation of chlorophenol removal from wastewater using multi-stage spiral-wound reverse osmosis process via simulation. <i>Computers and Chemical Engineering</i> , 2019, 130, 106522.	2.0	8
1160	How RO membrane permeability and other performance factors affect process cost and energy use: A review. <i>Desalination</i> , 2019, 470, 114064.	4.0	119
1161	High performance reverse osmosis membrane with carbon nanotube support layer. <i>Journal of Membrane Science</i> , 2019, 592, 117358.	4.1	29
1162	Advances in solar evaporator materials for freshwater generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24092-24123.	5.2	190
1163	Quantitative Characterization of a Desalination Membrane Model System by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2019, 35, 11315-11321.	1.6	12
1164	Pretreatment processes for seawater reverse osmosis desalination systems—A review. <i>Journal of Water Process Engineering</i> , 2019, 32, 100926.	2.6	84
1165	Comparative performance of FO-RO hybrid and two-pass SWRO desalination processes: Boron removal. <i>Desalination</i> , 2019, 471, 114114.	4.0	29
1166	An integrated fertilizer driven forward osmosis- renewables powered membrane distillation system for brackish water desalination: A combined experimental and theoretical approach. <i>Desalination</i> , 2019, 471, 114126.	4.0	47
1167	Performance improvements by embedded spacer in direct contact membrane distillation –“ Computational study. <i>Desalination</i> , 2019, 470, 114103.	4.0	28
1168	Computational fluid dynamic modeling of water desalination using low-energy continuous direct contact membrane distillation process. <i>Applied Thermal Engineering</i> , 2019, 163, 114391.	3.0	36
1169	Tandem Desalination/Salination Strategies Enabling the Use of Redox Couples for Efficient and Sustainable Electrochemical Desalination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38641-38647.	4.0	23
1170	Improvement of montmorillonite adsorption capacity for lead ions by modifying with hexadecyl trimethyl ammonium chloride: Characterization, modelling and optimization studies. <i>MethodsX</i> , 2019, 6, 2217-2229.	0.7	10
1171	Enhancing the permeability of TFC membranes based on incorporating polyamide matrix into MWCNTs framework. <i>Applied Surface Science</i> , 2019, 496, 143680.	3.1	18
1172	Repeated pressurization as a potential cause of deterioration in virus removal by aged reverse osmosis membrane used in households. <i>Science of the Total Environment</i> , 2019, 695, 133814.	3.9	15
1173	Mushroom-Like rGO/PAM Hybrid Cryogels with Efficient Solar-Heating Water Evaporation. <i>ACS Applied Energy Materials</i> , 2019, 2, 7554-7563.	2.5	52
1174	Seawater pretreatment with an NF-like forward osmotic membrane: Membrane preparation, characterization and performance comparison with RO-like membranes. <i>Desalination</i> , 2019, 470, 114115.	4.0	18
1175	Modeling and Simulation Studies Analyzing the Pressure-Retarded Osmosis (PRO) and PRO-Hybridized Processes. <i>Energies</i> , 2019, 12, 243.	1.6	20

#	ARTICLE	IF	CITATIONS
1176	Trends in graphene reinforced polyamide nanocomposite for functional application: a review. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 917-933.	0.6	21
1177	Graphynes for Water Desalination and Gas Separation. <i>Advanced Materials</i> , 2019, 31, e1803772.	11.1	75
1178	Application of the macrohomogeneous line model for the characterization of carbon aerogel electrodes in capacitive deionization. <i>Electrochimica Acta</i> , 2019, 301, 1-7.	2.6	20
1179	Functionalized Cellulose Nanocrystal Nanocomposite Membranes with Controlled Interfacial Transport for Improved Reverse Osmosis Performance. <i>Nanomaterials</i> , 2019, 9, 125.	1.9	38
1180	Multi-meshes coupled cathodes enhanced performance of electrochemical water softening system. <i>Separation and Purification Technology</i> , 2019, 217, 128-136.	3.9	41
1181	Secondary treated domestic wastewater in reverse electrodialysis: What is the best pre-treatment?. <i>Separation and Purification Technology</i> , 2019, 218, 25-42.	3.9	26
1182	Molecular dynamics study of oxygen transport resistance through ionomer thin film on Pt surface. <i>Journal of Power Sources</i> , 2019, 414, 263-271.	4.0	58
1183	Sodium ion removal by hydrated vanadyl phosphate for electrochemical water desalination. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4175-4184.	5.2	46
1184	Silver Nanoparticle-Enabled Photothermal Nanofibrous Membrane for Light-Driven Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3269-3281.	1.8	70
1185	A Review. , 2019, , 199-214.		4
1186	Dual-Function Electrochemical Deionization System with Binder-Free Aerogel Electrodes. <i>Small</i> , 2019, 15, e1805505.	5.2	82
1187	Desalination Technologies. , 2019, , 11-34.		12
1188	Rapid and selective lithium recovery from desalination brine using an electrochemical system. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 667-676.	1.7	53
1189	Comparison of energy consumption in desalination by capacitive deionization and reverse osmosis. <i>Desalination</i> , 2019, 455, 100-114.	4.0	210
1190	Highly compact, free-standing porous electrodes from polymer-derived nanoporous carbons for efficient electrochemical capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1768-1778.	5.2	47
1191	Linoleic acid, a plant fatty acid, controls membrane biofouling via inhibition of biofilm formation. <i>Fuel</i> , 2019, 253, 754-761.	3.4	20
1192	2D-enabled membranes: materials and beyond. <i>BMC Chemical Engineering</i> , 2019, 1, .	3.4	27
1195	Scaling after remineralisation of reverse osmosis permeate. <i>Desalination</i> , 2019, 467, 57-63.	4.0	12

#	ARTICLE	IF	CITATIONS
1197	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) Diacrylate.1. Ion sorption. <i>Polymer</i> , 2019, 178, 121554.	1.8	25
1198	Strategies for tuning hierarchical porosity of 3D rGO to optimize ion electrosorption. <i>2D Materials</i> , 2019, 6, 045010.	2.0	17
1199	Limiting power density in pressure-retarded osmosis: Observation and implications. <i>Desalination</i> , 2019, 467, 51-56.	4.0	31
1200	Removal and recovery of calcium from aqueous solutions by fluidized-bed homogeneous crystallization. <i>Chemical Engineering Research and Design</i> , 2019, 128, 307-315.	2.7	33
1201	Physicochemical, Microbial and Ecotoxicological Characteristics of Textile Effluent Collected in the Southeast Region of Brazil. <i>Journal of Environment and Ecology</i> , 2019, 10, 1.	0.2	1
1202	Engineering Carbon Nanotube Forest Superstructure for Robust Thermal Desalination Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1903125.	7.8	48
1203	Influence of Surface Micro-Patterning and Hydrogel Coating on Colloidal Silica Fouling of Polyamide Thin-Film Composite Membranes. <i>Membranes</i> , 2019, 9, 67.	1.4	23
1204	Enhancing the Permeability and Antifouling Properties of Polyamide Composite Reverse Osmosis Membrane by Surface Modification with Zwitterionic Amino Acid <i>l</i> -Arginine. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900706.	1.9	35
1205	Tuning the permselectivity of polymeric desalination membranes via control of polymer crystallite size. <i>Nature Communications</i> , 2019, 10, 2347.	5.8	43
1206	Optimal technical and economic configuration of photovoltaic powered reverse osmosis desalination systems operating in autonomous mode. <i>Desalination</i> , 2019, 466, 97-106.	4.0	63
1207	Desalination and removal of organic pollutants using electrobiochemical reactor. <i>Applied Water Science</i> , 2019, 9, 1.	2.8	12
1208	Synthesis and characterization of post-sulfonated poly(arylene ether sulfone) membranes for potential applications in water desalination. <i>Polymer</i> , 2019, 177, 250-261.	1.8	17
1209	110th Anniversary: Selection of Cross-Linkers and Cross-Linking Procedures for the Fabrication of Solvent-Resistant Nanofiltration Membranes: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10678-10691.	1.8	71
1210	Effect of carboxylic acid crosslinking of cellulose membranes on nanofiltration performance in ethanol and dimethylsulfoxide. <i>Journal of Membrane Science</i> , 2019, 587, 117175.	4.1	26
1211	Evaluation of chemical cleaning to control fouling on nanofiltration and reverse osmosis membranes after desalination of MBR effluent. <i>Desalination</i> , 2019, 466, 44-51.	4.0	29
1212	Activated <i>Luffa</i> derived biowaste carbon for enhanced desalination performance in brackish water. <i>RSC Advances</i> , 2019, 9, 14884-14892.	1.7	20
1213	The effect of hydrocarbon pollution on polysulfone-based membranes in aqueous separations. <i>Separation and Purification Technology</i> , 2019, 224, 348-355.	3.9	4
1214	Fouling behavior of isolated dissolved organic fractions from seawater in reverse osmosis (RO) desalination process. <i>Water Research</i> , 2019, 159, 385-396.	5.3	54

#	ARTICLE	IF	CITATIONS
1215	Self-cleaning Anti-fouling TiO ₂ /Poly(aryl ether sulfone) Composite Ultrafiltration Membranes. Chemical Research in Chinese Universities, 2019, 35, 714-720.	1.3	4
1216	Impacts of antiscalants on the formation of calcium solids: implication on scaling potential of desalination concentrate. Environmental Science: Water Research and Technology, 2019, 5, 1285-1294.	1.2	21
1217	Return flow ion concentration polarization desalination: A new way to enhance electromembrane desalination. Water Research, 2019, 159, 501-510.	5.3	24
1218	Advanced desalination technologies. , 2019, , 93-131.		7
1219	Desalination and Solar Still: Boon to Earth. Green Energy and Technology, 2019, , 1-24.	0.4	4
1220	Water desalination using a temperature gradient. Desalination, 2019, 464, 1-7.	4.0	10
1221	Control of membrane biofouling by 6-gingerol analogs: Quorum sensing inhibition. Fuel, 2019, 250, 79-87.	3.4	34
1222	Improved Kinetics and Water Recovery with Propane as Co-Guest Gas on the Hydrate-Based Desalination (HyDesal) Process. ChemEngineering, 2019, 3, 31.	1.0	19
1223	An optimization strategy for a forward osmosis-reverse osmosis hybrid process for wastewater reuse and seawater desalination: A modeling study. Desalination, 2019, 463, 40-49.	4.0	49
1224	Emerging R&D on membranes and systems for water reuse and desalination. Chinese Journal of Chemical Engineering, 2019, 27, 1578-1585.	1.7	27
1225	Structures, Properties, and Performances Relationships of Polymeric Membranes for Pervaporative Desalination. Membranes, 2019, 9, 58.	1.4	16
1226	Antiwetting and Antifouling Janus Membrane for Desalination of Saline Oily Wastewater by Membrane Distillation. ACS Applied Materials & Interfaces, 2019, 11, 18456-18465.	4.0	120
1227	Introduction to Coastal Groundwater Systems. , 2019, , 1-18.		2
1228	Governing Equations for Variable-Density Flow. , 2019, , 19-46.		0
1229	Analytical Solutions for a Steady Freshwater Saltwater Interface. , 2019, , 47-72.		0
1230	Groundwater Tidal Dynamics. , 2019, , 73-103.		0
1231	Hydrogeochemistry of Coastal Aquifer Systems. , 2019, , 104-158.		0
1232	Seawater Intrusion. , 2019, , 159-186.		0

#	ARTICLE	IF	CITATIONS
1233	Submarine Groundwater Discharge. , 2019, , 187-214.		0
1234	Coastal Palaeo-Hydrogeology. , 2019, , 215-254.		1
1235	Impact of Land Reclamation on Coastal Groundwater Systems. , 2019, , 255-282.		0
1236	Sea Level Change and Coastal Aquifers. , 2019, , 283-297.		0
1237	Tide-Induced Airflow in Unsaturated Zones. , 2019, , 298-313.		0
1238	Coastal Aquifer Management and Seawater Intrusion Control. , 2019, , 314-348.		0
1241	Sustainable desalination process selection: Decision support framework under hybrid information. Desalination, 2019, 465, 44-57.	4.0	20
1242	Treatment of Saline Water Using Electrocoagulation with Combined Electrical Connection of Electrodes. Processes, 2019, 7, 242.	1.3	49
1244	Ion transport and selectivity in thin film composite membranes in pressure-driven and electrochemical processes. Journal of Membrane Science, 2019, 584, 46-55.	4.1	20
1245	Electroactive Membranes for Water Treatment: Enhanced Treatment Functionalities, Energy Considerations, and Future Challenges. Accounts of Chemical Research, 2019, 52, 1177-1186.	7.6	116
1246	Engineering Water and Solute Dynamics and Maximal Use of CNT Surface Area for Efficient Water Desalination. ACS Omega, 2019, 4, 6826-6847.	1.6	5
1247	Economic removal of chlorophenol from wastewater using multi-stage spiral-wound reverse osmosis process: Simulation and optimisation. Journal of Water Process Engineering, 2019, 31, 100829.	2.6	3
1248	Carbon polyaniline capacitive deionization electrodes with stable cycle life. Desalination, 2019, 464, 25-32.	4.0	32
1249	Application of (polyaniline/zeolite X) composite as anticorrosion coating for energy recovery devices in RO desalination water plants. International Journal of Industrial Chemistry, 2019, 10, 175-191.	3.1	10
1250	The efficient faradaic Li ₄ Ti ₅ O ₁₂ @C electrode exceeds the membrane capacitive desalination performance. Journal of Materials Chemistry A, 2019, 7, 8912-8921.	5.2	30
1251	Anomalous Dynamics of Water in Polyamide Matrix. Journal of Physical Chemistry B, 2019, 123, 3086-3095.	1.2	8
1252	Impact of repeated pressurization on virus removal by reverse osmosis membranes for household water treatment. Environmental Science: Water Research and Technology, 2019, 5, 910-919.	1.2	13
1253	Groundwater Quality on the Adriatic Karst Island of Mljet (Croatia) and Its Implications on Water Supply. Geofluids, 2019, 2019, 1-14.	0.3	8

#	ARTICLE	IF	CITATIONS
1254	Thin film nanocomposite reverse osmosis membrane incorporated with UiO-66 nanoparticles for enhanced boron removal. <i>Journal of Membrane Science</i> , 2019, 580, 101-109.	4.1	123
1255	Super-twisting sliding mode control and robust loop shaping design of RO desalination process powered by PV generator. <i>Desalination</i> , 2019, 458, 122-135.	4.0	15
1256	Melamine-based covalent organic framework-incorporated thin film nanocomposite membrane for enhanced osmotic power generation. <i>Desalination</i> , 2019, 459, 10-19.	4.0	72
1257	The status of forward osmosis technology implementation. <i>Desalination</i> , 2019, 461, 10-21.	4.0	120
1258	Progress of stimuli responsive membranes in water treatment. , 2019, , 69-99.		5
1259	Reverse osmosis desalination: A state-of-the-art review. <i>Desalination</i> , 2019, 459, 59-104.	4.0	765
1260	Salt separation from water using graphene oxide nanochannels: A molecular dynamics simulation study. <i>Desalination</i> , 2019, 460, 1-14.	4.0	60
1261	Functionalized Porous Aromatic Frameworks as High-Performance Adsorbents for the Rapid Removal of Boric Acid from Water. <i>Advanced Materials</i> , 2019, 31, e1808027.	11.1	96
1262	Plasma-Derived Graphene-Based Materials for Water Purification and Energy Storage. <i>Journal of Carbon Research</i> , 2019, 5, 16.	1.4	7
1263	Synthesis, characterization and excellent antibacterial property of cellulose acetate reverse osmosis membrane via a two-step reaction. <i>Carbohydrate Polymers</i> , 2019, 216, 312-321.	5.1	25
1264	Membrane capacitive deionization-reverse electrodialysis hybrid system for improving energy efficiency of reverse osmosis seawater desalination. <i>Desalination</i> , 2019, 462, 19-28.	4.0	68
1265	Improved fouling resistance for RO membranes by a surface modification method. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 344-354.	2.9	22
1266	Preparation and performance of ultra-thin surface coated pervaporation membranes for seawater purification. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1778-1784.	1.0	4
1267	Complexation and precipitation of scale-forming cations in oilfield produced water with polyelectrolytes. <i>Separation and Purification Technology</i> , 2019, 222, 1-10.	3.9	20
1268	Metals removal from acid mine drainage (Tinto River, SW Spain) by water gap and air gap membrane distillation. <i>Journal of Membrane Science</i> , 2019, 582, 20-29.	4.1	24
1269	Biochar versus bone char for a sustainable inorganic arsenic mitigation in water: What needs to be done in future research?. <i>Environment International</i> , 2019, 127, 52-69.	4.8	101
1270	Hydrological and economic feasibility of mitigating a stressed coastal aquifer using managed aquifer recharge: a case study of Jamma aquifer, Oman. <i>Journal of Arid Land</i> , 2019, 11, 148-159.	0.9	26
1271	Looking Beyond Energy Efficiency: An Applied Review of Water Desalination Technologies and an Introduction to Capillary-Driven Desalination. <i>Water (Switzerland)</i> , 2019, 11, 696.	1.2	42

#	ARTICLE	IF	CITATIONS
1272	Importance of microbial adaptation for concentrate management in wastewater reuse process. <i>Energy and Environment</i> , 2019, 30, 719-731.	2.7	2
1273	Facile performance enhancement of reverse osmosis membranes via solvent activation with benzyl alcohol. <i>Journal of Membrane Science</i> , 2019, 578, 220-229.	4.1	85
1274	Enhanced desalination performance of poly (vinyl alcohol)/carbon nanotube composite pervaporation membranes via interfacial engineering. <i>Journal of Membrane Science</i> , 2019, 579, 40-51.	4.1	85
1275	Nanotechnology: An Innovative Way for Wastewater Treatment and Purification. <i>Nanotechnology in the Life Sciences</i> , 2019, , 95-131.	0.4	9
1276	Control of gypsum-dominated scaling in reverse osmosis system using carboxymethyl cellulose. <i>Journal of Membrane Science</i> , 2019, 577, 20-30.	4.1	28
1277	New Technologies to Remove Halides from Water: An Overview. <i>Nanotechnology in the Life Sciences</i> , 2019, , 147-180.	0.4	5
1278	Growth patterns in mature desalination technologies and analogies with the energy field. <i>Desalination</i> , 2019, 457, 75-84.	4.0	45
1279	Membrane Desalination in Shale Gas Industry. , 2019, , 243-267.		3
1280	Tunable Pseudocapacitive Behavior in Metal-Organic Framework-Derived TiO ₂ @Porous Carbon Enabling High-Performance Membrane Capacitive Deionization. <i>ACS Applied Energy Materials</i> , 2019, 2, 1812-1822.	2.5	60
1281	Facile integration of halloysite nanotubes with bioadhesive as highly permeable interlayer in forward osmosis membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 276-285.	2.9	34
1282	Techno-economic analysis of ion concentration polarization desalination for high salinity desalination applications. <i>Water Research</i> , 2019, 155, 162-174.	5.3	20
1283	Recent advances in thin film composites membranes for brackish groundwater treatment with critical focus on Saskatchewan water sources. <i>Journal of Environmental Sciences</i> , 2019, 81, 181-194.	3.2	15
1284	Recycling of Reverse Osmosis (RO) Reject Water as a Mixing Water of Calcium Sulfoaluminate (CSA) Cement for Brick Production. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5044.	1.3	7
1285	Environmental Impacts of Concentrate Management Alternatives: Criteria for Comparative Assessment. , 2019, , .		1
1286	Application of Electro-Sorption Desalination Technique in Water Treatment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 371, 042005.	0.2	0
1287	The irresistible solution: rationale and risks of extending water limits through desalination in the case of Gotland, Sweden. <i>Journal of Political Ecology</i> , 2019, 26, .	0.4	4
1289	Home Water Purification System in Malaysia: Qualitative and Quantitative Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 601, 012011.	0.3	0
1290	Electrospun Nanofibrous Polyphenylene Oxide Membranes for High-Salinity Water Desalination by Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 20060-20069.	3.2	27

#	ARTICLE	IF	CITATIONS
1292	Management of Seawater Intrusion in Coastal Aquifers: A Review. <i>Water (Switzerland)</i> , 2019, 11, 2467.	1.2	97
1293	Energy Efficiency of Desalination: Fundamental Insights from Intuitive Interpretation. <i>Environmental Science & Technology</i> , 2020, 54, 76-84.	4.6	126
1294	Removal Efficiency of Cu ²⁺ and Zn ²⁺ from Industrial Wastewater by Using Microbial Desalination Cell. <i>Journal of Water Chemistry and Technology</i> , 2019, 41, 334-339.	0.2	5
1295	Observed Crystallization Induction Time in Seeded Gypsum Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23359-23365.	1.8	26
1296	A review: the effect of the microporous support during interfacial polymerization on the morphology and performances of a thin film composite membrane for liquid purification. <i>RSC Advances</i> , 2019, 9, 35417-35428.	1.7	69
1297	Separation of mixed salts (Cl ⁻ /SO ₄ ²⁻) by ED based on monovalent anion selective membranes. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 857-862.	1.7	6
1298	Reverse Osmosis Membrane Separation Technology. , 2019, , 1-45.		10
1299	An Overview of Membrane Distillation. , 2019, , 251-281.		10
1300	Membrane-based separation of potential emerging pollutants. <i>Separation and Purification Technology</i> , 2019, 210, 850-866.	3.9	277
1301	Graphene oxide surface modification of polyamide reverse osmosis membranes for improved N-nitrosodimethylamine (NDMA) removal. <i>Separation and Purification Technology</i> , 2019, 210, 973-980.	3.9	30
1302	Evaluation of the economics of desalination by integrating greenhouse gas emission costs: An empirical application for Chile. <i>Renewable Energy</i> , 2019, 133, 1327-1337.	4.3	28
1303	High-performance acid-stable polysulfonamide thin-film composite membrane prepared via spinning-assist multilayer interfacial polymerization. <i>Journal of Materials Science</i> , 2019, 54, 886-900.	1.7	38
1304	The state of desalination and brine production: A global outlook. <i>Science of the Total Environment</i> , 2019, 657, 1343-1356.	3.9	1,052
1305	Electrodialysis reversal for industrial reverse osmosis brine treatment. <i>Separation and Purification Technology</i> , 2019, 213, 339-347.	3.9	96
1306	Isolation, identification and biodiversity of antiscalant degrading seawater bacteria using MALDI-TOF-MS and multivariate analysis. <i>Science of the Total Environment</i> , 2019, 656, 910-920.	3.9	27
1307	Polyaniline/Tectona grandis sawdust: A novel composite for efficient decontamination of synthetically polluted water containing crystal violet dye. <i>Groundwater for Sustainable Development</i> , 2019, 8, 390-401.	2.3	58
1308	Review of concepts and applications of electrochemical ion separation (EIONS) process. <i>Separation and Purification Technology</i> , 2019, 215, 190-207.	3.9	81
1309	Chemical and microbiological quality of desalinated waters in Birjand city, Iran. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2019, 9, 64-70.	0.7	1

#	ARTICLE	IF	CITATIONS
1310	Influence of concentration polarization and thermodynamic non-ideality on salt transport in reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2019, 572, 668-675.	4.1	36
1312	Carbon Nanotubes for Advancing Separation Membranes. , 2019, , 333-359.		1
1313	Factors influencing photobiological treatment process to remove reactive silica from brackish groundwater reverse osmosis concentrate. <i>Desalination</i> , 2019, 452, 114-122.	4.0	5
1314	Hybrid seawater desalination-carbon capture using modified seawater battery system. <i>Journal of Power Sources</i> , 2019, 410-411, 99-105.	4.0	29
1315	Biofouling Detection on Reverse Osmosis Membranes. <i>Energy, Environment, and Sustainability</i> , 2019, , 379-402.	0.6	0
1316	Optimization of simplified freeze desalination with surface scraped freeze crystallizer for producing irrigation water without seeding. <i>Desalination</i> , 2019, 452, 68-74.	4.0	21
1317	Modeling and measurement of temperature and draw solution concentration induced water flux increment efficiencies in the forward osmosis membrane process. <i>Desalination</i> , 2019, 452, 75-86.	4.0	35
1318	Natural clays with an inherent uranium component that nevertheless sequester uranium from contaminated water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 101-109.	0.9	3
1319	A comprehensive review of solar-driven desalination technologies for off-grid greenhouses. <i>International Journal of Energy Research</i> , 2019, 43, 1357-1386.	2.2	44
1320	Flexible reverse osmosis (FLERO) desalination. <i>Desalination</i> , 2019, 452, 123-131.	4.0	13
1321	Stimuli-Responsive Membranes for Separations. <i>Polymers and Polymeric Composites</i> , 2019, , 1-18.	0.6	0
1322	The Utilization of CO ₂ , Alkaline Solid Waste, and Desalination Reject Brine in Soda Ash Production. <i>Energy, Environment, and Sustainability</i> , 2019, , 153-184.	0.6	3
1323	Reverse osmosis pretreatment technologies and future trends: A comprehensive review. <i>Desalination</i> , 2019, 452, 159-195.	4.0	300
1324	Electric field assisted ion adsorption with nanoporous SWCNT electrodes. <i>Adsorption</i> , 2019, 25, 1035-1041.	1.4	2
1325	Chronic effects of brine discharge from large-scale seawater reverse osmosis desalination facilities on benthic bacteria. <i>Water Research</i> , 2019, 151, 478-487.	5.3	59
1326	Ultralong Hydroxyapatite Nanowire-Based Filter Paper for High-Performance Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4288-4301.	4.0	49
1327	Fast-Growing Field of Interfacial Solar Steam Generation: Evolutional Materials, Engineered Architectures, and Synergistic Applications. <i>Solar Rrl</i> , 2019, 3, 1800206.	3.1	132
1328	Conversion and pre-concentration of SWRO reject brine into high solubility liquid salts (HSLs) by using electro dialysis metathesis. <i>Separation and Purification Technology</i> , 2019, 213, 587-598.	3.9	38

#	ARTICLE	IF	CITATIONS
1329	Indexing fouling reversibility in forward osmosis and its implications for sustainable operation of wastewater reclamation. <i>Journal of Membrane Science</i> , 2019, 574, 262-269.	4.1	17
1330	Enhanced the swelling resistance of polyamide membranes with reinforced concrete structure. <i>Journal of Membrane Science</i> , 2019, 575, 191-199.	4.1	25
1331	Rough or wiggly? Membrane topology and morphology for fouling control. <i>Journal of Fluid Mechanics</i> , 2019, 862, 753-780.	1.4	20
1332	Disinfection by-products in desalinated and blend water: formation and control strategy. <i>Journal of Water and Health</i> , 2019, 17, 1-24.	1.1	10
1333	Comparison of membrane distillation and high-temperature nanofiltration processes for treatment of silica-saturated water. <i>Journal of Membrane Science</i> , 2019, 570-571, 258-269.	4.1	9
1334	Fouling and cleaning of polymer-entwined graphene oxide nanocomposite membrane for forward osmosis process. <i>Separation Science and Technology</i> , 2019, 54, 1376-1386.	1.3	6
1335	Preparation, characterization and adsorption studies of the chemically modified <i>Luffa aegyptica</i> peel as a potential adsorbent for the removal of malachite green from aqueous solution. <i>Journal of Molecular Liquids</i> , 2019, 274, 315-327.	2.3	119
1336	Zwitterion-Functionalized Graphene Oxide Incorporated Polyamide Membranes with Improved Antifouling Properties. <i>Langmuir</i> , 2019, 35, 1513-1525.	1.6	38
1337	Phase equilibrium condition measurements in carbon dioxide hydrate forming system coexisting with sodium chloride aqueous solutions. <i>Journal of Chemical Thermodynamics</i> , 2019, 130, 192-197.	1.0	17
1338	Ultrafast formation of pyrogallol/polyethyleneimine nanofilms for aqueous and organic nanofiltration. <i>Journal of Membrane Science</i> , 2019, 570-571, 270-277.	4.1	23
1339	Role of emerging contaminants on solar photocatalytic treatment of organic matter in reverse osmosis concentrate. <i>Catalysis Today</i> , 2019, 326, 101-107.	2.2	13
1340	Direct solar steam generation system for clean water production. <i>Energy Storage Materials</i> , 2019, 18, 429-446.	9.5	234
1341	Improvement of performance of polyamide reverse osmosis membranes using dielectric barrier discharge plasma treatment as a novel surface modification method. <i>Polymer Engineering and Science</i> , 2019, 59, E468.	1.5	16
1342	Numerical model-based analysis of energy-efficient reverse osmosis (EERO) process: Performance simulation and optimization. <i>Desalination</i> , 2019, 453, 10-21.	4.0	17
1343	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science & Technology</i> , 2019, 53, 868-877.	4.6	83
1344	Solar powered desalination “Technology, energy and future outlook. <i>Desalination</i> , 2019, 453, 54-76.	4.0	358
1345	3D printing design of turbulence promoters in a cross-flow microfiltration system for fine particles removal. <i>Journal of Membrane Science</i> , 2019, 573, 647-656.	4.1	41
1346	Stimuli-responsive graphene-incorporated multifunctional chitosan for drug delivery applications: a review. <i>Expert Opinion on Drug Delivery</i> , 2019, 16, 79-99.	2.4	69

#	ARTICLE	IF	CITATIONS
1347	Energy-Water Nexus: Renewable-Integrated Hybridized Desalination Systems. , 2019, , 409-458.		28
1348	Ag-Cu bimetallic nanoparticle decorated graphene nanocomposite as an effective anode material for hybrid capacitive deionization (HCDI) system. <i>Electrochimica Acta</i> , 2019, 297, 1052-1062.	2.6	46
1349	Early biofouling detection using fluorescence-based extracellular enzyme activity. <i>Enzyme and Microbial Technology</i> , 2019, 120, 43-51.	1.6	10
1350	Wastewater Treatment by Renewable Energy Driven Membrane Processes. , 2019, , 1-19.		4
1351	Water Desalination by (Nonsolar) Renewable Energy-Powered RO Systems. , 2019, , 21-43.		1
1352	Concentrate management for integrated MBR-RO process for wastewater reclamation and reuse-preliminary tests. <i>Journal of Water Process Engineering</i> , 2019, 29, 100455.	2.6	13
1353	Integration of membrane separation and Fenton processes for sanitary landfill leachate treatment. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2897-2905.	1.2	22
1354	Support based novel single layer nanoporous graphene membrane for efficacious water desalination. <i>Desalination</i> , 2019, 451, 148-159.	4.0	25
1355	Large total area membrane of suspended single layer graphene for water desalination. <i>Desalination</i> , 2019, 451, 160-171.	4.0	39
1356	Inorganic fouling control in reverse osmosis wastewater reclamation by purging carbon dioxide. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1094-1102.	2.7	19
1357	Ceramic Membrane Distillation for Desalination. <i>Separation and Purification Reviews</i> , 2020, 49, 317-356.	2.8	31
1358	Preconcentration and Immobilization of Phosphate from Aqueous Solutions in Environmental Cleanup by a New Bio-based Anion Exchanger. <i>Waste and Biomass Valorization</i> , 2020, 11, 1373-1384.	1.8	5
1359	Circular economy in membrane technology: Using end-of-life reverse osmosis modules for preparation of recycled anion exchange membranes and validation in electro dialysis. <i>Journal of Membrane Science</i> , 2020, 593, 117423.	4.1	49
1360	Layer-by-layer assembly of polyethyleneimine/graphene oxide membranes for desalination of high-salinity water via pervaporation. <i>Separation and Purification Technology</i> , 2020, 234, 116077.	3.9	91
1361	Global Challenges in Energy and Environment. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2020, , .	0.4	3
1362	Silica fouling during groundwater RO treatment: The effect of colloidsâ€™ radius of curvature on dissolution and polymerisation. <i>Water Research</i> , 2020, 168, 115135.	5.3	4
1363	Extraction of strategically important elements from brines: Constraints and opportunities. <i>Water Research</i> , 2020, 168, 115149.	5.3	67
1364	Nanotechnology in water and wastewater treatment. Graphene â€” the nanomaterial for next generation of semipermeable membranes. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1515-1579.	6.6	24

#	ARTICLE	IF	CITATIONS
1365	Membrane treatment of leached mining waste – A potential process chain for the separation of the strategic elements germanium and rhenium. <i>Chemical Engineering Journal</i> , 2020, 380, 122476.	6.6	13
1366	Flow-electrode capacitive deionization (FCDI) scale-up using a membrane stack configuration. <i>Water Research</i> , 2020, 168, 115186.	5.3	87
1367	Thermal conversion of polypyrrole nanotubes to nitrogen-doped carbon nanotubes for efficient water desalination using membrane capacitive deionization. <i>Separation and Purification Technology</i> , 2020, 235, 116196.	3.9	45
1368	The roles of particles in enhancing membrane filtration: A review. <i>Journal of Membrane Science</i> , 2020, 595, 117570.	4.1	55
1369	Real-time detection of early-stage calcium sulfate and calcium carbonate scaling using Raman spectroscopy. <i>Journal of Membrane Science</i> , 2020, 596, 117603.	4.1	10
1370	Towards a low-energy seawater reverse osmosis desalination plant: A review and theoretical analysis for future directions. <i>Journal of Membrane Science</i> , 2020, 595, 117607.	4.1	154
1371	Synthesis of surface-anchored stable zwitterionic films for inhibition of biofouling. <i>Materials Chemistry and Physics</i> , 2020, 239, 121971.	2.0	11
1372	Manipulating Water and Heat with Nanoengineered Surfaces. <i>Women in Engineering and Science</i> , 2020, , 85-99.	0.2	0
1373	Women in Nanotechnology. <i>Women in Engineering and Science</i> , 2020, , .	0.2	1
1374	Biomass-based carbon electrode materials for capacitive deionization: a review. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1327-1356.	2.9	45
1375	NH ₄ V ₄ O ₁₀ /rGO Composite as a high-performance electrode material for hybrid capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 303-311.	1.2	19
1376	p-Phenylenediamine-grafted multi-walled carbon nanotubes as a hydrophilic modifier in thin-film nanocomposite membrane. <i>Polymer Bulletin</i> , 2020, 77, 3485-3498.	1.7	5
1377	Simultaneous Clean Water and Power Production from Seawater Using Osmosis: Process Simulation and Techno-economic Analysis. <i>Innovative Renewable Energy</i> , 2020, , 121-137.	0.2	1
1378	Offshore conversion of wind power to gaseous fuels: Feasibility study in a depleted gas field. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020, 234, 226-236.	0.8	7
1379	Facile and efficient removal of Pb(II) from aqueous solution by chitosan-lead ion imprinted polymer network. <i>Chemosphere</i> , 2020, 240, 124772.	4.2	40
1380	Scaling in reverse osmosis desalination plants: A perspective focusing on development of comprehensive simulation tools. <i>Desalination</i> , 2020, 474, 114193.	4.0	45
1381	Study of reverse osmosis membranes fouling by inorganic salts and colloidal particles during seawater desalination. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 733-742.	1.7	12
1382	Incorporation of Al ₂ O ₃ into cellulose triacetate membranes to enhance the performance of pervaporation for desalination of hypersaline solutions. <i>Desalination</i> , 2020, 474, 114198.	4.0	63

#	ARTICLE	IF	CITATIONS
1383	High-Performance Polyamide Thin-Film Nanocomposite Membranes Containing ZIF-8/CNT Hybrid Nanofillers for Reverse Osmosis Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5324-5332.	1.8	55
1384	A review of heat and mass transfer mechanisms of dehumidifiers and regenerators for liquid desiccant cooling systems. <i>Science and Technology for the Built Environment</i> , 2020, 26, 465-483.	0.8	6
1385	A pilot study of spiral-wound air gap membrane distillation process and its energy efficiency analysis. <i>Chemosphere</i> , 2020, 239, 124696.	4.2	21
1386	Surface Modification of Polystyrene Beads with Sulfonamide Derivatives and Application to Water Softening System. <i>Macromolecular Research</i> , 2020, 28, 172-178.	1.0	3
1387	Effect of anion exchange membrane capacity loss on pH and electric conductivity of saline solution during neutralization dialysis. <i>Journal of Membrane Science</i> , 2020, 595, 117573.	4.1	7
1388	Occurrence of disinfectant by-products in desalinated drinking water in Egypt. <i>Water and Environment Journal</i> , 2020, 34, 729-736.	1.0	5
1389	Synergistic Tandem Solar Electricity-Water Generators. <i>Joule</i> , 2020, 4, 347-358.	11.7	91
1390	The effect of chemical functional groups and salt concentration on performance of single-layer graphene membrane in water desalination process: A molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2020, 301, 112478.	2.3	43
1391	Recent Progress of Atmospheric Water Harvesting Using Metal-Organic Frameworks. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 33-40.	1.3	36
1392	Functionalized electrospun polymer nanofibers for treatment of water contaminated with uranium. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 622-634.	1.2	22
1393	Extraction and transport of sulfate using macrocyclic squaramide receptors. <i>Chemical Science</i> , 2020, 11, 201-207.	3.7	48
1394	MOF-Polymer Hybrid Materials: From Simple Composites to Tailored Architectures. <i>Chemical Reviews</i> , 2020, 120, 8267-8302.	23.0	512
1395	Selective ion separation by capacitive deionization (CDI) based technologies: a state-of-the-art review. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 243-257.	1.2	102
1396	Fe ₃ O ₄ /PVDF-HFP photothermal membrane with in-situ heating for sustainable, stable and efficient pilot-scale solar-driven membrane distillation. <i>Desalination</i> , 2020, 478, 114288.	4.0	95
1397	Development, characterization, and utilization of magnetized orange peel waste as a novel adsorbent for the confiscation of crystal violet dye from aqueous solution. <i>Groundwater for Sustainable Development</i> , 2020, 10, 100322.	2.3	74
1398	Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination. <i>Advanced Functional Materials</i> , 2020, 30, 1909387.	7.8	38
1399	Evaluation and minimisation of energy consumption in a medium-scale reverse osmosis brackish water desalination plant. <i>Journal of Cleaner Production</i> , 2020, 248, 119220.	4.6	52
1400	Influence of osmotic mediation on permeation of water in reverse osmosis: Experimental and numerical analysis. <i>Journal of Membrane Science</i> , 2020, 595, 117574.	4.1	6

#	ARTICLE	IF	CITATIONS
1401	Graphene oxide/methylene blue composite membrane for dyes separation: Formation mechanism and separation performance. <i>Applied Surface Science</i> , 2020, 505, 144145.	3.1	38
1402	Human exposure and risk of trihalomethanes during continuous showering events. <i>Science of the Total Environment</i> , 2020, 701, 134521.	3.9	12
1403	Energy-efficient separation of organic liquids using organosilica membranes via a reverse osmosis route. <i>Journal of Membrane Science</i> , 2020, 597, 117758.	4.1	46
1404	Preliminary assessment of innovative seawater reverse osmosis (SWRO) desalination powered by a hybrid solar photovoltaic (PV) - Tidal range energy system. <i>Desalination</i> , 2020, 477, 114247.	4.0	66
1405	Electrochemical corrosion behavior of 2205 duplex stainless steel in hot concentrated seawater under vacuum conditions. <i>Corrosion Science</i> , 2020, 165, 108383.	3.0	32
1406	Numerical simulation of electrokinetic desalination using microporous permselective membranes. <i>Desalination</i> , 2020, 477, 114262.	4.0	15
1407	Eco-efficiency analysis of desalination by precipitation integrated with reverse osmosis for zero liquid discharge in oil refineries. <i>Journal of Cleaner Production</i> , 2020, 250, 119547.	4.6	35
1408	Cement-based diesel exhaust emission soot coatings for the removal of organic pollutants from water. <i>Construction and Building Materials</i> , 2020, 234, 117377.	3.2	15
1409	A modeling framework to evaluate blending of seawater and treated wastewater streams for synergistic desalination and potable reuse. <i>Water Research</i> , 2020, 170, 115282.	5.3	22
1410	Minimal and zero liquid discharge with reverse osmosis using low-salt-rejection membranes. <i>Water Research</i> , 2020, 170, 115317.	5.3	102
1411	Impacts of flow channel geometry, hydrodynamic and membrane properties on osmotic backwash of RO membranes—CFD modeling and simulation. <i>Desalination</i> , 2020, 476, 114229.	4.0	13
1412	Highly Efficient and Selective Removal of Lead Ions from Aqueous Solutions by Conjugated Microporous Polymers with Functionalized Heterogeneous Pores. <i>Crystal Growth and Design</i> , 2020, 20, 337-344.	1.4	22
1413	2D Metal-Organic Framework Materials for Membrane-Based Separation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901514.	1.9	80
1414	Eco-friendly facile synthesis of glucose-derived microporous carbon spheres electrodes with enhanced performance for water capacitive deionization. <i>Desalination</i> , 2020, 477, 114278.	4.0	63
1415	Fault Detection and Isolation System Based on Structural Analysis of an Industrial Seawater Reverse Osmosis Desalination Plant. <i>Processes</i> , 2020, 8, 1100.	1.3	13
1416	Hybrid technologies: The future of energy efficient desalination – A review. <i>Desalination</i> , 2020, 495, 114659.	4.0	129
1417	Membrane desalination processes for water recovery from pre-treated brewery wastewater: Performance and fouling. <i>Separation and Purification Technology</i> , 2020, 252, 117420.	3.9	13
1418	Antifouling Property of Oppositely Charged Titania Nanosheet Assembled on Thin Film Composite Reverse Osmosis Membrane for Highly Concentrated Oily Saline Water Treatment. <i>Membranes</i> , 2020, 10, 237.	1.4	19

#	ARTICLE	IF	CITATIONS
1419	Design and fabrication of highly selective and permeable polymer membranes. Journal of Applied Physics, 2020, 128, .	1.1	10
1420	Influence of organic fouling layer characteristics and osmotic backwashing conditions on cleaning efficiency of RO membranes. Journal of Membrane Science, 2020, 616, 118604.	4.1	24
1421	Predicting risk and loss of disability-adjusted life years (DALY) from selected disinfection byproducts in multiple water supply sources in Saudi Arabia. Science of the Total Environment, 2020, 737, 140296.	3.9	15
1422	Two-Dimensional Nanomaterials and its Application as a Reverse Osmosis Membrane: An Overview. IOP Conference Series: Materials Science and Engineering, 2020, 912, 032046.	0.3	0
1423	Optimal sizing and techno-enviro-economic feasibility assessment of large-scale reverse osmosis desalination powered with hybrid renewable energy sources. Energy Conversion and Management, 2020, 224, 113377.	4.4	115
1424	Recent progress in graphene-based and ion-intercalation electrode materials for capacitive deionization. Journal of Electroanalytical Chemistry, 2020, 878, 114703.	1.9	21
1425	World's Demand for Food and Water: The Consequences of Climate Change. , 0, , .		38
1426	Phase- and Crystallinity-Tailorable MnO ₂ as an Electrode for Highly Efficient Hybrid Capacitive Deionization (HCDI). ACS Sustainable Chemistry and Engineering, 2020, 8, 11424-11434.	3.2	30
1427	Interaction of seawater microorganisms with scalants and antiscalants in reverse osmosis systems. Desalination, 2020, 487, 114480.	4.0	11
1428	Field validation of multifunctional ion exchange process for reverse osmosis pretreatment and phosphate recovery during impaired water reuse. Journal of Water Process Engineering, 2020, 36, 101347.	2.6	16
1429	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. Water Research, 2020, 183, 115969.	5.3	20
1430	Batch Studies of Phosphonate and Phosphate Adsorption on Granular Ferric Hydroxide (GFH) with Membrane Concentrate and Its Synthetic Replicas. Molecules, 2020, 25, 5202.	1.7	5
1431	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. Environmental Science & Technology, 2020, 54, 15563-15583.	4.6	308
1432	Intrapore energy barriers govern ion transport and selectivity of desalination membranes. Science Advances, 2020, 6, .	4.7	161
1433	Microfluidic Isolation and Enrichment of Nanoparticles. ACS Nano, 2020, 14, 16220-16240.	7.3	59
1434	High-value conversion of Na ₂ SO ₄ wastewater by a continuous electro-dialytic metathesis process: Effects of coexisting ions. Journal of Membrane Science, 2020, 615, 118584.	4.1	13
1435	Environmental impact of desalination technologies: A review. Science of the Total Environment, 2020, 748, 141528.	3.9	235
1436	Current advances in membrane technologies for produced water desalination. Desalination, 2020, 493, 114643.	4.0	102

#	ARTICLE	IF	CITATIONS
1437	A Novel Salt-Rejecting Linen Fabric-Based Solar Evaporator for Stable and Efficient Water Desalination under Highly Saline Water. ACS Sustainable Chemistry and Engineering, 2020, 8, 11845-11852.	3.2	65
1438	Feasibility analysis of reverse osmosis desalination driven by a solar pond in Mediterranean and semi-arid climates. Energy Conversion and Management, 2020, 221, 113190.	4.4	31
1439	Advanced Nanowood Materials for the Water-Energy Nexus. Advanced Materials, 2021, 33, e2001240.	11.1	59
1440	Operating parameters optimization of combined UF/NF dual-membrane process for brackish water treatment and its application performance in municipal drinking water treatment plant. Journal of Water Process Engineering, 2020, 38, 101547.	2.6	15
1441	An Analysis of the Cost of Water Supply Linked to the Tourism Industry. An Application to the Case of the Island of Ibiza in Spain. Water (Switzerland), 2020, 12, 2006.	1.2	24
1442	Integrated energy efficiency evaluation of a multi-source multi-load desalination micro-energy network. Global Energy Interconnection, 2020, 3, 128-139.	1.4	7
1443	Advanced Characterization in Clean Water Technologies. Joule, 2020, 4, 1637-1659.	11.7	33
1444	Microbial desalination cells for water purification and power generation: A critical review. Energy, 2020, 209, 118493.	4.5	92
1445	Silica scaling of reverse osmosis membranes preconditioned by natural organic matter. Science of the Total Environment, 2020, 746, 141178.	3.9	21
1446	Achievements in high pressure membrane processes NF and RO for wastewater and water treatment. , 2020, , 109-126.		1
1447	Ultra-black and self-cleaning all carbon nanotube hybrid films for efficient water desalination and purification. Carbon, 2020, 169, 134-141.	5.4	52
1448	Exploring and comparing the roles of Ca ²⁺ and Mg ²⁺ in small-sized natural organics-induced charged nanofiltration membrane fouling. Separation and Purification Technology, 2020, 251, 117415.	3.9	24
1449	Energy efficiency of staged reverse osmosis (RO) and closed-circuit reverse osmosis (CCRO) desalination: a model-based comparison. Water Science and Technology: Water Supply, 2020, 20, 3096-3106.	1.0	9
1450	The effect of chemistry of nanoparticle modifier groups on the PVDF membranes for membrane distillation. Chemical Engineering Research and Design, 2020, 164, 1-10.	2.7	5
1451	Systemic design and energy management of a standalone battery-less PV/Wind driven brackish water reverse osmosis desalination system. Sustainable Energy Technologies and Assessments, 2020, 42, 100884.	1.7	12
1452	Multifunctional nanocoated membranes for high-rate electrothermal desalination of hypersaline waters. Nature Nanotechnology, 2020, 15, 1025-1032.	15.6	88
1453	New Insights into Water Treatment Materials with Chemically Sensitive Soft and Tender X-rays. Synchrotron Radiation News, 2020, 33, 17-23.	0.2	5
1454	Alternative water supply solutions: China's South-to-North-water-diversion in Jinan. Journal of Environmental Management, 2020, 276, 111337.	3.8	20

#	ARTICLE	IF	CITATIONS
1455	Equilibrium, kinetic, and thermodynamic studies of lead ion adsorption from mine wastewater onto MoS ₂ -clinoptilolite composite. <i>Materials Today Chemistry</i> , 2020, 18, 100376.	1.7	69
1456	Transport analysis of particulate matter in media-saturated mesh tube filter for the desalination primary pretreatment process. <i>Desalination</i> , 2020, 495, 114642.	4.0	7
1457	Organic compounds and microbial assessment of a seawater reverse osmosis facility at Tampa Bay Water, USA. <i>Desalination</i> , 2020, 496, 114735.	4.0	13
1458	Advancements in thermal induced membrane separation processes. , 2020, , 269-295.		0
1459	Synthesis of novel thin film composite (TFC) forward osmosis (FO) membranes incorporated with carboxylated carbon nanofibers (CNFs). <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104614.	3.3	35
1460	Cooperative Transport and Selective Extraction of Sulfates by a Squaramide-Based Ion Pair Receptor: A Case of Adaptable Selectivity. <i>Inorganic Chemistry</i> , 2020, 59, 13749-13759.	1.9	21
1461	Stochastic Collisionâ€Attachment-Based Monte Carlo Simulation of Colloidal Fouling: Transition from Foulantâ€Clean-Membrane Interaction to Foulantâ€Fouled-Membrane Interaction. <i>Environmental Science & Technology</i> , 2020, 54, 12703-12712.	4.6	19
1462	Improving Prediction Accuracy of Socio-Human Relationships in a Small-Scale Desalination Plant. <i>Sustainability</i> , 2020, 12, 6949.	1.6	5
1463	<i>Environmental Microbiology and Biotechnology</i> . , 2020, , .		2
1464	<i>in silico</i> study of structure and water dynamics in CNT/polyamide nanocomposite reverse osmosis membranes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22324-22331.	1.3	6
1465	New insights into the beneficial roles of dispersants in reducing negative influence of Mg ²⁺ on molybdenite flotation. <i>RSC Advances</i> , 2020, 10, 27401-27406.	1.7	4
1466	Investigating the Mechanisms of AquaporinZ Reconstitution through Polymeric Vesicle Composition for a Biomimetic Membrane. <i>Polymers</i> , 2020, 12, 1944.	2.0	2
1467	Nanofibrous Aerogels with Vertically Aligned Microchannels for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42686-42695.	4.0	30
1468	Long-Running Comparison of Feed-Water Scaling in Membrane Distillation. <i>Membranes</i> , 2020, 10, 173.	1.4	13
1469	A low-cost lotus leaf-based carbon film for solar-driven steam generation. <i>New Carbon Materials</i> , 2020, 35, 436-443.	2.9	26
1470	Improving nutrient and water use efficiencies in multi-loop aquaponics systems. <i>Aquaculture International</i> , 2020, 28, 2481-2490.	1.1	9
1471	Design, Selection and Application of Energy Recovery Device in Seawater Desalination: A Review. <i>Energies</i> , 2020, 13, 4150.	1.6	28
1472	100th Anniversary of Macromolecular Science Viewpoint: Integrated Membrane Systems. <i>ACS Macro Letters</i> , 2020, 9, 1267-1279.	2.3	19

#	ARTICLE	IF	CITATIONS
1473	Unveiling the Molecular Mechanisms of Thickness-Dependent Water Dynamics in an Ultrathin Free-Standing Polyamide Membrane. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11939-11948.	1.2	11
1474	Tuning the Pore Structures of Organosilica Membranes for Enhanced Desalination Performance via the Control of Calcination Temperatures. <i>Membranes</i> , 2020, 10, 392.	1.4	5
1475	Next-Generation Ultrafiltration Membranes Enabled by Block Polymers. <i>ACS Nano</i> , 2020, 14, 16446-16471.	7.3	108
1476	Modelling framework for desalination treatment train comparison applied to brackish water sources. <i>Desalination</i> , 2020, 494, 114632.	4.0	5
1477	The association between drinking water salinity and hypertension in coastal Bangladesh. <i>Global Health Journal (Amsterdam, Netherlands)</i> , 2020, 4, 153-158.	1.9	13
1478	Performance Comparison of Spiral-Wound and Plate-and-Frame Forward Osmosis Membrane Module. <i>Membranes</i> , 2020, 10, 318.	1.4	9
1479	Self-Suspended Photothermal Microreactor for Water Desalination and Integrated Volatile Organic Compound Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51537-51545.	4.0	47
1480	Designing Solute-Tailored Selectivity in Membranes: Perspectives for Water Reuse and Resource Recovery. <i>ACS Macro Letters</i> , 2020, 9, 1709-1717.	2.3	62
1481	Synergic effect of pore size engineering and an applied electric field on the controlled permeation of alkali metal atoms and ions across pristine and defect-containing h-BN sheets. <i>New Journal of Chemistry</i> , 2020, 44, 7891-7901.	1.4	4
1482	Continuous Electrochemical Desalination via a Viologen Redox Flow Reaction. <i>Journal of the Electrochemical Society</i> , 2020, 167, 083503.	1.3	20
1483	Membrane Technologies in Wastewater Treatment: A Review. <i>Membranes</i> , 2020, 10, 89.	1.4	607
1484	Enhancing the Chlorine Stability and Antifouling Properties of Thin-Film Composite Reverse Osmosis Membranes via Surface Grafting <i>L</i> -Arginine-Functionalized Polyvinyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10882-10893.	1.8	19
1485	High-performance polyamide nanofiltration membrane with arch-bridge structure on a highly hydrated cellulose nanofiber support. <i>Science China Materials</i> , 2020, 63, 2570-2581.	3.5	35
1486	Latest developments of models and calculation schemes for the quantitative analysis of the physical properties of polymers. <i>Physics-Uspokhi</i> , 2020, 63, 162-191.	0.8	4
1487	Aquafoldmer-Based Aquaporin-like Synthetic Water Channel. <i>Journal of the American Chemical Society</i> , 2020, 142, 10050-10058.	6.6	71
1488	Atmospheric Water Harvesting: A Review of Material and Structural Designs. , 2020, 2, 671-684.		274
1489	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. <i>Environmental Science & Technology</i> , 2020, 54, 6978-6986.	4.6	123
1490	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. <i>Environmental Science & Technology</i> , 2020, 54, 7715-7724.	4.6	63

#	ARTICLE	IF	CITATIONS
1491	New class of composite anion exchange membranes based on Quaternized poly (phenylene oxide) and functionalized boron nitride. <i>Colloids and Interface Science Communications</i> , 2020, 36, 100265.	2.0	21
1492	A review on Spirulina: alternative media for cultivation and nutritive value as an aquafeed. <i>Reviews in Aquaculture</i> , 2020, 12, 2371-2395.	4.6	50
1493	Comparative impact of SiO_2 and TiO_2 nanofillers on the performance of thin-film nanocomposite membranes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49382.	1.3	16
1494	Technical and economic feasibility of the concurrent desalination and boron removal (CDBR) process. <i>Desalination</i> , 2020, 486, 114474.	4.0	18
1495	Thin film composite membranes: Does the porous support truly have negligible resistance?. <i>Journal of Membrane Science</i> , 2020, 609, 118207.	4.1	9
1496	Influence of water content on alkali metal chloride transport in cross-linked Poly(ethylene glycol) diacrylate.2. Ion diffusion. <i>Polymer</i> , 2020, 192, 122316.	1.8	21
1497	Fluoride occurrence in United States groundwater. <i>Science of the Total Environment</i> , 2020, 732, 139217.	3.9	55
1498	Novel energy-efficient electro dialysis system for continuous brackish water desalination: Innovative stack configurations and optimal inflow modes. <i>Water Research</i> , 2020, 179, 115847.	5.3	24
1499	Pore wetting in membrane distillation treatment of municipal wastewater desalination brine and its mitigation by foam fractionation. <i>Chemosphere</i> , 2020, 257, 127214.	4.2	32
1500	Long-term intermittent operation of a full-scale BWRO desalination plant. <i>Desalination</i> , 2020, 489, 114526.	4.0	40
1501	Energy consumption in membrane capacitive deionization and comparison with reverse osmosis. <i>Desalination</i> , 2020, 488, 114383.	4.0	64
1502	Performance Analysis and Treatment Technologies of Reverse Osmosis Plant – A case study. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020, 2, 100007.	2.9	11
1503	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.	4.1	12
1504	Graphene Oxide-Tuned MoS_2 with an Expanded Interlayer for Efficient Hybrid Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9690-9697.	3.2	50
1505	Progress in Capacitive Deionization for Desalination of Brackish Water: A Materials Perspective. <i>ACS Symposium Series</i> , 2020, , 91-113.	0.5	1
1506	Recent trends and research strategies for treatment of water and wastewater in India. , 2020, , 139-168.		1
1507	Synthetic polymer-based membranes for desalination. , 2020, , 23-38.		2
1508	Comparison of different pretreatment methods for pressure retarded osmosis (PRO) membrane in bench-scale and pilot-scale systems. <i>Desalination</i> , 2020, 496, 114528.	4.0	16

#	ARTICLE	IF	CITATIONS
1509	A critical review of the application of electromagnetic fields for scaling control in water systems: mechanisms, characterization, and operation. <i>Npj Clean Water</i> , 2020, 3, .	3.1	51
1510	Antiscalants in RO membrane scaling control. <i>Water Research</i> , 2020, 183, 115985.	5.3	89
1511	Membrane desalination and water re-use for agriculture: State of the art and future outlook. <i>Desalination</i> , 2020, 491, 114559.	4.0	75
1512	Functionalized electrospun nanofiber membranes for water treatment: A review. <i>Science of the Total Environment</i> , 2020, 739, 139944.	3.9	150
1513	Antibacterial Thin Film Composite Polyamide Membranes Prepared by Sequential Interfacial Polymerization. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000114.	1.7	13
1514	Molecular Understanding of Ion Effect on Polyzwitterion Conformation in an Aqueous Environment. <i>Langmuir</i> , 2020, 36, 7648-7657.	1.6	10
1515	Environmental impact of desalination processes: Mitigation and control strategies. <i>Science of the Total Environment</i> , 2020, 740, 140125.	3.9	126
1516	Brackish water desalination using reverse osmosis and capacitive deionization at the water-energy nexus. <i>Water Research</i> , 2020, 183, 116064.	5.3	123
1517	Biofilms in membrane systems for drinking water production. , 2020, , 157-177.		0
1518	Scope and Limitations of Modelling, Simulation, and Optimisation of a Spiral Wound Reverse Osmosis Process-Based Water Desalination. <i>Processes</i> , 2020, 8, 573.	1.3	20
1519	Biofouling control by phosphorus limitation strongly depends on the assimilable organic carbon concentration. <i>Water Research</i> , 2020, 183, 116051.	5.3	22
1520	Seawater Desalination Using MOF-Incorporated Cu-Based Alginate Beads without Energy Consumption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16319-16326.	4.0	48
1521	Hybrid renewable energy systems for desalination. <i>Applied Water Science</i> , 2020, 10, 1.	2.8	104
1522	Electrospun filtration membranes for environmental remediation. , 2020, , 309-341.		3
1523	Gas transport properties of PDMS-coated reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 604, 118009.	4.1	12
1524	Fabrication of a Bi ₂ O ₃ Surface-Modified Polyvinylidene Fluoride Membrane via an Ultraviolet Photografting Method: Improving Hydrophilicity and Degree of Acrylic Acid Grafting. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6580-6588.	1.8	7
1525	Exploring the Operation Factors that Influence Performance of a Spiral-Wound Forward Osmosis Membrane Process for Scale-up Design. <i>Membranes</i> , 2020, 10, 53.	1.4	4
1526	A review on graphene-based materials for removal of toxic pollutants from wastewater. <i>Soft Materials</i> , 2020, 18, 297-322.	0.8	22

#	ARTICLE	IF	CITATIONS
1527	The relative insignificance of advanced materials in enhancing the energy efficiency of desalination technologies. <i>Energy and Environmental Science</i> , 2020, 13, 1694-1710.	15.6	206
1528	Desalination Performance and Fouling Mechanism of Capacitive Deionization: Effects of Natural Organic Matter. <i>Journal of the Electrochemical Society</i> , 2020, 167, 043501.	1.3	6
1529	Soil Water-Salt Dynamics and Maize Growth as Affected by Cutting Length of Topsoil Incorporation Straw under Brackish Water Irrigation. <i>Agronomy</i> , 2020, 10, 246.	1.3	6
1530	AM fungi enhance the function of ecological floating bed in the treatment of saline industrial wastewater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 16656-16667.	2.7	5
1531	Sustainable production of bio-based chemicals and polymers via integrated biomass refining and bioprocessing in a circular bioeconomy context. <i>Bioresource Technology</i> , 2020, 307, 123093.	4.8	104
1532	Removal of phosphate at low concentration from water by porous PVA/Al ₂ O ₃ composites. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 345-354.	1.2	10
1533	Brine Management in Reverse Osmosis Desalination: A UAE Perspective. , 2020, , .		5
1534	Predicting and Enhancing the Ion Selectivity in Multi-Ion Capacitive Deionization. <i>Langmuir</i> , 2020, 36, 8476-8484.	1.6	15
1535	Vertically aligned carbon nanotubes (VACNT) surfaces coated with polyethylene for enhanced dew harvesting. <i>Diamond and Related Materials</i> , 2020, 107, 107837.	1.8	7
1536	Removal of pathogens by ultrafiltration from sea water. <i>Environment International</i> , 2020, 142, 105809.	4.8	27
1537	Facile Fabrication of High-Performance Thin Film Nanocomposite Desalination Membranes Imbedded with Alkyl Group-Capped Silica Nanoparticles. <i>Polymers</i> , 2020, 12, 1415.	2.0	18
1538	Electrode materials for capacitive deionization: A review. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114416.	1.9	89
1539	Flow field in fouling spiral wound reverse osmosis membrane modules using MRI velocimetry. <i>Desalination</i> , 2020, 491, 114508.	4.0	13
1540	Recent progress on the utilization of waste heat for desalination: A review. <i>Energy Conversion and Management</i> , 2020, 221, 113105.	4.4	133
1541	Evaluation of groundwater quality and reverse osmosis water treatment plants in the endemic areas of Chronic Kidney Disease of Unknown Etiology (CKDu) in Sri Lanka. <i>Science of the Total Environment</i> , 2020, 745, 140716.	3.9	22
1542	On the aerodynamic fog collection efficiency of fog water collectors via three-dimensional numerical simulations. <i>Atmospheric Research</i> , 2020, 245, 105123.	1.8	19
1543	Membrane-Based Processes Used in Municipal Wastewater Treatment for Water Reuse: State-Of-The-Art and Performance Analysis. <i>Membranes</i> , 2020, 10, 131.	1.4	55
1544	Surface modification of reverse osmosis membranes by grafting of polyamidoamine dendrimer containing graphene oxide nanosheets for desalination improvement. <i>Desalination</i> , 2020, 491, 114442.	4.0	53

#	ARTICLE	IF	CITATIONS
1545	Desalination of high salinity brackish water by an NF-RO hybrid system. <i>Desalination</i> , 2020, 491, 114445.	4.0	45
1546	Reusability of brilliant green dye contaminated wastewater using corncob biochar and <i>Brevibacillus parabrevis</i> : hybrid treatment and kinetic studies. <i>Bioengineered</i> , 2020, 11, 743-758.	1.4	34
1547	Hierarchically yolk-shell porous carbon sphere as an electrode material for high-performance capacitive deionization. <i>Electrochimica Acta</i> , 2020, 354, 136590.	2.6	24
1548	The techno-economic case for coupling advanced spacers to high-permeance RO membranes for desalination. <i>Desalination</i> , 2020, 491, 114534.	4.0	22
1549	Water desalination of a new three-dimensional covalent organic framework: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16978-16984.	1.3	35
1550	Fabrication of polyamide thin film nanocomposite reverse osmosis membrane incorporated with a novel graphite-based carbon material for desalination. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49030.	1.3	7
1552	Capillary-driven desalination in a synthetic mangrove. <i>Science Advances</i> , 2020, 6, eaax5253.	4.7	47
1553	Synthesis and Characterization of New Schiff Base/Thiol-Functionalized Mesoporous Silica: An Efficient Sorbent for the Removal of Pb(II) from Aqueous Solutions. <i>Processes</i> , 2020, 8, 246.	1.3	9
1554	A concise review on performance improvement of solar stills. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	17
1555	Adsorption of heavy metal ions by various low-cost adsorbents: a review. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 342-379.	1.8	273
1556	Fundamental Limits of the Dew-Harvesting Technology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020, 24, 43-52.	1.4	31
1557	Using excess natural gas for reverse osmosis-based flowback water treatment in US shale fields. <i>Energy</i> , 2020, 196, 117145.	4.5	10
1558	The challenges of reverse osmosis desalination: solutions in Jordan. <i>Water International</i> , 2020, 45, 112-124.	0.4	15
1559	Efficiency evaluation of reverse osmosis desalination plant using hybridized multilayer perceptron with particle swarm optimization. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15278-15291.	2.7	56
1560	Modelling of Conductive Nanoporous Membranes with Switchable Ionic Selectivity. <i>Membranes and Membrane Technologies</i> , 2020, 2, 10-19.	0.6	8
1561	Advanced supercritical water-based process concepts for treatment and beneficial reuse of brine in oil/gas production. <i>Desalination</i> , 2020, 481, 114334.	4.0	9
1562	Evaluating electrocoagulation pretreatment prior to reverse osmosis system for simultaneous scaling and colloidal fouling mitigation: Application of RSM in performance and cost optimization. <i>Journal of Water Process Engineering</i> , 2020, 35, 101201.	2.6	20
1563	Carbon nanotube-based adsorbents for the removal of dyes from waters: A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 605-629.	8.3	152

#	ARTICLE	IF	CITATIONS
1564	Nitrogen and sulfur co-doped NaTi ₂ (PO ₄) ₃ /hole graphene composite as high-performance electrosorption electrodes for hybrid capacitive deionization. <i>Journal of Materials Science</i> , 2020, 55, 6017-6029.	1.7	23
1565	Flexible and Robust Polyaniline Composites for Highly Efficient and Durable Solar Desalination. <i>ACS Applied Energy Materials</i> , 2020, 3, 2634-2642.	2.5	73
1566	Resonant energy transfer enhances solar thermal desalination. <i>Energy and Environmental Science</i> , 2020, 13, 968-976.	15.6	33
1567	Effect of ultrasonication parameters on forward osmosis performance of thin film composite polyamide membranes prepared with ultrasound-assisted interfacial polymerization. <i>Journal of Membrane Science</i> , 2020, 599, 117834.	4.1	26
1568	Biodiversity and ecology of microorganisms in high pressure membrane filtration systems. <i>Water Research</i> , 2020, 172, 115511.	5.3	29
1569	Triple-Layer Nanocomposite Membrane Prepared by Electrospinning Based on Modified PES with Carbon Nanotubes for Membrane Distillation Applications. <i>Membranes</i> , 2020, 10, 15.	1.4	40
1570	CO ₂ utilization: Turning greenhouse gas into fuels and valuable products. <i>Journal of Environmental Management</i> , 2020, 260, 110059.	3.8	101
1571	Simultaneous rational design of ion separation membranes and processes. <i>Journal of Membrane Science</i> , 2020, 600, 117860.	4.1	29
1572	Fouling properties of reverse osmosis membranes along the feed channel in an industrial-scale system for wastewater reclamation. <i>Science of the Total Environment</i> , 2020, 713, 136673.	3.9	32
1573	Cost analysis of forward osmosis and reverse osmosis in a case study. , 2020, , 305-324.		3
1574	COD removal from industrial spent caustic wastewater: A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103678.	3.3	41
1575	Graphene Oxide Incorporated Forward Osmosis Membranes With Enhanced Desalination Performance and Chlorine Resistance. <i>Frontiers in Chemistry</i> , 2019, 7, 877.	1.8	22
1576	Coupling membrane filtration and wet air oxidation for advanced wastewater treatment: Performance at the pilot scale and process intensification potential. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 969-978.	0.9	6
1577	Simplified Prediction of Ion Removal in Capacitive Deionization of Multi-Ion Solutions. <i>Langmuir</i> , 2020, 36, 1338-1344.	1.6	24
1578	System-scale modeling and membrane structure parameter optimization for solar-powered sweeping gas membrane distillation desalination system. <i>Journal of Cleaner Production</i> , 2020, 253, 119968.	4.6	18
1579	Ion transfer modeling based on Nernst-Planck theory for saline water desalination during electro dialysis process. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2410.	0.8	11
1580	Emerging thin-film nanocomposite (TFN) membranes for reverse osmosis: A review. <i>Water Research</i> , 2020, 173, 115557.	5.3	230
1581	The effect of long-term brine discharge from desalination plants on benthic foraminifera. <i>PLoS ONE</i> , 2020, 15, e0227589.	1.1	24

#	ARTICLE	IF	CITATIONS
1582	Impact of Soft Segment Size on Structural and Permeation Properties of Polyurethane Membranes. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1944-1953.	2.4	7
1583	Toward a Sustainable Decentralized Water Supply: Review of Adsorption Desorption Desalination (ADD) and Current Technologies: Saudi Arabia (SA) as a Case Study. <i>Water (Switzerland)</i> , 2020, 12, 1111.	1.2	28
1584	Emerging investigator series: membrane distillation and high salinity: analysis and implications. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1538-1552.	1.2	14
1585	Hydraulic Energy Generation for RO (Reverse Osmosis) from PRO (Pressure Retarded Osmosis). , 2020, , .		0
1586	Novel thin-film reverse osmosis membrane with MXene Ti3C2T embedded in polyamide to enhance the water flux, anti-fouling and chlorine resistance for water desalination. <i>Journal of Membrane Science</i> , 2020, 603, 118036.	4.1	90
1587	Membrane Processes for Resource Recovery from Anaerobically Digested Livestock Manure Effluent: Opportunities and Challenges. <i>Current Pollution Reports</i> , 2020, 6, 123-136.	3.1	18
1588	Reverse osmosis and forward osmosis in desalination membrane systems. , 2020, , 281-303.		2
1589	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. <i>Chinese Chemical Letters</i> , 2020, 31, 2539-2548.	4.8	103
1590	Thin-film nanocomposite membranes incorporated with UiO-66-NH ₂ nanoparticles for brackish water and seawater desalination. <i>Journal of Membrane Science</i> , 2020, 604, 118039.	4.1	116
1591	Complexation between dissolved silica and alginate molecules: Implications for reverse osmosis membrane fouling. <i>Journal of Membrane Science</i> , 2020, 605, 118109.	4.1	35
1592	Understanding and optimization of thin film nanocomposite membranes for reverse osmosis with machine learning. <i>Journal of Membrane Science</i> , 2020, 606, 118135.	4.1	71
1593	Dual-Functional Nanofiltration Membranes Exhibit Multifaceted Ion Rejection and Antifouling Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19944-19954.	4.0	16
1594	Effects of Gamma Irradiation on Organic Membrane Materials. <i>Nuclear Technology</i> , 2020, 206, 1909-1918.	0.7	3
1595	Synthesis of acid treated carbonized mandarin peel for purification of copper. <i>Water Practice and Technology</i> , 2020, 15, 460-471.	1.0	8
1596	Probing protein rejection behavior of blended PES-based flat-sheet ultrafiltration membranes: A density functional theory (DFT) study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 238, 118399.	2.0	18
1597	Water desalination performance of h-BN and optimized charged graphene membranes. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	14
1598	Fouling behavior of marine organic matter in reverse osmosis membranes of a real-scale seawater desalination plant in South Korea. <i>Desalination</i> , 2020, 485, 114305.	4.0	21
1599	Reverse osmosis modeling, simulation, and optimization. , 2020, , 187-206.		0

#	ARTICLE	IF	CITATIONS
1600	Multifunctional ion exchange pretreatment driven by carbon dioxide for enhancing reverse osmosis recovery during impaired water reuse. <i>Desalination</i> , 2020, 485, 114459.	4.0	12
1601	Enhanced simultaneous removal of nitrogen, phosphorous, hardness, and methylisothiazolinone from reverse osmosis concentrate by suspended-solid phase cultivation of <i>Scenedesmus</i> sp. LX1. <i>Environment International</i> , 2020, 139, 105685.	4.8	9
1602	Free-standing, thin-film, symmetric membranes: Next-generation membranes for engineered osmosis. <i>Journal of Membrane Science</i> , 2020, 607, 118145.	4.1	14
1603	Understanding the Roughness-Fouling Relationship in Reverse Osmosis: Mechanism and Implications. <i>Environmental Science & Technology</i> , 2020, 54, 5288-5296.	4.6	65
1604	How to coordinate the trade-off between water permeability and salt rejection in nanofiltration?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8831-8847.	5.2	162
1605	Prediction of capital cost of ro based desalination plants using machine learning approach. <i>E3S Web of Conferences</i> , 2020, 158, 06001.	0.2	6
1606	Water Treatment: Are Membranes the Panacea?. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 559-585.	3.3	57
1607	Sustainable fertilizer-drawn forward osmosis for the vegetable industry in reducing liquor from vegetable waste. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 388-396.	1.2	4
1608	A Brief Review on High-Performance Capacitive Deionization Enabled by Intercalation Electrodes. <i>Global Challenges</i> , 2021, 5, 2000054.	1.8	26
1609	Novel reverse osmosis membranes incorporated with Co-Al layered double hydroxide (LDH) with enhanced performance for brackish water desalination. <i>Desalination</i> , 2021, 498, 114740.	4.0	45
1610	Zwitterionic coating on thin-film composite membranes to delay gypsum scaling in reverse osmosis. <i>Journal of Membrane Science</i> , 2021, 618, 118568.	4.1	58
1611	Effect of Fe ²⁺ ions on gypsum precipitation during bulk crystallization of reverse osmosis concentrates. <i>Chemosphere</i> , 2021, 263, 127866.	4.2	16
1612	High-flux PVDF/PVP nanocomposite ultrafiltration membrane incorporated with graphene oxide nanoribbons with improved antifouling properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49718.	1.3	48
1613	Simulation and optimization of hybrid green energy systems for desalination purposes. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13515.	1.3	8
1614	Ammonia removal from low-strength municipal wastewater by powdered resin combined with simultaneous recovery as struvite. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	9
1615	Renewable energy powered membrane technology: System resilience under solar irradiance fluctuations during the treatment of fluoride-rich natural waters by different nanofiltration/reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021, 617, 118452.	4.1	31
1617	Immobilized algae-based treatment of herbicide-contaminated groundwater. <i>Water Environment Research</i> , 2021, 93, 263-273.	1.3	6
1618	Cellulose triacetate/LUDOX-SiO ₂ nanocomposite for synthesis of pervaporation desalination membranes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50000.	1.3	11

#	ARTICLE	IF	CITATIONS
1619	Electrode degradation mechanisms in capacitive deionisation. <i>Desalination</i> , 2021, 497, 114622.	4.0	7
1620	A thermally engineered polydopamine and bacterial nanocellulose bilayer membrane for photothermal membrane distillation with bactericidal capability. <i>Nano Energy</i> , 2021, 79, 105353.	8.2	68
1621	Cost Comparison of Capacitive Deionization and Reverse Osmosis for Brackish Water Desalination. <i>ACS ES&T Engineering</i> , 2021, 1, 261-273.	3.7	50
1622	Superamphiphilic zwitterionic block copolymer surfactant-assisted fabrication of polyamide thin-film composite membrane with highly enhanced desalination performance. <i>Journal of Membrane Science</i> , 2021, 618, 118677.	4.1	23
1623	Application of fouling index for forward osmosis hybrid system: A pilot demonstration. <i>Journal of Membrane Science</i> , 2021, 617, 118624.	4.1	10
1624	Desalination process using humidification–dehumidification technique: A detailed review. <i>International Journal of Energy Research</i> , 2021, 45, 3698-3749.	2.2	41
1625	Synergistic inhibition effect and mechanism of polycation and polyanion on colloidal silica. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125701.	2.3	9
1626	Real-time monitoring of calcium sulfate scale removal from RO desalination membranes using Raman spectroscopy. <i>Desalination</i> , 2021, 497, 114736.	4.0	11
1627	Role of dissolved air flotation (DAF) and liquid ferrate on mitigation of algal organic matter (AOM) during algal bloom events in RO desalination. <i>Separation and Purification Technology</i> , 2021, 256, 117795.	3.9	21
1628	A comprehensive review of saline effluent disposal and treatment: conventional practices, emerging technologies, and future potential. <i>Journal of Water Reuse and Desalination</i> , 2021, 11, 33-65.	1.2	40
1629	Plasticizer-assisted interfacial polymerization for fabricating advanced reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021, 619, 118788.	4.1	17
1630	Ion-Exchange Materials for Membrane Capacitive Deionization. <i>ACS ES&T Water</i> , 2021, 1, 217-239.	2.3	56
1631	Process improvement of sea water reverse osmosis (SWRO) and subsequent decarbonization. <i>Desalination</i> , 2021, 499, 114791.	4.0	33
1632	New insights into tailoring polyamide structure for fabricating highly permeable reverse osmosis membranes. <i>Desalination</i> , 2021, 499, 114840.	4.0	18
1633	Porous evaporators with special wettability for low-grade heat-driven water desalination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 702-726.	5.2	60
1634	Design principles for enhanced up-scaling of flow-through capacitive deionization for water desalination. <i>Desalination</i> , 2021, 500, 114842.	4.0	18
1635	Micro-patterned membranes prepared via modified phase inversion: Effect of modified interface on water fluxes and organic fouling. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 490-504.	5.0	19
1636	Salinity Distribution in River Network of a Partially Mixed Estuary. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2021, 147, .	0.5	5

#	ARTICLE	IF	CITATIONS
1637	Production of reactive magnesia from desalination reject brine and its use as a binder. Journal of CO2 Utilization, 2021, 44, 101383.	3.3	45
1638	Electrochemical precipitation to reduce waste brine salinity. Desalination, 2021, 498, 114796.	4.0	13
1639	Can emerging membrane-based desalination technologies replace reverse osmosis?. Desalination, 2021, 500, 114844.	4.0	101
1640	Engineering antifouling reverse osmosis membranes: A review. Desalination, 2021, 499, 114857.	4.0	192
1641	Design and simulation of a heat-driven direct reverse osmosis device for seawater desalination powered by solar thermal energy. Applied Energy, 2021, 284, 116039.	5.1	14
1642	Offshore Freshened Groundwater in Continental Margins. Reviews of Geophysics, 2021, 59, e2020RG000706.	9.0	31
1643	Nanowires: Synthesis and Energy/Environmental Applications. Energy and Environmental Materials, 2021, 4, 544-561.	7.3	21
1644	Controllable synthesis of a hollow core-shell Co-Fe layered double hydroxide derived from Co-MOF and its application in capacitive deionization. Journal of Colloid and Interface Science, 2021, 585, 85-94.	5.0	54
1645	Evaluation of structural effects on the antiscaling performance of various graft cellulose-based antiscalants in RO membrane scaling control. Journal of Membrane Science, 2021, 620, 118893.	4.1	13
1646	Capacitive deionized hybrid systems for wastewater treatment and desalination: A review on synergistic effects, mechanisms and challenges. Chemical Engineering Journal, 2021, 417, 128129.	6.6	32
1647	Synergistic control of membrane biofouling using linoleic acid and sodium hypochlorite. Chemosphere, 2021, 268, 128802.	4.2	8
1649	Performance enhancement of nanofiltration membranes via surface modification with a novel acylation reagent. Journal of Applied Polymer Science, 2021, 138, 50315.	1.3	2
1650	Three-layered hollow fiber (HF) membrane and its modification to enhance wetting resistance for membrane distillation (MD). Environmental Technology and Innovation, 2021, 21, 101227.	3.0	3
1651	Different roles of aqueous and organic additives in the morphology and performance of polyamide thin-film composite membranes. Chemical Engineering Research and Design, 2021, 165, 1-11.	2.7	13
1652	Grafting of zwitterion polymer on polyamide nanofiltration membranes via surface-initiated RAFT polymerization with improved antifouling properties as a new strategy. Separation and Purification Technology, 2021, 254, 117605.	3.9	32
1653	Inland desalination. , 2021, , 871-918.		11
1654	Environmental Remediation Through Carbon Based Nano Composites. Green Energy and Technology, 2021, , .	0.4	10
1655	Solar-driven evaporators for water treatment: challenges and opportunities. Environmental Science: Water Research and Technology, 2021, 7, 24-39.	1.2	94

#	ARTICLE	IF	CITATIONS
1656	Boron removal with modified polyamide RO modules by cross-linked glutaric dialdehyde grafting. Journal of Chemical Technology and Biotechnology, 2021, 96, 465-473.	1.6	8
1657	Utilization of tea wastes for the removal of toxic dyes from polluted water—a review. Biomass Conversion and Biorefinery, 2023, 13, 1399-1415.	2.9	14
1658	Forward osmosis-based hybrid processes for water and wastewater treatment. , 2021, , 121-144.		1
1659	Application of biosurfactants and nanomaterials in the treatment of polluted water. , 2021, , 203-234.		0
1660	Responsive membranes for wastewater treatment. , 2021, , 673-697.		1
1661	Nanocellulose: A sustainable and renewable material for water and wastewater treatment. , 2021, , 93-109.		4
1662	Saturation time test of membrane to supply clean water using reverse osmosis with pressure stage in rejection. IOP Conference Series: Materials Science and Engineering, 0, 1011, 012044.	0.3	0
1663	Engineering of 3D Na _x CoO ₂ nanostructures for enhanced capacitive deionization: performance and mechanism. Environmental Science: Nano, 2021, 8, 657-665.	2.2	6
1664	Impact of pretreatment on RO membrane organic fouling: composition and adhesion of tertiary wastewater effluent organic matter. Environmental Science: Water Research and Technology, 2021, 7, 775-788.	1.2	7
1665	Energy, Exergy, and Thermo-Economic Analysis of Renewable Energy-Driven Polygeneration Systems for Sustainable Desalination. Processes, 2021, 9, 210.	1.3	25
1666	Energy Consumption of Brackish Water Desalination: Identifying the Sweet Spots for Electrodialysis and Reverse Osmosis. ACS ES&T Engineering, 2021, 1, 851-864.	3.7	81
1667	Preparation and characterization of epichlorohydrin treated Putranjiva roxburghii seeds as a novel adsorbent: removal of Ni(II) from the artificial and real electroplating wastewaters. Separation Science and Technology, 2021, 56, 2880-2894.	1.3	2
1668	Zero liquid discharge wastewater treatment technologies. , 2021, , 209-234.		2
1669	Groundwater Remediation of Volatile Organic Compounds Using Nanofiltration and Reverse Osmosis Membranes—a Field Study. Membranes, 2021, 11, 61.	1.4	10
1670	Nano-Porous Graphene as Free-Standing Membranes. Springer Series on Polymer and Composite Materials, 2021, , 43-86.	0.5	2
1671	Nanometals-Containing Polymeric Membranes for Purification Processes. Materials, 2021, 14, 513.	1.3	16
1672	Hybrid membrane technology: demand of present wastewater scenario. , 2021, , 385-402.		0
1673	Desalination of brackish groundwater to improve water quality and water supply. , 2021, , 559-575.		9

#	ARTICLE	IF	CITATIONS
1674	Measuring Biofouling Potential in SWRO Plants with a Flow-Cytometry-Based Bacterial Growth Potential Method. <i>Membranes</i> , 2021, 11, 76.	1.4	11
1675	Solvent transport properties of POSS nanocomposites. , 2021, , 405-419.		0
1676	Persistent Organic Pollutants (POPs): Sources, Types, Impacts, and Their Remediation. <i>Environmental and Microbial Biotechnology</i> , 2021, , 213-246.	0.4	4
1677	Emerging investigator series: toward the ultimate limit of seawater desalination with mesopelagic open reverse osmosis. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1212-1219.	1.2	1
1678	The industrial development of polymeric membranes and membrane modules for reverse osmosis and ultrafiltration. , 2021, , 1-12.		3
1679	Flexible modeling and control of capacitive-deionization processes through a linear-state-space dynamic Langmuir model. <i>Npj Clean Water</i> , 2021, 4, .	3.1	17
1680	Sustainability assessment and environmental impacts of water supply systems: a case study in Tampa Bay water supply system. <i>E3S Web of Conferences</i> , 2021, 308, 01010.	0.2	0
1681	A review of recent progress in polymeric electrospun nanofiber membranes in addressing safe water global issues. <i>RSC Advances</i> , 2021, 11, 9638-9663.	1.7	84
1682	Fundamentals and application of reverse osmosis membrane processes. , 2021, , 17-52.		3
1683	Molecular dynamics study of the pore formation in single layer graphene oxide by a thermal reduction process. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11831-11836.	1.3	4
1684	Experimental study on thermoelectric module's heating and cooling performance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1053, 012127.	0.3	0
1685	Euler's Numerical Method for Ions Rejection Reassessment of a Defect-Free Synthesized Nanofiltration Membrane with Ultrathin Titania Film as the Selective Layer. <i>Coatings</i> , 2021, 11, 184.	1.2	4
1686	A review of performance improvement strategies for graphene oxide-based and graphene-based membranes in water treatment. <i>Journal of Materials Science</i> , 2021, 56, 9545-9574.	1.7	52
1687	Crystallization of calcium carbonate from lithium-containing brines. <i>Journal of Crystal Growth</i> , 2021, 556, 125989.	0.7	4
1688	Partial Desalination of Saline Groundwater: Comparison of Nanofiltration, Reverse Osmosis and Membrane Capacitive Deionisation. <i>Membranes</i> , 2021, 11, 126.	1.4	6
1689	Saturation Time Characteristics of RO Membrane Skid to Clean Water Supply with Pressure Stage in Rejection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1053, 012133.	0.3	0
1690	Lignin-derived Porous and Microcrystalline Carbon for Flow-Electrode Capacitive Deionization. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210231.	0.5	10
1691	N-doped activated carbon with hierarchical pores for the efficient removal of perchlorate from water. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110892.	2.2	12

#	ARTICLE	IF	CITATIONS
1692	Thin-Film Nanocomposite Membranes Containing Water-Stable Zirconium Metal-Organic Cages for Desalination. , 2021, 3, 268-274.		44
1693	Novel Ramie Fabric-Based Draping Evaporator for Tunable Water Supply and Highly Efficient Solar Desalination. ACS Applied Materials & Interfaces, 2021, 13, 7200-7207.	4.0	37
1694	Effect of Varying Amount of Polyethylene Glycol (PEG-600) and 3-Aminopropyltriethoxysilane on the Properties of Chitosan based Reverse Osmosis Membranes. International Journal of Molecular Sciences, 2021, 22, 2290.	1.8	10
1695	Layer-by-Layer Coating of MK-40 Heterogeneous Membrane with Polyelectrolytes Creates Samples with Low Electrical Resistance and Weak Generation of H ⁺ and OH ⁻ Ions. Membranes, 2021, 11, 145.	1.4	7
1696	Ocean Thermal Energy Conversion and Other Uses of Deep Sea Water: A Review. Journal of Marine Science and Engineering, 2021, 9, 356.	1.2	27
1697	Multicomponent mass transport modeling of water desalination by reverse osmosis including ion pair formation. Journal of Chemical Physics, 2021, 154, 124501.	1.2	12
1698	In Situ Thermal and Electricity Utilization of Photovoltaic Devices by Membrane Distillation and Electrochemical Advanced Oxidation for Desalination and Degradation of Wastewater. Advanced Sustainable Systems, 2021, 5, 2000278.	2.7	9
1699	Frontiers of Membrane Desalination Processes for Brackish Water Treatment: A Review. Membranes, 2021, 11, 246.	1.4	38
1700	Experimental study of desalination and ion selection performance using electro-sorption technology with an activated carbon fiber electrode. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	1.2	0
1701	The System CaCl ₂ -H ₂ O: Thermodynamic Modeling and Flow Calorimetry Experiments at Elevated Temperatures and Pressures. Journal of Chemical & Engineering Data, 2021, 66, 1652-1664.	1.0	0
1702	An extensive review on chromium (vi) removal using natural and agricultural wastes materials as alternative biosorbents. Journal of Environmental Health Science & Engineering, 2021, 19, 1193-1207.	1.4	35
1703	Removal of antibiotic resistance genes from swine wastewater by membrane filtration treatment. Ecotoxicology and Environmental Safety, 2021, 210, 111885.	2.9	77
1704	Ultrafiltration for environmental safety in shellfish production: A case of bloom emergence. Water Science and Engineering, 2021, 14, 46-53.	1.4	4
1705	Radioactive waste processing using membranes: State of the art technology, challenges and perspectives. Separation and Purification Reviews, 2022, 51, 143-173.	2.8	20
1706	Green Approaches for Sustainable Development of Liquid Separation Membrane. Membranes, 2021, 11, 235.	1.4	20
1707	Current Status of the Effect of Seawater Ions on Copper Flotation: Difficulties, Opportunities, and Industrial Experience. Mineral Processing and Extractive Metallurgy Review, 2022, 43, 545-563.	2.6	14
1708	Effect of the Characteristic Properties of Membrane on Long-Term Stability in the Vacuum Membrane Distillation Process. Membranes, 2021, 11, 252.	1.4	8
1709	Research Progress on Zero Discharge and Resource Utilization of Industrial High-Salt Wastewater. Clean - Soil, Air, Water, 2021, 49, 2000410.	0.7	11

#	ARTICLE	IF	CITATIONS
1710	The Role of Membrane-Based Technologies in Environmental Treatment and Reuse of Produced Water. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	17
1711	Self-doped sulfonated polyaniline ultrafiltration membranes with enhanced chlorine resistance and antifouling properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50756.	1.3	9
1712	Bioinspired and biomimetic membranes for water purification and chemical separation: A review. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	26
1713	Crosslinked electrospun composite membranes of poly(vinyl alcohol) and poly(vinyl chloride): tunable mechanical properties, porosity and performance. <i>Polymer International</i> , 2021, 70, 1495-1507.	1.6	2
1714	Understanding the Enhanced Capacitive Desalination Performance of Spherical ZnCo ₂ O ₄ Electrode. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100125.	1.9	2
1715	Integrated system based on solar chimney and wind energy for hybrid desalination via reverse osmosis and multi-stage flash with brine recovery. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101080.	1.7	12
1716	Modelling the critical roles of zeta potential and contact angle on colloidal fouling with a coupled XDLVO - collision attachment approach. <i>Journal of Membrane Science</i> , 2021, 623, 119048.	4.1	39
1717	Characterization of PVDF/Graphene Nanocomposite Membranes for Water Desalination with Enhanced Antifungal Activity. <i>Water (Switzerland)</i> , 2021, 13, 1279.	1.2	29
1718	Kinetic and Isothermal Investigations of Cost-Effective Sorptive Elimination of Gentian Violet Dye from Water Using <i>Haplophragma adenophyllum</i> Biowaste. <i>Journal of Chemistry</i> , 2021, 2021, 1-12.	0.9	6
1719	REVERSE OSMOSIS TECHNOLOGIES FOR INDUSTRIAL WASTEWATER TREATMENT: STATE OF THE PROBLEM AND CONTROL OF MEMBRANE FOULING. <i>Вестник Сибирского государственного технического университета</i> , 2021, , 60-70.	0.0	1
1720	Permeation selectivity of pristine and vacancy defected hexagonal boron membranes for alkaline earth metal and ions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-12.	2.0	0
1721	Multiuse silicon hybrid polyurea-based polymer for highly effective removal of heavy metal ions from aqueous solution. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2925-2938.	1.8	19
1722	Fabrication, optimization, and performance of a novel double-skinned Al ₂ O ₃ membrane for heavy metal ions removal. <i>Journal of Membrane Science</i> , 2022, 648, 119848.	3.0	12
1723	High-Efficiency and Sustainable Desalination Using Thermo-regenerable MOF-808-EDTA: Temperature-Regulated Proton Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23833-23842.	4.0	26
1724	Energy and economic analysis for a desalination plant powered by municipal solid waste incineration and natural gas in Brazil. <i>Environment, Development and Sustainability</i> , 2022, 24, 1799-1826.	2.7	5
1725	Review on toxic metal ions removal by using activated carbon prepared from natural biomaterials. <i>Journal of Physics: Conference Series</i> , 2021, 1913, 012091.	0.3	2
1726	Eutectic freeze crystallization: application, process design and future potential. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 765, 012098.	0.2	0
1727	Charge-Gradient Hydrogels Enable Direct Zero Liquid Discharge for Hypersaline Wastewater Management. <i>Advanced Materials</i> , 2021, 33, e2100141.	11.1	37

#	ARTICLE	IF	CITATIONS
1728	Exploitation of seawater for cotton and polyester fabrics colouration. <i>Heliyon</i> , 2021, 7, e07059.	1.4	1
1729	Correlations for Concentration Polarization and Pressure Drop in Spacer-Filled RO Membrane Modules Based on CFD Simulations. <i>Membranes</i> , 2021, 11, 338.	1.4	14
1730	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. <i>Environmental Science & Technology</i> , 2021, 55, 6984-6994.	4.6	25
1731	Dynamic Modeling of Fouling in Reverse Osmosis Membranes. <i>Membranes</i> , 2021, 11, 349.	1.4	10
1732	A Dopamine/Tannic-Acid-Based Co-Deposition Combined with Phytic Acid Modification to Enhance the Anti-Fouling Property of RO Membrane. <i>Membranes</i> , 2021, 11, 342.	1.4	11
1734	Enhancing DCMD vapor flux of PVDF-HFP membrane with hydrophilic silica fibers. <i>Separation and Purification Technology</i> , 2021, 263, 118361.	3.9	11
1735	Solar-driven thermal-wind synergistic effect on laser-textured superhydrophilic copper foam architectures for ultrahigh efficient vapor generation. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	123
1736	An optimization framework for the design of reverse osmosis desalination plants under food-energy-water nexus considerations. <i>Desalination</i> , 2021, 503, 114937.	4.0	38
1737	Electrospun Nanostructured Membrane Engineering Using Reverse Osmosis Recycled Modules: Membrane Distillation Application. <i>Nanomaterials</i> , 2021, 11, 1601.	1.9	12
1738	Sustainable Desalination and Water Reuse. <i>Synthesis Lectures on Sustainable Development</i> , 2021, 2, 1-204.	0.2	4
1739	Recent advancements in practices related to desalination by means of nanotechnology. <i>Chemical Physics Impact</i> , 2021, 2, 100025.	1.7	21
1740	Selective Adsorption of Potassium in Seawater by CoHCF Thin Film Electrode and Its Electrochemical Desorption/Regeneration. <i>Materials</i> , 2021, 14, 3592.	1.3	1
1741	Selective electrochemical separation and recovery of calcium and magnesium from brine. <i>Separation and Purification Technology</i> , 2021, 264, 118416.	3.9	12
1742	Carbon Materials for Solar Water Evaporation and Desalination. <i>Small</i> , 2021, 17, e2007176.	5.2	186
1743	Distributed solar desalination by membrane distillation: current status and future perspectives. <i>Water Research</i> , 2021, 198, 117154.	5.3	50
1744	High-performance desalination of three-dimensional nitrogen-doped carbon framework reinforced Prussian blue in capacitive deionization. <i>Desalination</i> , 2021, 505, 114997.	4.0	40
1745	Analytical study of optimum operating conditions in semi-batch closed-circuit reverse osmosis (CCRO). <i>Separation and Purification Technology</i> , 2021, 264, 118421.	3.9	12
1746	Zwitterionic Ion-Selective Membranes with Tunable Subnanometer Pores and Excellent Fouling Resistance. <i>Chemistry of Materials</i> , 2021, 33, 4408-4416.	3.2	34

#	ARTICLE	IF	CITATIONS
1747	Thermodynamic analysis of gravity assisted solar-powered reverse osmosis unit for greenhouses situated in a depleted zone. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100990.	2.8	5
1748	Structure Dependent Water Transport in Membranes Based on Two-Dimensional Materials. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10917-10959.	1.8	12
1749	Selective membranes in water and wastewater treatment: Role of advanced materials. <i>Materials Today</i> , 2021, 50, 516-532.	8.3	106
1750	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlightâ€“Energyâ€“Water Nexus. <i>ACS Nano</i> , 2021, 15, 12535-12566.	7.3	220
1751	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. <i>Physics Reports</i> , 2022, 946, 1-94.	10.3	179
1752	Fixed-bed column dynamics of ultrasound and Na-functionalized diatomite to remove phosphate from water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 12441-12449.	2.7	6
1753	Enhancing anti-scaling resistances of aromatic polyamide reverse osmosis membranes using a new natural materials inhibitor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 164, 108404.	1.8	8
1754	Novel N-doped graphene enhanced ultrafiltration nano-porous polyvinylidene fluoride membrane with high permeability and stability for water treatment. <i>Separation and Purification Technology</i> , 2021, 267, 118622.	3.9	15
1755	Mechanisms of Silica Scale Formation on Organic Macromolecule-Coated Surfaces. <i>ACS ES&T Water</i> , 2021, 1, 1826-1836.	2.3	6
1756	Comparison of Energy Consumption of Osmotically Assisted Reverse Osmosis and Low-Salt-Rejection Reverse Osmosis for Brine Management. <i>Environmental Science & Technology</i> , 2021, 55, 10714-10723.	4.6	25
1757	Wettability Difference Induced Out-of-Plane Unidirectional Droplet Transport for Efficient Fog Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35079-35085.	4.0	9
1758	Epitaxially grown MOF membranes with photocatalytic bactericidal activity for biofouling mitigation in desalination. <i>Journal of Membrane Science</i> , 2021, 630, 119327.	4.1	20
1760	Controlling harmful algal blooms (HABs) by coagulation-flocculation-sedimentation using liquid ferrate and clay. <i>Chemosphere</i> , 2021, 274, 129676.	4.2	23
1761	Research on Design of the Safety Supervision System for Desalinated Seawater Entering Urban Water Supply Network. <i>Water (Switzerland)</i> , 2021, 13, 2017.	1.2	0
1762	Review of Remediation Solutions for Acid Mine Drainage Using the Modified Hill Framework. <i>Sustainability</i> , 2021, 13, 8118.	1.6	10
1763	Molecular insights into desalination performance of lamellar graphene membranes: Significant of hydrophobicity and interlayer spacing. <i>Journal of Molecular Liquids</i> , 2021, 333, 116024.	2.3	21
1764	Integration of membrane distillation as volume reduction technology for in-land desalination brines management: Pre-treatments and scaling limitations. <i>Journal of Environmental Management</i> , 2021, 289, 112549.	3.8	19
1765	In Situ Three-Dimensional Welded Nanofibrous Membranes for Robust Membrane Distillation of Concentrated Seawater. <i>Environmental Science & Technology</i> , 2021, 55, 11308-11317.	4.6	17

#	ARTICLE	IF	CITATIONS
1766	Enhanced Transpiration by Attached Microalgae-Simulated Plants for Zero-Discharge of Reverse Osmosis Concentrated Water (WROC). <i>Water (Switzerland)</i> , 2021, 13, 2058.	1.2	5
1767	Quantum mechanical study on physisorption of dissolved metal ions in seawater using cellulose, chitosan and chitin. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 2109-2120.	3.6	8
1768	An attributional life cycle assessment of microbial protein production: A case study on using hydrogen-oxidizing bacteria. <i>Science of the Total Environment</i> , 2021, 776, 145764.	3.9	42
1769	Limits of High Recovery Inland Desalination: Closed-Circuit Reverse Osmosis – a Viable Option?. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1359-1368.	0.4	1
1770	Nanopore-based desalination subject to simultaneously applied pressure gradient and gating potential. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 737-744.	5.0	8
1771	Tuning wettability and surface order of MWCNTs by functionalization for water desalination. <i>Desalination</i> , 2021, 508, 115049.	4.0	9
1772	In situ nanoporous structural characterization of asymmetric hollow fiber membranes for desalination using Raman spectroscopy. <i>Journal of Membrane Science</i> , 2021, 631, 119337.	4.1	4
1773	Anionic surfactant assisted copper hydroxide for toxic dye removal from wastewater. <i>Environmental Research</i> , 2021, 199, 111310.	3.7	4
1774	Remediation of water from per-/poly-fluoroalkyl substances (PFAS) – Challenges and perspectives. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105784.	3.3	53
1775	A comparative study of the effect of phase change material (paraffin wax) on volumetric and surface direct solar steam generation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 128, 253-260.	2.7	20
1776	Potential of Printed Electrodes for Electrochemical Impedance Spectroscopy (EIS): Toward Membrane Fouling Detection. <i>Advanced Electronic Materials</i> , 2021, 7, 2100043.	2.6	26
1777	High Permeance or High Selectivity? Optimization of System-Scale Nanofiltration Performance Constrained by the Upper Bound. <i>ACS ES&T Engineering</i> , 2022, 2, 377-390.	3.7	29
1778	Renewable energy based freshwater production utilizing reverse osmosis desalination. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-15.	1.2	0
1779	Influence of Solute Molecular Diameter on Permeability-Selectivity Tradeoff of Thin-Film Composite Polyamide Membranes in Aqueous Separations. <i>Water Research</i> , 2021, 201, 117311.	5.3	20
1780	Effect of minimal pre-treatment on reverse osmosis using surface water as a source. <i>Desalination</i> , 2021, 509, 115056.	4.0	24
1781	Performance and energy evaluation of compact multistage air gap membrane distillation system: An experimental investigation. <i>Separation and Purification Technology</i> , 2021, 268, 118594.	3.9	17
1782	High recovery, energy efficient wastewater desalination. <i>Journal of Membrane Science</i> , 2021, 631, 119317.	4.1	14
1783	Polyaniline-based adsorbents for aqueous pollutants removal: A review. <i>Chemical Engineering Journal</i> , 2021, 418, 129425.	6.6	108

#	ARTICLE	IF	CITATIONS
1784	Progress in Research and Application of Nanofiltration (NF) Technology for Brackish Water Treatment. <i>Membranes</i> , 2021, 11, 662.	1.4	27
1785	Does the Green Hydrogen Economy Have a Water Problem?. <i>ACS Energy Letters</i> , 2021, 6, 3167-3169.	8.8	91
1786	Desalination and environment: A critical analysis of impacts, mitigation strategies, and greener desalination technologies. <i>Science of the Total Environment</i> , 2021, 780, 146585.	3.9	132
1787	Electrochemical capacitive behaviors of carbon/titania composite prepared by Tween 80-assisted sol-gel process for capacitive deionization. <i>Desalination</i> , 2021, 512, 115131.	4.0	9
1788	Effectiveness and mechanisms of electromagnetic field on reverse osmosis membrane scaling control during brackish groundwater desalination. <i>Separation and Purification Technology</i> , 2022, 280, 119823.	3.9	9
1789	Resonant soft X-ray scattering in polymer science. <i>Journal of Polymer Science</i> , 2022, 60, 1199-1243.	2.0	27
1790	Calcium removal from stabilized human urine by air and CO ₂ bubbling. <i>Water Research</i> , 2021, 202, 117467.	5.3	14
1791	Solar Desalination via Multilayers of Transparent Photothermal Fe ₃ O ₄ @Cu ²⁺ /S Thin Films. <i>Energy Technology</i> , 2021, 9, 2100590.	1.8	7
1792	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle-Assisted Low-Temperature Multi-Effect Desalination Coupled With Mechanical Vapor Compression. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2022, 144, .	1.1	2
1793	Ozark Graphene Nanopore for Efficient Water Desalination. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11256-11263.	1.2	26
1794	Multibioinspired JANUS Membranes with Spatial Surface Refreshment for Enhanced Fog Collection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101212.	1.9	7
1795	Conceptual Design of a Sustainable Hybrid Desalination Process Using Liquefied Natural Gas Cold Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13559-13572.	3.2	5
1796	Electrochemical removal of amphoteric ions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
1797	Enhanced simultaneous removal of nitrate and perchlorate from groundwater by bioelectrochemical systems (BESs) with cathodic potential regulation. <i>Biochemical Engineering Journal</i> , 2021, 173, 108068.	1.8	16
1798	Flexible structural engineering of PPy-NiCo-LDH@Mxene for improved capacitive deionization and efficient hard water softening process. <i>Separation and Purification Technology</i> , 2022, 280, 119828.	3.9	42
1799	Fixed-bed column studies of phosphonate and phosphate adsorption on granular ferric hydroxide (GFH). <i>Chemical Engineering Research and Design</i> , 2021, 153, 301-310.	2.7	4
1800	Impacts of Feedwater Quality Change on the Oldest Continuously Operated Brackish-Water Reverse Osmosis Desalination Plant in the United States. <i>Water (Switzerland)</i> , 2021, 13, 2654.	1.2	2
1801	Exergy, exergoeconomic and multi-objective optimization of a clean hydrogen and electricity production using geothermal-driven energy systems. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25964-25983.	3.8	14

#	ARTICLE	IF	CITATIONS
1802	How far can membrane characteristic parameters bestow at the vacuum membrane distillation (VMD) performance: Modeling and simulation. <i>Separation Science and Technology</i> , 2022, 57, 1211-1233.	1.3	4
1803	Impact of pilot-scale PSF substrate surface and pore structural properties on tailoring seawater reverse osmosis membrane performance. <i>Journal of Membrane Science</i> , 2021, 633, 119395.	4.1	25
1804	Techno-economic comparison between forward osmosis (FO) and temperature-enhanced osmotic membrane distillation (T-OMD) in agricultural fertigation. <i>Journal of Water Process Engineering</i> , 2021, 43, 102216.	2.6	1
1805	Electro-desalination of saline solutions by multiwall carbon nanotube electrodes. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101328.	2.4	1
1806	Real-time computational imaging of reverse osmosis membrane scaling under intermittent operation. <i>Journal of Membrane Science</i> , 2021, 636, 119556.	4.1	6
1807	The effect of nanopores geometry on desalination of single-layer graphene-based membranes: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2021, 339, 116749.	2.3	12
1808	A critical review on the development and challenges of concentrated solar power technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101434.	1.7	34
1809	Comparative Performance and parametric study of solar still: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101541.	1.7	13
1810	Performance evaluation of a brackish water reverse osmosis pilot-plant desalination process under different operating conditions: Experimental study. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100134.	2.1	13
1811	Decentralized brackish water reverse osmosis desalination plant based on PV and pumped storage - Technical analysis. <i>Desalination</i> , 2021, 516, 115232.	4.0	15
1812	Boric acid removal with polyol-functionalized polyether membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119690.	4.1	4
1813	Boron and salt ion transport in electrically assisted reverse osmosis. <i>Journal of Membrane Science</i> , 2021, 637, 119639.	4.1	13
1814	Physico-chemical and biological treatment strategies for converting municipal wastewater and its residue to resources. <i>Chemosphere</i> , 2021, 282, 130881.	4.2	38
1815	Fabrication of defect-free thin-film nanocomposite (TFN) membranes for reverse osmosis desalination. <i>Desalination</i> , 2021, 516, 115230.	4.0	41
1816	Dissect the role of particle size through collision-attachment simulations for colloidal fouling of RO/NF membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119679.	4.1	13
1817	Osmotically enhanced reverse osmosis using hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119703.	4.1	6
1818	Cost effectiveness of conventionally and solar powered monovalent selective electrodialysis for seawater desalination in greenhouses. <i>Applied Energy</i> , 2021, 301, 117425.	5.1	18
1819	A pre-treatment concept for increasing the recovery ratio of coastline BWRO plants, while providing Mg ²⁺ in the product water. <i>Desalination</i> , 2021, 515, 115202.	4.0	7

#	ARTICLE	IF	CITATIONS
1820	Modeling and evaluating performance of full-scale reverse osmosis system in industrial water treatment plant. <i>Desalination</i> , 2021, 518, 115289.	4.0	16
1821	Dual-layer membranes with a thin film hydrophilic MOF/PVA nanocomposite for enhanced antiwetting property in membrane distillation. <i>Desalination</i> , 2021, 518, 115268.	4.0	29
1822	Worldwide research trends on desalination. <i>Desalination</i> , 2021, 519, 115305.	4.0	41
1823	Water and salt transport properties of pentiptycene-containing sulfonated polysulfones for desalination membrane applications. <i>Journal of Membrane Science</i> , 2021, 640, 119806.	4.1	9
1824	Desalinated brackish water with improved mineral composition using monovalent-selective nanofiltration followed by reverse osmosis. <i>Desalination</i> , 2021, 520, 115364.	4.0	23
1825	Novel strategy to enhance the desalination performance of flow-electrode capacitive deionization process via the assistance of electro-catalytic water splitting. <i>Separation and Purification Technology</i> , 2021, 279, 119753.	3.9	6
1826	Recycled reverse osmosis membranes for forward osmosis technology. <i>Desalination</i> , 2021, 519, 115312.	4.0	16
1827	Optimal sizing of stand-alone wind-powered seawater reverse osmosis plants without use of massive energy storage. <i>Applied Energy</i> , 2021, 304, 117888.	5.1	17
1828	Experimental investigation for treating the RO reject stream through capacitive deionization. <i>Separation and Purification Technology</i> , 2021, 276, 119261.	3.9	10
1829	Investigating the effect of PEG200 and two-dimensional h-BN on PVDF membrane performance for membrane distillation's crystallization. <i>Materials Today Chemistry</i> , 2021, 22, 100545.	1.7	3
1830	Effect of magnetic field on calcium - silica fouling and interactions in brackish water distribution systems. <i>Science of the Total Environment</i> , 2021, 798, 148900.	3.9	10
1831	Dehydrofluorinated poly(vinylidene fluoride-co-hexafluoropropylene) based crosslinked cation exchange membrane for brackish water desalination via electro-dialysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127576.	2.3	16
1832	Exploiting the Coandăf effect for wind-driven reciprocating RO desalination. <i>Energy</i> , 2022, 238, 121963.	4.5	5
1833	Solar-driven Ag@NH ₂ -MIL-125/PAES-CF ₃ -COOH tight reactive hybrid ultrafiltration membranes for high self-cleaning efficiency. <i>Journal of Membrane Science</i> , 2022, 641, 119866.	4.1	11
1834	Mesoporous zirconium pyrophosphate for the adsorption of fluoride from dilute aqueous solutions. <i>Chemical Engineering Journal</i> , 2022, 427, 132034.	6.6	12
1835	An Extended Randles Circuit and a Systematic Model-Development Approach for Capacitive Deionization. <i>Journal of the Electrochemical Society</i> , 2021, 168, 013502.	1.3	13
1836	Recent Advances in Graphene Oxide Membranes for Water desalination. <i>E3S Web of Conferences</i> , 2021, 308, 01023.	0.2	0
1837	Composite membrane: fabrication, characterization, and applications. , 2021, , 347-368.		2

#	ARTICLE	IF	CITATIONS
1838	Development and implementations of integrated osmosis system. , 2021, , 333-352.		0
1839	Carbon-Based Nanomaterial for Emerging Desalination Technologies: Electrodialysis and Capacitive Deionization. , 2021, , 411-411.		1
1840	Porous Silica Microspheres with Immobilized Titania Nanoparticles for In-Flow Solar-Driven Purification of Wastewater. <i>Global Challenges</i> , 2021, 5, 2000116.	1.8	20
1841	Modified magnetite adsorbent (Zr@La@Fe ₃ O ₄) for nitrilotrimethylenephosphonate (NTMP) removal and recovery from wastewater. <i>Journal of Cleaner Production</i> , 2021, 278, 123960.	4.6	15
1843	Making wastewater obsolete: Selective separations to enable circular water treatment. <i>Environmental Science and Ecotechnology</i> , 2021, 5, 100078.	6.7	35
1844	Diffusion and Transport of Molecules In Living Cells. <i>Simulation Foundations, Methods and Applications</i> , 2014, , 27-49.	0.8	3
1846	Stimuli-Responsive Membranes for Separations. <i>Polymers and Polymeric Composites</i> , 2019, , 491-508.	0.6	2
1847	Heavy Metals Removal Using Carbon Based Nanocomposites. <i>Green Energy and Technology</i> , 2021, , 249-274.	0.4	9
1848	Enhancing TFC membrane permeability by incorporating single-layer MSN into polyamide rejection layer. <i>Applied Surface Science</i> , 2020, 509, 145397.	3.1	6
1849	Pattern flow dynamics over rectangular Sharklet patterned membrane surfaces. <i>Applied Surface Science</i> , 2020, 514, 145961.	3.1	20
1850	Process intensification using a novel continuous U-shaped crystallizer for freeze desalination. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 153, 107970.	1.8	16
1851	Transport and structural properties of osmotic membranes in high-salinity desalination using cascading osmotically mediated reverse osmosis. <i>Desalination</i> , 2020, 479, 114335.	4.0	31
1852	Techno-economic-environmental optimization of a solid oxide fuel cell-gas turbine hybrid coupled with small-scale membrane desalination. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15828-15850.	3.8	21
1853	Environmental impact of emerging desalination technologies: A preliminary evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104099.	3.3	102
1854	Comparative study on pharmaceuticals adsorption in reclaimed water desalination concentrate using biochar: Impact of salts and organic matter. <i>Science of the Total Environment</i> , 2017, 601-602, 857-864.	3.9	89
1856	Water Recovery from Advanced Water Purification Facility Reverse Osmosis Concentrate by Photobiological Treatment Followed by Secondary Reverse Osmosis. <i>Environmental Science & Technology</i> , 2018, 52, 8588-8595.	4.6	50
1857	Derivation of the Theoretical Minimum Energy of Separation of Desalination Processes. <i>Journal of Chemical Education</i> , 2020, 97, 4361-4369.	1.1	50
1858	Enhanced Flocculation Efficiency in a High-Ionic-Strength Environment by the Aid of Anionic ABA Triblock Copolymers. <i>Langmuir</i> , 2020, 36, 1538-1551.	1.6	5

#	ARTICLE	IF	CITATIONS
1859	Challenges and Opportunities of Superhydrophobic/Superamphiphobic Coatings in Real Applications. RSC Smart Materials, 2016, , 209-243.	0.1	9
1860	Advances in surface modification techniques of reverse osmosis membrane over the years. Separation Science and Technology, 2019, 54, 293-310.	1.3	25
1861	High-performance sulfosuccinic acid cross-linked PVA composite pervaporation membrane for desalination. Environmental Technology (United Kingdom), 2019, 40, 312-320.	1.2	40
1862	Electro-osmotic instability of concentration enrichment in curved geometries for an aqueous electrolyte. Physical Review Fluids, 2020, 5, .	1.0	7
1863	Performances Analysis of the Reverse Osmosis Desalination Plant of Brackish Water Used for Irrigation: Case Study. American Journal of Applied Chemistry, 2013, 1, 43.	0.3	6
1864	Optimal Flow Rate Evaluation for Low Energy, High Efficiency Cleaning of Forward Osmosis (FO). Membrane Journal, 2019, 29, 339-347.	0.2	2
1865	The Four National Taps of Singapore: A Holistic Approach to Water Resources Management from Drainage to Drinking Water. Journal of Water Management Modeling, 0, , .	0.0	23
1866	Utilization of Punica granatum peel as an eco-friendly biosorbent for the removal of methylene blue dye from aqueous solution. Journal of Applied Biotechnology & Bioengineering, 2018, 5, .	0.0	14
1867	SALT TOLERANT PLANTS AS A VALUABLE RESOURCE FOR SUSTAINABLE FOOD PRODUCTION IN ARID AND SALINE COASTAL ZONES.. Acta Biologica Colombiana, 2020, 26, 116-126.	0.1	9
1868	Research into ion exchange softening of highly mineralized waters. Eastern-European Journal of Enterprise Technologies, 2016, 4, 4.	0.3	5
1869	Advancements in Technologies for Water Treatment. International Journal of ChemTech Research, 2018, 11, 260-276.	0.1	1
1870	A renewable, sustainable and low-cost adsorbent for ibuprofen removal. Water Science and Technology, 2021, 83, 111-122.	1.2	37
1873	Organic Matrix in Reverse Osmosis Concentrate: Composition and Treatment Alternatives. Current Organic Chemistry, 2017, 21, 1084-1097.	0.9	9
1874	Advanced membrane materials for desalination: carbon nanotube and graphene. Materials Research Foundations, 2017, , 322-342.	0.2	2
1876	Prototype and model of solar driven desalination plant in arid environment. Thermal Science, 2020, 24, 903-914.	0.5	3
1877	The Effects of Humic Acid Fouling on the Performane of Polyamide Composite Reverse Osmosis Membranes. Journal of MMIJ, 2016, 132, 123-128.	0.4	2
1878	Transboundary water resources â€œA comparative studyâ€: The lessons learnt to help solve the Nile basin water conflict. Limnological Review, 2019, 19, 3-14.	0.5	25
1879	Non-alcoholic beer production â€œ an overview. Polish Journal of Chemical Technology, 2018, 20, 32-38.	0.3	18

#	ARTICLE	IF	CITATIONS
1880	Design and Simulation of a Solar Energy System for Desalination of Brackish Water. <i>Environmental and Climate Technologies</i> , 2019, 23, 257-276.	0.5	4
1881	Use of Aquaporins to Achieve Needed Water Purity on the International Space Station for the Extravehicular Mobility Unit Space Suit System. , 2012, , .		3
1882	Cost analysis of seawater desalination using an integrated reverse osmosis system on a cruise ship. <i>Global Nest Journal</i> , 2015, 17, 389-396.	0.3	6
1883	Economic Design of Solar-Driven Membrane Distillation Systems for Desalination. <i>Membranes</i> , 2021, 11, 15.	1.4	9
1884	The Effect of Slurry Wet Mixing Time, Thermal Treatment, and Method of Electrode Preparation on Membrane Capacitive Deionisation Performance. <i>Processes</i> , 2021, 9, 1.	1.3	80
1885	Development of minimum-salinity feedwater for reduction of unit production cost of reverse-osmosis desalination plants. <i>Journal of Korea Water Resources Association</i> , 2016, 49, 431-438.	0.3	1
1887	Removal of Fluoride from Groundwater by Carbonised <i>>Punica granatum</i>; Carbon (â€œCPGCâ€) Bio-Adsorbent. <i>Journal of Geoscience and Environment Protection</i> , 2015, 03, 1-9.	0.2	9
1888	Soil Quality of a Semi-Arid Pasture Irrigated with Reverse Osmosis Wastewaterâ€”A Case Study from Northern New Mexico. <i>Journal of Water Resource and Protection</i> , 2015, 07, 1121-1130.	0.3	3
1889	Suggested Strategies in Water Treatment by Using Situ Pressure in Reverse Osmosis. <i>Open Journal of Geology</i> , 2015, 05, 367-373.	0.1	3
1891	Ultrasonic Degradation of Endocrine Disrupting Compounds in Seawater and Brackish Water. <i>Environmental Engineering Research</i> , 2011, 16, 137-148.	1.5	9
1892	Pretreatment in Reverse Osmosis Seawater Desalination: A Short Review. <i>Environmental Engineering Research</i> , 2011, 16, 205-212.	1.5	101
1893	Optimized Synthesis Conditions of Polyethersulfone Support Layer for Enhanced Water Flux for Thin Film Composite Membrane. <i>Environmental Engineering Research</i> , 2014, 19, 339-344.	1.5	16
1894	Optimization of chemical cleaning for reverse osmosis membranes with organic fouling using statistical design tools. <i>Environmental Engineering Research</i> , 2018, 23, 474-484.	1.5	12
1895	Inland Desalination: Potentials and Challenges. , 0, , .		3
1896	Beach Sand Filtration as Pre-Treatment for RO Desalination. <i>International Journal of Water Sciences</i> , 2012, , 1.	0.4	8
1897	Sustainable Water Technology and Water-energy Nexus. , 0, , .		2
1899	Removal of Aqueous Boron by Using Complexation of Boric Acid with Polyols: A Raman Spectroscopic Study. <i>Korean Chemical Engineering Research</i> , 2015, 53, 808-813.	0.2	2
1900	Recent advances in biomimetic surfaces inspired by creatures for fog harvesting. <i>New Journal of Chemistry</i> , 2021, 45, 21125-21150.	1.4	3

#	ARTICLE	IF	CITATIONS
1901	Insights on the Electrocatalytic Seawater Splitting at Heterogeneous Nickel-Cobalt Based Electrocatalysts Engineered from Oxidative Aniline Polymerization and Calcination. <i>Molecules</i> , 2021, 26, 5926.	1.7	11
1902	Enhancing chlorine resistance in polyamide membranes with surface & structure modification strategies. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 1199-1215.	1.0	3
1903	Stable Zr-Based Metal-Organic Framework Nanoporous Membrane for Efficient Desalination of Hypersaline Water. <i>Environmental Science & Technology</i> , 2021, 55, 14917-14927.	4.6	31
1904	An Introduction to Membrane-Based Systems for Dye Removal. <i>Sustainable Textiles</i> , 2022, , 1-22.	0.4	0
1905	Electrochemical degradation of emerging pollutants via laser-induced graphene electrodes. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100195.	2.4	16
1906	Voltage loss breakdown in desalination fuel cells. <i>Electrochemistry Communications</i> , 2021, 132, 107136.	2.3	8
1907	Biofouling of spiral wound membrane systems. <i>Water Intelligence Online</i> , 2011, 10, 9781780400990.	0.3	3
1908	Effects of Antiscalant on Inorganic Fouling in Seawater Reverse Osmosis Membrane Processes. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2011, 33, 677-685.	0.4	0
1909	Characteristics of Membrane Concentrate. <i>Springer Briefs in Molecular Science</i> , 2012, , 5-15.	0.1	0
1910	The Role of PSE Community in Meeting Sustainable Freshwater Demand of Tomorrow's World via Desalination. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 91-98.	0.3	2
1911	Use of Clays as Drilling Fluids and Filters. , 2013, , 173-183.		1
1912	Preparation of Inorganic/Organic Reverse Osmosis Composite Membrane and Its Performance for Desalination of Deep Ocean Water. <i>Textile Science and Engineering</i> , 2013, 50, 337-343.	0.4	0
1913	Water Appropriate Technologies. , 2014, , 35-56.		1
1914	Water Appropriate Technologies. , 2014, , 53-74.		3
1915	Temperature-Sensitive Polymers Adhered on FO Membrane as Drawing Agents. <i>Porrime</i> , 2014, 38, 626-631.	0.0	0
1916	Sustainability of Effective Use of Water Sources in Turkey. <i>Green Energy and Technology</i> , 2015, , 205-227.	0.4	3
1917	Membrane-Based Desalination. , 2015, , 1-2.		0
1918	Thermodynamical research of using solar energy for desalination of seawater. <i>Thermal Science</i> , 2015, 19, 1709-1721.	0.5	1

#	ARTICLE	IF	CITATIONS
1920	Design of a Water Reuse System Combined with a Fiber Filtration and Electrolysis. Journal of Environmental Science International, 2015, 24, 1385-1391.	0.0	0
1921	Assessment and Analysis of Coal Seam Gas Water Management Study for Water Resource Production 2. Prediction of Treatment Technology and Design of Co-treatment System. Journal of Environmental Science International, 2015, 24, 1629-1637.	0.0	1
1922	Removal Characteristics of Boron and Humic Acid by Pre-blending Seawater and Brackish Water Using UF-SWRO Hybrid Process in Pilot-scale Plant for Desalination. Daehan Hwan'gyeong Gonghag Hoeji, 2016, 38, 34-41.	0.4	0
1923	CẢng nghẢ»đ khẢ»mẢ»n hiẢ»đứ quẢ»đ cá»đứp nẢ»đ»c sinh hoẢ»đit cho cẢ»đứ cá»đứm đẢ»đn cẢ»đ nẢ»đng thẢ»đn Ầ»đng bẢ»đng sẢ»đng Cá»đứu Lờn Hoc = Journal of Science, 2016, 45, 33.	0.1	0
1924	Analysis of Effect on Freshwater Production of Vacuum Membrane Distillation Module according to Housing Leak. Journal of the Korean Society of Water and Wastewater, 2016, 30, 313-319.	0.3	0
1925	A study on reducing scale formation on the RO membrane using carbon dioxide. Journal of the Korean Society of Water and Wastewater, 2016, 30, 391-399.	0.3	0
1926	Kinetics Change of the R-134a Gas Hydrate Formation in Seawater with the Addition of Edible Surfactants. Clean Technology, 2016, 22, 154-160.	0.1	0
1927	The effect of backing layer for pro membranes and modules. Journal of the Korean Society of Water and Wastewater, 2016, 30, 553-559.	0.3	1
1928	UTILIZAẢ»đ ĐA FLUGEM DO BAGAẢ»đO DE CANA-DE-Ả»đẢ»đCAR ATIVADO COM CO2 COMO ELETRODO EM DEIONIZAẢ»đO CAPACITIVA. , 0, , .		0
1929	1 Desalination. Green Chemistry and Chemical Engineering, 2017, , 1-68.	0.0	2
1930	Passive Removal of Copper Ions and Salts from Water for Potable Use. Chronicle of the New Researcher, 2018, 3, 2.	0.0	1
1931	Optimal operation of seawater desalination system based on load rolling prediction. Computer Aided Chemical Engineering, 2018, 44, 1075-1080.	0.3	0
1932	The Factors Affecting the Performance of the FO-RO Hybrid System. , 0, , .		1
1934	Review of Water Quality Risk and Assessment Methods of Desalinated Seawater Supply. Journal of Water Resources Research, 2019, 08, 353-360.	0.1	1
1935	Small scale sea water treatment plant. International Journal of Agricultural Sciences, 2019, 15, 124-128.	0.0	0
1936	Technical Approaches for Desalination and Water Supplies for Drought. , 2019, , 2315-2335.		0
1937	Study on Water Quality Characteristics and Adjusting Target for Reverse Osmosis Desalination. Advances in Environmental Protection, 2019, 09, 350-357.	0.0	0
1938	Restoration of Membrane Performance for Damaged Reverse Osmosis Membranes through <i>in-situ</i> Healing. Membrane Journal, 2019, 29, 96-104.	0.2	0

#	ARTICLE	IF	CITATIONS
1940	Study on Feed and Reject Water Quality in Reverse Osmosis Systems. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 109-117.	0.4	0
1941	Combined Electrodialysis and Photo-Electro-Chlorination for Energy Efficient Control of Brine Water. Advances in Science, Technology and Innovation, 2020, , 79-82.	0.2	0
1942	Development of New Filter with Surface Modified MWCNTs. Journal of Power System Engineering, 2019, 23, 13-19.	0.4	1
1943	Compressed Air Energy Storage Driven by Wind Power Plant for Water Desalination Through Reverse Osmosis Process. Advances in Intelligent Systems and Computing, 2020, , 145-154.	0.5	0
1944	Efficiency of Graphene-Based Forward Osmosis Membranes. , 2020, , 309-334.		0
1945	A Summary of Factors Affecting Concrete Salt-Scaling Performance. ACI Materials Journal, 2020, 117, .	0.3	2
1946	Application of Quorum Sensing Inhibitors in Anti-biofouling Membranes. , 2020, , 335-341.		0
1947	Scope of Conventional Versus Advanced Technologies for the Control and Prevention of Emerging Contamination. Springer Transactions in Civil and Environmental Engineering, 2021, , 383-403.	0.3	0
1948	Effect of Polyvinyl Pyrrolidone on Polyvinyl Chloride-Graft-Acrylamide Membranes. Engineering and Technology Journal, 2020, 38, 1305-1315.	0.4	1
1949	Comparison of Desalination Technologies Using Renewable Energy Sources with Life Cycle, PESTLE, and Multi-Criteria Decision Analyses. Water (Switzerland), 2021, 13, 3023.	1.2	51
1950	Immobilization of Fe^{2+} -FeOOH nanomaterials on the basalt fiber as a novel porous composite to effectively remove phosphate from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 632, 127815.	2.3	8
1951	Injection of desalination brine into the saline part of the coastal aquifer; environmental and hydrological implications. Water Research, 2021, 207, 117820.	5.3	7
1952	Predictive suitability of renewable energy for desalination plants: the case of Gaziyurt region in northern Cyprus. Modeling Earth Systems and Environment, 2022, 8, 3657-3677.	1.9	9
1953	Performance of a Pilot Subsurface Flow Treatment Wetland System, Used for Arsenic Removal from Reverse Osmosis Concentrate, in the Municipality of Julimes, Chihuahua, Mexico. Ingenieria Y Universidad, 0, 24, .	0.5	2
1954	Dynamics and Model Research on the Electrosorption by Activated Carbon Fiber Electrodes. Water (Switzerland), 2021, 13, 62.	1.2	5
1955	Recent Trends in Membrane Processes for Water Purification of Brackish Water. Advances in Science, Technology and Innovation, 2021, , 39-57.	0.2	1
1956	Influences of support layer hydrophilicity on morphology and performances of polyamide thin-film composite membrane. Separation and Purification Technology, 2022, 281, 119884.	3.9	12
1957	Enhancing climate resilience of irrigated agriculture: A review. Journal of Environmental Management, 2022, 302, 114032.	3.8	29

#	ARTICLE	IF	CITATIONS
1958	Energy efficient vortex-enhanced water evaporation technology for concentrated brine management: Theory and process simulation evaluation. <i>Desalination</i> , 2022, 522, 115427.	4.0	5
1959	Brine desalination via pervaporation using kaolin-intercalated hydrolyzed polyacrylonitrile membranes. <i>Separation and Purification Technology</i> , 2022, 281, 119874.	3.9	13
1960	Comparative review of membrane-based desalination technologies for energy-efficient regeneration in liquid desiccant air conditioning of greenhouses. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111815.	8.2	18
1961	Performance and Mechanism of Chlorine Removal in Wastewater by Combination of CuSO ₄ and Zero-Valent Copper. <i>Minerals, Metals and Materials Series</i> , 2020, , 935-945.	0.3	0
1962	Reverse Osmosis Desalination: Performance And Challenges. , 2020, , 49-69.		0
1963	Novel Polysulfone and Related Sepiolite Nanocomposites for Water Desalination. , 2020, , 351-354.		1
1964	Reverse osmotic characteristics and mechanism of hydrogenated porous graphene. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 098201.	0.2	1
1965	Biofouling in RO Desalination Membranes. , 2020, , 269-283.		2
1966	Impact of Draw Solution Concentration on Forward Osmosis Process: A Simulation Study. , 2020, , .		0
1967	Precipitation to remove calcium ions from stabilized human urine as a pre-treatment for reverse osmosis. <i>Water Science and Technology</i> , 2021, 84, 3755-3768.	1.2	3
1968	A new automated model brings stability to finiteâ€element simulations of capacitive deionization. <i>Nano Select</i> , 2022, 3, 1021-1035.	1.9	10
1969	Experimental study of a pilot membrane desalination system: The effects of transmembrane pressure. <i>Materials Today: Proceedings</i> , 2020, 30, 970-975.	0.9	1
1970	Carbon nanotubes/activated carbon hybrid as a high-performance suspension electrode for the electrochemical desalination of wastewater. <i>Desalination</i> , 2022, 522, 115440.	4.0	26
1971	Hydrophobic fluorinated graphene templated molecular sieving for high efficiency seawater desalination. <i>Desalination</i> , 2022, 523, 115452.	4.0	24
1972	Optimization of ultrafiltration as pre-treatment for seawater RO desalination. <i>Desalination</i> , 2022, 524, 115478.	4.0	15
1973	The use of anti-scalants in gypsum scaling mitigation: Comparison with membrane surface modification and efficiency in combined reverse osmosis and membrane distillation. <i>Journal of Membrane Science</i> , 2022, 643, 120077.	4.1	10
1974	Analysis of Boron Removal for Reverse Osmosis, Ion Exchange, and Capacitive Deionization. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2021, 43, 654-663.	0.4	0
1975	Mineral Scaling on Reverse Osmosis Membranes: Role of Mass, Orientation, and Crystallinity on Permeability. <i>Environmental Science & Technology</i> , 2021, 55, 16110-16119.	4.6	9

#	ARTICLE	IF	CITATIONS
1976	Inland Desalination Brine Disposal: A Baseline Study from Southern California on Brine Transport Infrastructure and Treatment Potential. ACS ES&T Engineering, 2022, 2, 456-464.	3.7	7
1977	Marriage of membrane filtration and sulfate radical-advanced oxidation processes (SR-AOPs) for water purification: Current developments, challenges and prospects. Chemical Engineering Journal, 2022, 433, 133802.	6.6	39
1978	Solar-driven enhanced chemical adsorption and interfacial evaporation using porous graphene-based spherical composites. Chemosphere, 2022, 291, 133013.	4.2	6
1979	Adsorptive Removal of Copper (II) Ions from Aqueous Solution Using a Magnetite Nano-Adsorbent from Mill Scale Waste: Synthesis, Characterization, Adsorption and Kinetic Modelling Studies. Nanoscale Research Letters, 2021, 16, 168.	3.1	24
1980	Applications of bio-derived/bio-inspired materials in the field of interfacial solar steam generation. Nano Research, 2022, 15, 3122-3142.	5.8	19
1981	Reverse osmosis desalination systems powered by solar energy: Preheating techniques and brine disposal challenges – A detailed review. Energy Conversion and Management, 2022, 251, 114971.	4.4	75
1982	Recent advances of loose nanofiltration membranes for dye/salt separation. Separation and Purification Technology, 2022, 285, 120228.	3.9	131
1983	A review of nano-confined composite membranes fabricated inside the porous support. , 2021, 1, 100005.		10
1984	Photoresponsive macrocycles for selective binding and release of sulfate. Chemical Communications, 2021, 57, 13514-13517.	2.2	18
1985	Metal-Organic Frameworks/Polymer Composite Membranes. RSC Smart Materials, 2021, , 98-141.	0.1	0
1986	Application of computational fluid dynamics technique in membrane distillation processes. , 2022, , 161-208.		0
1987	Concentrating stabilized urine with reverse osmosis: How does stabilization method and pre-treatment affect nutrient recovery, flux, and scaling?. Water Research, 2022, 209, 117970.	5.3	25
1988	Comparison of the reverse osmosis membrane fouling behaviors of different types of water samples by modeling the flux change over time. Chemosphere, 2022, 289, 133217.	4.2	8
1989	Particle size distribution influence on capacitive deionization: Insights for electrode preparation. Desalination, 2022, 525, 115503.	4.0	17
1990	Gypsum scaling in membrane distillation: Impacts of temperature and vapor flux. Desalination, 2022, 525, 115499.	4.0	12
1991	A review on dendrimers in preparation and modification of membranes: progress, applications, and challenges. Materials Today Chemistry, 2022, 23, 100683.	1.7	13
1992	Construction of functionalized graphene separation membranes and their latest progress in water purification. Separation and Purification Technology, 2022, 285, 120301.	3.9	15
1993	Mechanistic insights into the selective mass-transport and fabrication of holey graphene-based membranes for water purification applications. Chemical Engineering Journal, 2022, 431, 134248.	6.6	17

#	ARTICLE	IF	CITATIONS
1994	Coupling of electromembrane processes with reverse osmosis for seawater desalination: Pilot plant demonstration and testing. <i>Desalination</i> , 2022, 526, 115541.	4.0	15
1995	Membrane-based indirect power generation technologies for harvesting salinity gradient energy - A review. <i>Desalination</i> , 2022, 525, 115485.	4.0	17
1996	Near-zero liquid discharge and reclamation process based on electrodialysis metathesis for high-salinity wastewater with high scaling potential. <i>Desalination</i> , 2022, 525, 115390.	4.0	18
1997	SUSTAINABILITY AND DEVELOPMENT OF AQUAPONICS SYSTEM: A REVIEW. <i>Earth Sciences Pakistan</i> , 2020, 4, 78-80.	0.0	2
1998	Energy, Environmental and Exergoeconomic Analysis and Optimization of a Solar Driven Nanofiltration-Multi Effect Desalination, Power Generation and Cooling Trigeration Plant. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1999	Pipe Parity Analysis of Seawater Desalination in the United States: Exploring Costs, Energy, and Reliability via Case Studies and Scenarios of Emerging Technology. <i>ACS ES&T Engineering</i> , 2022, 2, 434-445.	3.7	6
2000	Solar-driven water treatment: the path forward for the energy-water nexus. , 2022, , 337-362.		6
2001	Machine Learning Assisted Screening of Two-Dimensional Materials for Water Desalination. <i>ACS Nano</i> , 2022, 16, 1929-1939.	7.3	25
2002	Experimental Study on the Influence of Flexible Control on Key Parameters in Reverse Osmosis Desalination. <i>IEEE Access</i> , 2022, 10, 4844-4860.	2.6	4
2003	Characterization of microporous PP/PE nonwoven mats surface modified by deposition of electrospun nanofibers. <i>Journal of the Textile Institute</i> , 2023, 114, 110-121.	1.0	1
2004	Development of a computational tool for the design of seawater reverse osmosis desalination systems powered by photovoltaics for crop irrigation. , 0, , 1-22.		3
2005	Humidification-dehumidification desalination process: Performance evaluation and improvement through experimental and numerical methods. <i>Thermal Science and Engineering Progress</i> , 2022, 27, 101159.	1.3	8
2006	Separation mechanism of chalcopyrite and pyrite due to H ₂ O ₂ treatment in low-alkaline seawater flotation system. <i>Minerals Engineering</i> , 2022, 176, 107356.	1.8	12
2007	Nitrate Removal by Donnan Dialysis and Anion-Exchange Membrane Bioreactor Using Upcycled End-of-Life Reverse Osmosis Membranes. <i>Membranes</i> , 2022, 12, 101.	1.4	13
2008	Hybrid forward/reverse osmosis (HFRO): an approach for optimized operation and sustainable resource recovery. , 2022, , 69-94.		1
2009	Preparation and Applications of Nanocomposite Membranes for Water/Wastewater Treatment. , 0, , .		1
2010	Review of Thin Film Nanocomposite Membranes and Their Applications in Desalination. <i>Frontiers in Chemistry</i> , 2022, 10, 781372.	1.8	24
2011	A comprehensive review of electrospray technique for membrane development: Current status, challenges, and opportunities. <i>Journal of Membrane Science</i> , 2022, 646, 120248.	4.1	26

#	ARTICLE	IF	CITATIONS
2012	Thin-film nanocomposite reverse osmosis membranes incorporated with citrate-modified layered double hydroxides (LDHs) for brackish water desalination and boron removal. <i>Desalination</i> , 2022, 527, 115583.	4.0	35
2013	Visualizing the landscape and evolution of capacitive deionization by scientometric analysis. <i>Desalination</i> , 2022, 527, 115562.	4.0	13
2014	Effect of hollow fiber membrane properties and operating conditions on preventing scale precipitation in seawater desalination with vacuum membrane distillation. <i>Desalination</i> , 2022, 527, 115578.	4.0	18
2015	Spatial evolution of membrane fouling along a multi-stage integrated membrane system: A pilot study for steel industry brine recycling. <i>Desalination</i> , 2022, 527, 115566.	4.0	5
2016	Oilfield-produced water treatment using conventional and membrane-based technologies for beneficial reuse: A critical review. <i>Journal of Environmental Management</i> , 2022, 308, 114556.	3.8	38
2017	Membrane technology for sustainable water resources management: Challenges and future projections. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100590.	1.6	25
2018	Performance of reverse osmosis membrane with large feed pressure fluctuations from a wave-driven desalination system. <i>Desalination</i> , 2022, 527, 115546.	4.0	7
2019	Mxene pseudocapacitive electrode material for capacitive deionization. <i>Chemical Engineering Journal</i> , 2022, 435, 134959.	6.6	48
2020	Research progress on recent technologies of water harvesting from atmospheric air: A detailed review. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102000.	1.7	20
2021	Energy and eco-exergy analysis of different scenarios in waste heat recovery applications for electricity and fresh water generation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 9625-9643.	2.0	8
2022	Multi objective optimization of MSF and MSF-TVC desalination systems with using the surplus low-pressure steam (an energy, exergy and economic analysis). <i>Computers and Chemical Engineering</i> , 2022, 160, 107708.	2.0	33
2023	Desalination Technology in South Korea: A Comprehensive Review of Technology Trends and Future Outlook. <i>Membranes</i> , 2022, 12, 204.	1.4	13
2024	Enviro-exergo-economic analysis and optimization of a nanofiltration-multi effect desalination, power generation and cooling in an innovative trigeneration plant. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101857.	2.8	9
2025	Ultra-durable and highly-efficient hybrid capacitive deionization by MXene confined MoS ₂ heterostructure. <i>Desalination</i> , 2022, 528, 115616.	4.0	69
2026	Utilization of membrane separation processes for reclamation and reuse of geothermal water in agricultural irrigation of tomato plants-pilot membrane tests and economic analysis. <i>Desalination</i> , 2022, 528, 115608.	4.0	5
2027	Aerogels for water treatment: A review. <i>Journal of Cleaner Production</i> , 2021, 329, 129713.	4.6	64
2028	Spatial Evolution of Membrane Fouling Along a Multi-Stage Integrated Membrane System: A Pilot Study for Steel Industry Brine Recycling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2029	WATER CONSUMPTION ANALYSIS OF SMALL ISLANDS SUPPLIED WITH DESALINATED WATER IN INDONESIA. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2021, 77, III_129-III_140.	0.1	0

#	ARTICLE	IF	CITATIONS
2030	Current status of ion exchange membranes for electro dialysis/reverse electro dialysis and membrane capacitive deionization/capacitive mixing. , 2022, , 575-602.		0
2031	Zwitterion-modified membranes for water reclamation. , 2022, , 349-389.		1
2032	Low-Dimensional Nanostructured Materials for Sustainable Generation of Water and Energy. Materials Horizons, 2022, , 281-295.	0.3	0
2033	Sustainable Smart Aquaponics Farming Using IoT and Data Analytics. Journal of Information Technology Research, 2022, 15, 1-27.	0.3	4
2034	Reverse osmosis membrane scaling during brackish groundwater desalination. , 2022, , 603-626.		0
2035	Desalination technologies and their working principles. , 2022, , 45-106.		1
2036	Reuse and recycling of end-of-life reverse osmosis membranes. , 2022, , 381-417.		0
2037	Salt and Ion Transport in a Series of Crosslinked Amps/Pegda Hydrogel Membranes. SSRN Electronic Journal, 0, , .	0.4	0
2038	Critical Surface Density of Zwitterionic Polymer Chains Affect Antifouling Properties. SSRN Electronic Journal, 0, , .	0.4	0
2039	Silver nanoparticlesâ€polydopamineâ€wax gourd: An antimicrobial solar evaporator with enhanced steam generation. International Journal of Energy Research, 2022, 46, 8949-8961.	2.2	23
2040	On the potential of pristine <i>Cocos nucifera L</i> . tissues for green desalination. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210145.	1.6	0
2041	Thermal Desalination Systems: From Traditionality to Modernity and Development. , 0, , .		8
2042	Development of cellulose acetate membrane performance by carboxylate multiwalled carbon nanotubes. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 015006.	0.7	2
2043	Classical and Recent Developments of Membrane Processes for Desalination and Natural Water Treatment. Membranes, 2022, 12, 267.	1.4	24
2044	A Novel Hybrid Reactor of Pressure-Retarded Osmosis Coupling with Activated Sludge Process for Simultaneously Treating Concentrated Seawater Brine and Wastewater and Recovering Energy. Membranes, 2022, 12, 380.	1.4	0
2045	Fouling- and Chlorine-Resistant Nanofiltration Membranes Fabricated from Charged Zwitterionic Amphiphilic Copolymers. ACS Applied Polymer Materials, 2022, 4, 7998-8008.	2.0	8
2046	Environmental and economic analysis for desalinating seawater of high salinity using reverse osmosis: a life cycle assessment approach. Environment, Development and Sustainability, 2023, 25, 4539-4574.	2.7	5
2047	Asymmetric and Symmetric Redox Flow Batteries for Energy-Efficient, High-Recovery Water Desalination. Environmental Science & Technology, 2022, 56, 4477-4488.	4.6	19

#	ARTICLE	IF	CITATIONS
2048	Langmuir-Based Modeling Produces Steady Two-Dimensional Simulations of Capacitive Deionization via Relaxed Adsorption-Flow Coupling. <i>Langmuir</i> , 2022, 38, 3350-3359.	1.6	7
2049	Exergy analysis of electrodialysis for water desalination: Influence of irreversibility sources. <i>Energy Conversion and Management</i> , 2022, 258, 115314.	4.4	11
2050	Fouling control and modeling in reverse osmosis for seawater desalination: A review. <i>Computers and Chemical Engineering</i> , 2022, 162, 107794.	2.0	26
2051	Salt and ion transport in a series of crosslinked AMPS/PEGDA hydrogel membranes. <i>Journal of Membrane Science</i> , 2022, 653, 120549.	4.1	9
2052	Recent developments in functionalized polymer NF membranes for biofouling control. <i>Emergent Materials</i> , 2022, 5, 1345-1371.	3.2	11
2053	Pressure-assisted polydopamine modification of thin-film composite reverse osmosis membranes for enhanced desalination and antifouling performance. <i>Desalination</i> , 2022, 530, 115671.	4.0	29
2054	Fouling-Resistant Membranes with Tunable Pore Size Fabricated Using Cross-Linkable Copolymers with High Zwitterion Content. , 2022, 2, 100019.		3
2055	Ultrathin polyamide membranes enabled by spin-coating assisted interfacial polymerization for high-flux nanofiltration. <i>Separation and Purification Technology</i> , 2022, 288, 120648.	3.9	17
2056	Design a novel air to water pressure amplifier powered by PV system for reverse osmosis desalination. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112295.	8.2	7
2057	Double-barrier forward osmosis membrane for rejection and destruction of bacteria and removal of dyes. <i>Desalination</i> , 2022, 529, 115609.	4.0	8
2058	An antiscalant with chelating residues of amino acid glycine. <i>Desalination</i> , 2022, 531, 115728.	4.0	7
2059	Facile fabrication of hydroxyl-rich polyamide TFC RO membranes for enhanced boron removal performance. <i>Desalination</i> , 2022, 531, 115723.	4.0	14
2060	Optimizing interfacial polymerization with UV-introduced photo-fries rearrangement for enhancing RO membrane performance. <i>Chemical Engineering Journal</i> , 2022, 437, 135380.	6.6	11
2061	Hybrid forward osmosis - freeze concentration: A promising future in the desalination of effluents in cold regions. <i>Journal of Water Process Engineering</i> , 2022, 47, 102711.	2.6	6
2062	Recent advances in membrane-enabled water desalination by 2D frameworks: Graphene and beyond. <i>Desalination</i> , 2022, 531, 115684.	4.0	50
2063	Surface characterization of end-of-life reverse osmosis membranes from a full-scale advanced water reuse facility: Combined role of bioorganic materials and silicon on chemically irreversible fouling. <i>Journal of Membrane Science</i> , 2022, 653, 120511.	4.1	23
2064	Advanced 2Dâ€“2D heterostructures of transition metal dichalcogenides and nitrogen-rich nitrides for solar water generation. <i>Nano Energy</i> , 2022, 98, 107192.	8.2	30
2065	Development of cellulose triacetate asymmetric hollow fiber membranes with highly enhanced compaction resistance for osmotically assisted reverse osmosis operation applicable to brine concentration. <i>Journal of Membrane Science</i> , 2022, 653, 120508.	4.1	10

#	ARTICLE	IF	CITATIONS
2066	Review of New Approaches for Fouling Mitigation in Membrane Separation Processes in Water Treatment Applications. <i>Separations</i> , 2022, 9, 1.	1.1	39
2067	Assessment of Sediment Arsenic and Iron Occurrence and Leaching Potential in a Potable Water Treatment Wastewater Stabilization Pond System. <i>Canadian Journal of Civil Engineering</i> , 0, , .	0.7	0
2068	Examination of Desalination Model Parameters on a Reverse Osmosis Desalination Simulation Model. <i>Bilecik Āzeyh Edebalı Āeniversitesi Fen Bilimleri Dergisi</i> , 2021, 8, 614-621.	0.1	2
2069	Electrochemical membrane technology for fouling control. , 2022, , 195-225.		2
2070	Fabrication and prospective applications of graphene oxide-modified nanocomposites for wastewater remediation. <i>RSC Advances</i> , 2022, 12, 11750-11768.	1.7	32
2071	Donnan equilibrium revisited: Coupling between ion concentrations, osmotic pressure, and donnan potential. <i>Journal of Micromechanics and Molecular Physics</i> , 2022, 07, 127-134.	0.7	3
2072	Gradient Titanium Oxide Nanowire Film: a Multifunctional Solar Energy Utilization Platform for High-Salinity Organic Sewage Treatment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19652-19658.	4.0	6
2073	Advanced ion transfer materials in electro-driven membrane processes for sustainable ion-resource extraction and recovery. <i>Progress in Materials Science</i> , 2022, 128, 100958.	16.0	36
2084	Bio- polymer modified nanoclay embedded forward osmosis membranes with enhanced desalination performance. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	10
2085	CaPO4-Mediated CKD of Crystallo-Tubular-Nephropathy [CKD-CTN]â€™A Crystal and Nanotube-Induced Geo-Environmental Disease. <i>Frontiers in Water</i> , 2022, 4, .	1.0	1
2086	Applications of Polymeric Membranes with Carbon Nanotubes: A Review. <i>Membranes</i> , 2022, 12, 454.	1.4	9
2087	Recent progress, economic potential, and environmental benefits of mineral recovery geothermal brine treatment systems. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	7
2088	Nanofiltration. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	1
2089	Availability and Reliability Analysis of a k-Out-of-n Warm Standby System with Common-Cause Failure and Fuzzy Failure and Repair Rates. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-11.	0.6	2
2090	Desalinating a real hyper-saline pre-treated produced water via direct-heat vacuum membrane distillation. <i>Water Research</i> , 2022, 218, 118503.	5.3	9
2091	A comprehensive review of microbial desalination cells for present and future challenges. <i>Desalination</i> , 2022, 535, 115808.	4.0	30
2092	Modification of polyamide reverse osmosis membranes for the separation of urea. <i>Journal of Membrane Science</i> , 2022, 655, 120584.	4.1	12
2093	Critical surface density of zwitterionic polymer chains affect antifouling properties. <i>Applied Surface Science</i> , 2022, 596, 153652.	3.1	5

#	ARTICLE	IF	CITATIONS
2094	A review on recent advances in the treatment of dye-polluted wastewater. Journal of Industrial and Engineering Chemistry, 2022, 112, 1-19.	2.9	116
2096	Renewable energy-powered membrane desalination review of recent development. Environmental Science and Pollution Research, 2022, 29, 46552-46568.	2.7	31
2097	Multimodal confined water dynamics in reverse osmosis polyamide membranes. Nature Communications, 2022, 13, 2809.	5.8	16
2098	In situ constructed Ti_3C_2Tx MXene/polypyrrole composite with enhanced sodium storage capacity for efficient hybrid capacitive deionization. Journal of Polymer Science, 2022, 60, 3035-3042.	2.0	11
2099	Zero Liquid Discharge System for the Tannery Industry An Overview of Sustainable Approaches. Recycling, 2022, 7, 31.	2.3	11
2100	Design of Mos_2/Mmt Bi-Layered Aerogels Integrated with Phase Change Materials for Sustained and Efficient Solar Desalination. SSRN Electronic Journal, 0, , .	0.4	0
2101	Scaling Up the Simultaneous Production of Clean Electricity and Clean Water. Journal of the Electrochemical Society, 0, , .	1.3	0
2102	Selectivity enhancement of oxidative degraded reverse osmosis membrane by chitosan-tannic acid treatment. Journal of Applied Polymer Science, 0, , .	1.3	1
2103	Review: Brine Solution: Current Status, Future Management and Technology Development. Sustainability, 2022, 14, 6752.	1.6	11
2104	Solid CO_2 hydrates for sustainable environment: Application in carbon capture and desalination. Materials Today: Proceedings, 2022, 67, 609-615.	0.9	7
2108	Application of reverse osmosis to improve removal of residual salt content in electrodialysis process. AIP Conference Proceedings, 2022, , .	0.3	1
2109	Cationic Stabilized Layered Graphene Oxide (Go) Membrane For Shale Gas Wastewater Treatment: An Atomistic Insight. SSRN Electronic Journal, 0, , .	0.4	0
2110	Graphene-reinforced polymeric membranes for water desalination and gas separation/barrier applications. , 2022, , 133-165.		14
2111	Water saving in thermal power plant by use of membrane filter in cooling tower treatment. AIMS Environmental Science, 2022, 9, 282-292.	0.7	1
2112	Energy Recovery in Membrane Process. , 0, , .		0
2113	On the applicability of atmospheric water harvesting technologies on building facades: A critical review. Journal of Cleaner Production, 2022, 366, 132809.	4.6	5
2114	Ions transport in electromembrane desalination: A numerical modeling for the return flow ion-concentration-polarization desalination system. Chemical Engineering Research and Design, 2022, 184, 366-377.	2.7	6
2115	Drivers, challenges, and emerging technologies for desalination of high-salinity brines: A critical review. Desalination, 2022, 538, 115827.	4.0	67

#	ARTICLE	IF	CITATIONS
2116	Optimization of RO desalination process. , 2022, , 301-387.		0
2118	Boron Removal from Reverse Osmosis Permeate Using an Electrosorption Process: Feasibility, Kinetics, and Mechanism. Environmental Science & Technology, 2022, 56, 10391-10401.	4.6	13
2119	Autopsy of Used Reverse Osmosis Membranes from the Largest Seawater Desalination Plant in Oman. Membranes, 2022, 12, 671.	1.4	3
2120	Broad-ranging review: configurations, membrane types, governing equations, and influencing factors on microbial desalination cell technology. Journal of Chemical Technology and Biotechnology, 2022, 97, 3241-3270.	1.6	8
2121	Technical and Environmental Opportunities for Freeze Desalination. Separation and Purification Reviews, 2023, 52, 326-335.	2.8	3
2122	Smart harvesting and in-situ application of piezoelectricity in membrane filtration systems. Journal of Membrane Science, 2022, , 120819.	4.1	5
2123	Atmospheric water harvesting: Prospectus on graphene-based materials. Journal of Materials Research, 2022, 37, 2227-2240.	1.2	7
2124	Production of high-quality drinking water from chillers and air conditioning units' condensates using UV/GAC/MF/NF hybrid system. Journal of Cleaner Production, 2022, 368, 133177.	4.6	7
2125	Persimmon tannin-modified graphitic carbon nitride as a bioadsorbent for methyl orange removal through CCD-RSM design. International Journal of Environmental Science and Technology, 2022, 19, 11347-11360.	1.8	1
2126	A two-phase model that unifies and extends the classical models of membrane transport. Science, 2022, 377, 186-191.	6.0	22
2127	Removal of 4-nitrophenol using high performance magnetic graphene oxide nanocomposite: synthesis, characterization. Journal of Porous Materials, 2022, 29, 1853-1872.	1.3	3
2128	High-Efficient Fog Harvest from a Synergistic Effect of Coupling Hierarchical Structures. ACS Applied Materials & Interfaces, 2022, 14, 33993-34001.	4.0	19
2129	Membrane desalination for water treatment: recent developments, techno-economic evaluation and innovative approaches toward water sustainability. European Physical Journal Plus, 2022, 137, .	1.2	13
2130	Calorimetry based temperature and specific enthalpy measurements associated with ice-water phase change in saline systems for freeze desalination. International Journal of Thermofluids, 2022, 15, 100175.	4.0	2
2131	Preparation of antifouling TFC RO membranes by facile grafting zwitterionic polymer PEI-CA. Desalination, 2022, 539, 115972.	4.0	12
2132	Enhanced vapor condensation by thermal redistribution on the evaporation surface in heat-localized solar desalination. Applied Thermal Engineering, 2022, 215, 118941.	3.0	10
2133	Desalination of Saline Water: A Review. , 0, , 08-12.		0
2134	Concentration polarization on surface patterned membranes. AIChE Journal, 2022, 68, .	1.8	9

#	ARTICLE	IF	CITATIONS
2135	Resin-Loaded Heterogeneous Polyether Sulfone Ion Exchange Membranes for Saline Groundwater Treatment. <i>Membranes</i> , 2022, 12, 736.	1.4	4
2136	Multi-scale visualization of incipient CaCO ₃ scaling on the polyamide layer of reverse osmosis membranes. <i>Desalination</i> , 2022, 539, 115956.	4.0	4
2137	Flow-Through In-Situ Evaporation Membrane Enabled Self-Heated Membrane Distillation for Efficient Desalination of Hypersaline Water. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2138	Phase equilibria of methane/<scp>TBAC</scp> mixed hydrates in the presence of produced water. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 726-734.	0.9	3
2139	Linear versus Nonlinear Aromatic Polyamides: The Role of Backbone Geometry in Thin Film Salt Exclusion Membranes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 36143-36156.	4.0	4
2140	Effective desalination and anti-biofouling performance via surface immobilized MWCNTs on RO membrane. <i>Chinese Journal of Chemical Engineering</i> , 2023, 56, 33-45.	1.7	0
2142	Theory of bipolar connections in capacitive deionization and principles of structural design. <i>Electrochimica Acta</i> , 2022, 430, 141066.	2.6	7
2143	Surface Electrochemistry of Carbon Electrodes and Faradaic Reactions in Capacitive Deionization. <i>Environmental Science & Technology</i> , 2022, 56, 12602-12612.	4.6	20
2144	Physicochemical methods for process wastewater treatment: powerful tools for circular economy in the chemical industry. <i>Reviews in Chemical Engineering</i> , 2023, 39, 1123-1151.	2.3	8
2145	Janus Biopolymer Sponge with Porous Structure Based on Water Hyacinth Petiole for Efficient Solar Steam Generation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9185.	1.8	8
2146	Sorbents for Atmospheric Water Harvesting: From Design Principles to Applications. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	10
2147	Sorbents for Atmospheric Water Harvesting: From Design Principles to Applications. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	51
2148	Tailoring the Desorption Behavior of Hygroscopic Gels for Atmospheric Water Harvesting in Arid Climates. <i>Advanced Materials</i> , 2022, 34, .	11.1	62
2149	Farming on Mars: Treatment of basaltic regolith soil and briny water simulants sustains plant growth. <i>PLoS ONE</i> , 2022, 17, e0272209.	1.1	11
2150	Isolation and evaluation of brackish diatoms for the photobiological treatment of reverse osmosis concentrate. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 0, , .	0.6	0
2151	Modeling and predicting of water production by capacitive deionization method using artificial neural networks. <i>Desalination</i> , 2022, 540, 115992.	4.0	6
2152	Performance model for reverse osmosis. <i>Chemical Engineering Research and Design</i> , 2022, 186, 416-432.	2.7	10
2153	A sustainable approach in water desalination with the integration of renewable energy sources: Environmental engineering challenges and perspectives. <i>Environmental Advances</i> , 2022, 9, 100281.	2.2	20

#	ARTICLE	IF	CITATIONS
2154	Concept design of a greenhouse cooling system using multi-stage nanofiltration for liquid desiccant regeneration. <i>Applied Thermal Engineering</i> , 2022, 216, 119057.	3.0	5
2155	Tuning the surface functionality of polyamide films via termination reaction in molecular layer-by-layer deposition. <i>Journal of Membrane Science</i> , 2022, 661, 120855.	4.1	1
2156	Dissecting the role of membrane defects with low-energy barrier on fouling development through A collision Attachment-Monte Carlo approach. <i>Journal of Membrane Science</i> , 2022, 663, 120981.	4.1	3
2157	Low feed water temperature effects on RO membrane fouling development for municipal wastewater reclamation. <i>Journal of Water Process Engineering</i> , 2022, 49, 103093.	2.6	4
2158	Investigation of efficient corrosion inhibitor during acid cleaning of reverse osmosis (RO) desalination plant. <i>Corrosion Science</i> , 2022, 208, 110609.	3.0	9
2159	An overview of water desalination systems integrated with renewable energy sources. <i>Desalination</i> , 2022, 542, 116063.	4.0	61
2160	Molecular insight into C60-grafted graphene oxide as a novel reverse osmosis membrane with low energy consumption for seawater desalination. <i>Desalination</i> , 2022, 542, 116062.	4.0	4
2161	Selectivity toward heavier monovalent cations of carbon ultramicropores used for capacitive deionization. <i>Desalination</i> , 2022, 542, 116053.	4.0	8
2162	Flow-through in-situ evaporation membrane enabled self-heated membrane distillation for efficient desalination of hypersaline water. <i>Chemical Engineering Journal</i> , 2023, 452, 139170.	6.6	11
2163	Effect of Different Manufacturing Methods on Polyamide Reverse-Osmosis Membranes for Desalination: Insights from Molecular Dynamics Simulations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2164	Challenges and Opportunities for Process Systems Engineering in a Changed World. <i>Computer Aided Chemical Engineering</i> , 2022, , 7-20.	0.3	1
2165	Dissecting the Role of Membrane Defects on Fouling Development and Characteristics with a Collision Attachment-Monte Carlo Approach. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2166	Photocatalytic Degradation of Fluorescein Dye (Flu) Over Sns2/Sno2 Photocatalyst. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2167	Preparation of Thermally Stable 3-Glycidylxypropyl-Poss-Derived Polysilsesquioxane Ro Membranes for Water Desalination. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2168	Laser-treated wood for high-efficiency solar thermal steam generation. <i>RSC Advances</i> , 2022, 12, 24861-24867.	1.7	2
2169	Selective and rapid water transportation across a self-assembled peptide-diol channel <i>via</i> the formation of a dual water array. <i>Chemical Science</i> , 2022, 13, 9614-9623.	3.7	10
2170	Artificial neural network and desalination systems. , 2022, , 159-187.		1
2171	Dual Use of Seawater Batteries for Energy Storage and Water Desalination. <i>Small</i> , 2022, 18, .	5.2	20

#	ARTICLE	IF	CITATIONS
2172	Water Cleaning Adsorptive Membranes for Efficient Removal of Heavy Metals and Metalloids. <i>Water (Switzerland)</i> , 2022, 14, 2718.	1.2	8
2173	Treatment technologies for sustainable management of wastewater from iron and steel industry – a review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 75203-75222.	2.7	4
2174	Investigation on the role of graphene-based composites for in photocatalytic degradation of phenol-based compounds in wastewater: a review. <i>Environmental Science and Pollution Research</i> , 0, , .	2.7	2
2175	Flotation separation of chalcopyrite and pyrite via Fenton oxidation modification in a low alkaline acid mine drainage (AMD) system. <i>Minerals Engineering</i> , 2022, 187, 107818.	1.8	13
2176	The effect of functionalized multi-walled carbon tube/polyvinylidene fluoride support membrane on the formation and performance of polyamide film. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	1
2177	Polydopamine-copper spacers improve longevity and prevent biofouling in reverse osmosis. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 7782-7793.	1.0	3
2178	Feasibility of thin film nanocomposite membranes for clean energy using pressure retarded osmosis and reverse electro dialysis. <i>Energy Nexus</i> , 2022, 7, 100141.	3.3	8
2180	Deviation from Darcy Law in Porous Media Due to Reverse Osmosis: Pore-Scale Approach. <i>Energies</i> , 2022, 15, 6656.	1.6	2
2181	Thin Film Composite Polyamide Reverse Osmosis Membrane Technology towards a Circular Economy. <i>Membranes</i> , 2022, 12, 864.	1.4	10
2182	MoS ₂ -encapsulated nitrogen-doped carbon bowls for highly efficient and selective removal of copper ions from wastewater. <i>Separation and Purification Technology</i> , 2023, 304, 122284.	3.9	11
2183	Comparison of Fouling Behavior in Cellulose Triacetate Membranes Applied in Forward and Reverse Osmosis. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 15345-15354.	1.8	2
2184	Binder-free Wood Converted Carbon for Enhanced Water Desalination Performance. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
2185	Water permeation in gas and liquid phases through organosilica membranes: A unified theory of reverse osmosis, pervaporation, and vapor permeation. <i>Chemical Engineering Science</i> , 2022, 263, 118083.	1.9	8
2186	Membrane technology as an emergency response against drinking water shortage in scenarios of dam failure. <i>Chemosphere</i> , 2022, 309, 136618.	4.2	7
2187	Sustainable Desalination and Water Reuse. <i>Synthesis Lectures on Sustainable Development</i> , 2021, , .	0.2	0
2188	Desalination of Ocean Water: How Far Does It Contribute to the Blue Economy?. , 2022, , 131-144.		0
2189	Sustainable high-pressure light-driven water pump with a spiral tube structure and Landauer ratchet. <i>Physics of Fluids</i> , 2022, 34, .	1.6	3
2190	Post-synthetic modification of MOFs to enhance interfacial compatibility and selectivity of thin-film nanocomposite (TFN) membranes for water purification. <i>Journal of Membrane Science</i> , 2023, 666, 121133.	4.1	14

#	ARTICLE	IF	CITATIONS
2191	"Assessment of Xylem Discs from Fruiting and Shading Plants in Tap-water Desalination". <i>Current Green Chemistry</i> , 2022, 10, .	0.7	0
2192	Nanoarchitectonics of High-performance Bis(triethoxysilyl)methane (BTESM) Hybrid-silica Membrane for Pervaporative Desalination Applications. <i>European Journal of Inorganic Chemistry</i> , 0, , .	1.0	0
2193	Comparison of pyrophyllite- and alumina-coated membrane treating industrial wastewater in aspect of membrane fouling and organic removal. <i>Chemical Engineering Research and Design</i> , 2022, , .	2.7	1
2194	Design, modeling, and thermo-economic optimization of an innovative continuous solar-powered hybrid desalination plant integrated with latent heat thermal energy storage. <i>Applied Thermal Engineering</i> , 2023, 219, 119576.	3.0	2
2195	A Simple and Efficient Solar Interfacial Evaporation Device Based on Carbonized Cattail and Agarose Hydrogel for Water Evaporation and Purification. <i>Membranes</i> , 2022, 12, 1076.	1.4	3
2196	Highly hydrophobic oil-water separation membrane: reutilization of waste reverse osmosis membrane. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 1606-1615.	2.3	2
2197	Effect of the Alkyl Chain Length on Assessment as Thermo-Responsive Draw Solutes for Forward Osmosis. <i>ACS Omega</i> , 2022, 7, 41508-41518.	1.6	2
2198	Fabrication of superhydrophilic/underwater superoleophobic functionalized-nanoparticles/PVDF-supported thin film composite polyamide membranes for efficient water purification. <i>Journal of Water Process Engineering</i> , 2022, 50, 103128.	2.6	3
2200	Biosorption of zinc (II) from synthetic wastewater by using <i>Inula Viscosa</i> leaves as a low-cost biosorbent: Experimental and molecular modeling studies. <i>Journal of Environmental Management</i> , 2023, 326, 116742.	3.8	21
2201	Effect of different manufacturing methods on polyamide reverse-osmosis membranes for desalination: Insights from molecular dynamics simulations. <i>Desalination</i> , 2023, 547, 116204.	4.0	7
2202	In-situ growth of layered double hydroxides (LDHs) onto thin-film composite membranes for enhanced reverse osmosis performance. <i>Desalination</i> , 2023, 547, 116235.	4.0	14
2203	Optimization of the Design Configuration and Operation Strategy of Single-Pass Seawater Reverse Osmosis. <i>Membranes</i> , 2022, 12, 1145.	1.4	0
2204	Reject brine management: Denitrification and zero liquid discharge (ZLD) Current status, challenges and future prospects. <i>Journal of Cleaner Production</i> , 2022, 381, 135124.	4.6	15
2205	Pervaporative desalination using MIL 140 loaded polylactic acid nanocomposite membrane. <i>Chemical Engineering Research and Design</i> , 2023, 169, 447-457.	2.7	5
2206	Techno-economic assessment of water desalination: Future outlooks and challenges. <i>Chemical Engineering Research and Design</i> , 2023, 169, 564-578.	2.7	19
2207	Reverse osmosis membranes functionalized with polyglycidol decorated hyperbranched copolymer exhibits superior filtration performance and improved fouling resistance. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108943.	3.3	3
2208	CAU-10-H as efficient water sorbent for solar steam generation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 141, 104593.	2.7	1
2209	Crown ether interlayer-modulated polyamide membrane with nanoscale structures for efficient desalination. <i>Nano Research</i> , 2023, 16, 6153-6159.	5.8	10

#	ARTICLE	IF	CITATIONS
2210	Passive freezing desalination driven by radiative cooling. <i>Joule</i> , 2022, 6, 2762-2775.	11.7	12
2211	Métodos de remoción de metales en aguas para consumo humano: Una revisión. <i>Cultura Científica Y Tecnológica</i> , 2022, 19, .	0.0	0
2212	Ocean Wave Powered Reverse Osmosis Desalination: Design, Modeling and Test Validation. <i>IFAC-PapersOnLine</i> , 2022, 55, 782-787.	0.5	2
2213	Design of selective and self-cleaning iron aminoclay thin film nanocomposite membranes. <i>Chemical Engineering Journal</i> , 2023, 456, 140941.	6.6	2
2214	“One stone two birds” or “you can't have your cake and eat it too”? Effects of device dimensions and position of the thermoelectric module on simultaneous solar-driven water evaporation and thermoelectric generation. <i>Journal of Materials Chemistry A</i> , 2022, 11, 419-433.	5.2	5
2215	Preparation of thermally stable 3-glycidyloxypropyl-POSS-derived polysilsesquioxane RO membranes for water desalination. <i>Journal of Membrane Science</i> , 2023, 668, 121213.	4.1	1
2216	Graphene oxide/methyl anthranilate modified anti-biofouling membrane possesses dual functions of anti-adhesion and quorum quenching. <i>Journal of Membrane Science</i> , 2023, 668, 121265.	4.1	4
2217	Antiscalants used in the desalination industry impact the physiology of the coral <i>Montipora capricornis</i> . <i>Water Research</i> , 2023, 229, 119411.	5.3	4
2218	Fouling characteristic of reverse osmosis membrane for reclaimed water treatment operating under cold winter condition. <i>Desalination</i> , 2023, 549, 116309.	4.0	8
2219	Formation of Organic Fouling during Membrane Desalination: The Effect of Divalent Cations and the Use of an Online Visual Monitoring Method. <i>Membranes</i> , 2022, 12, 1177.	1.4	0
2220	Preliminary Study on the Use of Reverse Osmosis Brine and Mine Tailings as Cement Paste Mixtures for Mine Backfilling Application. <i>Water, Air, and Soil Pollution</i> , 2022, 233, .	1.1	1
2221	Kinetic Study of Gas Hydrate Formation in an R410a + CaCl ₂ Aqueous Solution System in the Presence or Absence of Cyclopentane: Application to Hydrate-Based Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 18146-18156.	1.8	2
2222	Precise Hydrogen Sieving by Carbon Molecular Sieve Membranes Derived from Solution-Processable Aromatic Polyamides. , 2023, 5, 243-248.		11
2223	The Effect of Organic Matter on Heavy Metals Removal from Simulated Wastewater using a Reverse Osmosis Membrane Process. <i>ChemistrySelect</i> , 2022, 7, .	0.7	2
2224	Augmentation of Water “Can Oceans Help?. , 2023, , 253-270.		0
2225	Toward a universal framework for evaluating transport resistances and driving forces in membrane-based desalination processes. <i>Science Advances</i> , 2023, 9, .	4.7	16
2226	Solar steam generation using hybrid nanomaterials to address global environmental pollution and water shortage crisis. <i>Materials Today Sustainability</i> , 2023, 21, 100319.	1.9	20
2227	Ohmic charging in capacitive deionization: Efficient water desalination using capacitive spacers. <i>Nano Select</i> , 0, , .	1.9	0

#	ARTICLE	IF	CITATIONS
2228	Porous functional materials with excellent solar-thermal and electro-thermal properties for desalination of saline water. Separation and Purification Technology, 2023, 310, 123184.	3.9	7
2229	Desalination technologies, membrane distillation, and electrospinning, an overview. Heliyon, 2023, 9, e12810.	1.4	20
2230	Fully 3D Modeling of Electrochemical Deionization. ACS Omega, 2023, 8, 2607-2617.	1.6	3
2231	Silicic Acid Removal by Metal-Organic Frameworks for Silica-Scale Mitigation in Reverse Osmosis Membranes, 2023, 13, 78.	1.4	2
2232	Mapping non-conventional atmospheric drinking water harvesting opportunities in Central Eurasia: The case of Kazakhstan. Natural Resources Forum, 0, , .	1.8	0
2233	Numerical modelling and analysis of concentration polarization and scaling of gypsum over RO membrane during seawater desalination. Chemical Engineering Research and Design, 2023, 190, 497-507.	2.7	7
2234	Environmental sustainability and ions removal through electrodialysis desalination: Operating conditions and process parameters. Desalination, 2023, 549, 116319.	4.0	40
2235	Management of reject water in decentralized community RO plants by devising an integrated treatment scheme of NF and RO by pilot-scale analysis. Journal of Environmental Management, 2023, 331, 117094.	3.8	1
2236	Improved Photo-Excited Carriers Transportation of WS ₂ -Doped Graphene Heterostructures for Solar Steam Generation. Small, 2023, 19, .	5.2	8
2237	Hydrogen economy for sustainable development in GCC countries: A SWOT analysis considering current situation, challenges, and prospects. International Journal of Hydrogen Energy, 2023, 48, 10315-10344.	3.8	40
2238	Numerical study of the effect friction coefficient particles on morphological properties of separation membrane surface. Modern Physics Letters B, 0, , .	1.0	0
2239	Research Progress of Water Treatment Technology Based on Nanofiber Membranes. Polymers, 2023, 15, 741.	2.0	10
2240	Selective Removal of Sulfate from Water by Precipitation with a Rigid Bis-amidinium Compound. Angewandte Chemie - International Edition, 2023, 62, .	7.2	6
2241	Selective Removal of Sulfate from Water by Precipitation with a Rigid Bis-amidinium Compound. Angewandte Chemie, 0, , .	1.6	0
2242	Advanced Polymeric Nanocomposite Membranes for Water and Wastewater Treatment: A Comprehensive Review. Polymers, 2023, 15, 540.	2.0	24
2243	Treatment of Brackish Water Inland Desalination Brine via Antiscalant Removal Using Persulfate Photolysis. Environmental Science: Water Research and Technology, 0, , .	1.2	0
2244	Membrane-based water and wastewater treatment technologies: Issues, current trends, challenges, and role in achieving sustainable development goals, and circular economy. Chemosphere, 2023, 320, 137993.	4.2	30
2245	Membrane Separations: from Purifications, Minimisation, Reuse and Recycling to Process Intensification. , 2014, , 467-502.		0

#	ARTICLE	IF	CITATIONS
2246	Classification of membranes: With respect to pore size, material, and module type. , 2023, , 3-17.		0
2247	Engineering hydrophobic surface on polyethersulfone membrane with bio-inspired coating for desalination with direct contact membrane distillation. <i>Polymers for Advanced Technologies</i> , 2023, 34, 2419-2436.	1.6	1
2248	Order-of-magnitude enhancement in boron removal by membrane-free capacitive deionization. <i>Chemical Engineering Journal</i> , 2023, 466, 142722.	6.6	5
2249	Molecular mechanisms of thickness-dependent water desalination in polyamide reverse-osmosis membranes. <i>Journal of Membrane Science</i> , 2023, 674, 121498.	4.1	4
2250	Anti-fouling/wetting electrospun nanofibrous membranes for membrane distillation desalination: A comprehensive review. <i>Desalination</i> , 2023, 553, 116475.	4.0	16
2251	Feasibility assessment of alternative environmentally friendly disinfection technique for reverse osmosis-based desalination process. <i>Desalination</i> , 2023, 553, 116458.	4.0	1
2252	Efficient ciprofloxacin removal over Z-scheme ZIF-67/V-BiOI/O ₃ heterojunctions: Insight into synergistic effect between adsorption and photocatalysis. <i>Separation and Purification Technology</i> , 2023, 313, 123511.	3.9	40
2253	Outflow geometry for electrochemical desalination cells. <i>Electrochimica Acta</i> , 2023, 449, 142180.	2.6	0
2254	Salt rejection and scaling on non-conductive membranes in direct- and alternating-current electric fields. <i>Journal of Membrane Science</i> , 2023, 675, 121549.	4.1	3
2255	Understanding flow dynamics in membrane distillation: Effects of reactor design on polarization. <i>Separation and Purification Technology</i> , 2023, 314, 123664.	3.9	0
2256	Chemical synthesis of magnesium oxide (MgO) from brine towards minimal energy consumption. <i>Desalination</i> , 2023, 556, 116594.	4.0	9
2257	Multistage interfacial thermal desalination system with metallic evaporators. <i>Desalination</i> , 2023, 556, 116576.	4.0	0
2258	Photocatalytic removal of organic dyes by titanium doped alumina nanocomposites: Using multivariate factorial and kinetics models. <i>Journal of Molecular Structure</i> , 2023, 1285, 135509.	1.8	9
2259	Quantifying and reducing concentration polarization in reverse osmosis systems. <i>Desalination</i> , 2023, 554, 116480.	4.0	8
2260	In-situ coating of Fe-TA complex on thin-film composite membranes for improved water permeance in reverse osmosis desalination. <i>Desalination</i> , 2023, 554, 116515.	4.0	14
2261	Organic solvent reverse osmosis characteristics of TiO ₂ -ZrO ₂ -organic chelating ligand (OCL) composite membranes using OCLs with different molecular sizes. <i>Separation and Purification Technology</i> , 2023, 315, 123576.	3.9	2
2262	Membrane Design Criteria and Practical Viability of Pressure-Driven Distillation. <i>Environmental Science & Technology</i> , 2023, 57, 2129-2137.	4.6	3
2263	Thermal treated amidoxime modified polymer of intrinsic microporosity (AOPIM-1) membranes for high permselectivity reverse osmosis desalination. <i>Desalination</i> , 2023, 551, 116413.	4.0	6

#	ARTICLE	IF	CITATIONS
2264	A Review of Membrane-Based Desalination Systems Powered by Renewable Energy Sources. <i>Water (Switzerland)</i> , 2023, 15, 534.	1.2	17
2265	Tuning the Cation/Anion Adsorption Balance with a Multi-Electrode Capacitive-Deionization Process. <i>Journal of the Electrochemical Society</i> , 2023, 170, 023502.	1.3	0
2266	Chemical inhibition of combined gypsum and iron oxides membrane fouling during reverse osmosis desalination process: Prevention and regeneration of membranes. <i>Desalination</i> , 2023, 551, 116414.	4.0	3
2267	Nickel Chalcogenide Nanoparticles-Assisted Photothermal Solar Driven Membrane Distillation (PSDMD). <i>Membranes</i> , 2023, 13, 195.	1.4	1
2268	Decolorization of Methylene Blue Solution by Employing Magnetized <i>Artocarpus heterophyllus</i> Fruit Peel as a Novel Adsorbent. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 7647-7659.	1.7	3
2269	Evaluation of Eutrophication in Jiaozhou Bay via Water Color Parameters Determination with UAV-Borne Hyperspectral Imagery. <i>Atmosphere</i> , 2023, 14, 387.	1.0	4
2270	Electrocapacitive Deionization: Mechanisms, Electrodes, and Cell Designs. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	31
2271	Techno-economic Assessment of Atmospheric Water Harvesting (AWH) Technologies. <i>Water Science and Technology Library</i> , 2023, , 153-183.	0.2	2
2272	Atmospheric Water Generator Technologies. <i>Water Science and Technology Library</i> , 2023, , 1-13.	0.2	0
2273	Electrosorption Integrated with Bipolar Membrane Water Dissociation: A Coupled Approach to Chemical-free Boron Removal. <i>Environmental Science & Technology</i> , 2023, 57, 4578-4590.	4.6	7
2274	Genotoxicity Signatures near Brine Outflows from Desalination Plants in the Levant. <i>Water (Switzerland)</i> , 2023, 15, 1079.	1.2	2
2275	Utilization of <i>Azadirachta indica</i> Sawdust as a Potential Adsorbent for the Removal of Crystal Violet Dye. <i>Sustainable Chemistry</i> , 2023, 4, 110-126.	2.2	11
2276	Grand challenge in membrane applications: Liquid. , 0, 2, .		0
2277	Exploring the associations between the perception of water scarcity and support for alternative potable water sources. <i>PLoS ONE</i> , 2023, 18, e0283245.	1.1	0
2278	Fouling in reverse osmosis membranes: monitoring, characterization, mitigation strategies and future directions. <i>Heliyon</i> , 2023, 9, e14908.	1.4	22
2279	Application of Optical Coherence Tomography (OCT) to Analyze Membrane Fouling under Intermittent Operation. <i>Membranes</i> , 2023, 13, 392.	1.4	1
2280	3D Solar Harvesting and Energy Generation via Multilayers of Transparent Porphyrin and Iron Oxide Thin Films. <i>Energies</i> , 2023, 16, 3173.	1.6	4
2281	Evaluating the ability of Iranian natural zeolite to remove lead from polluted groundwater in Fashafuye plain. <i>International Journal of Environmental Science and Technology</i> , 0, , .	1.8	0

#	ARTICLE	IF	CITATIONS
2282	Ion Separation Together with Water Purification via a New Type of Nanotube: A Molecular Dynamics Study. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6677.	1.8	2
2283	Bioinspired Self-Standing, Self-Floating 3D Solar Evaporators Breaking the Trade-Off between Salt Cycle and Heat Localization for Continuous Seawater Desalination. <i>Advanced Materials</i> , 2023, 35, .	11.1	33
2284	Systematic Investigation of Microbial Desalination Cells (MDC) Performance under the Impact of Cation Migration Behavior and Multi-cation Interactions in Industrial Wastewater. <i>Electrochemistry</i> , 2023, 91, 057007-057007.	0.6	0
2285	Cogeneration of Fresh Water and Electricity with High-Temperature Power Cycles: Comparative Assessment of Multi-Effect Distillation and Reverse Osmosis. <i>Processes</i> , 2023, 11, 1181.	1.3	1
2286	Polyethersulfone/polyamide thin-film nanocomposite membrane decorated by WS ₂ -Cys-LiO-66-(CO ₂ H) ₂ nanocomposites for forward osmosis. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109959.	3.3	3
2287	Photocatalytic BiVO ₄ -Cement Composites for Dye Degradation. <i>Journal of Electronic Materials</i> , 2023, 52, 4672-4685.	1.0	2
2313	Nanotechnology for Bioremediation of Industrial Wastewater Treatment. , 2023, , 105-131.		1
2320	Aquaponics as a Sustainable Food Production System with Promising Development Perspectives in Morocco. , 2023, , 385-402.		0
2330	Brackish water treatment in Sidoarjo area (East Java Indonesia) using Reverse Osmosis (RO). <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
2337	Transport and fouling in desalination membranes. , 2024, , 670-684.		0
2345	Desalination and Demineralization in Water and Used Water Purification, Nanofiltration, Reverse Osmosis, Electrodialysis Reversal, Ion-Exchange, and Electrodeionization. , 2023, , 1-30.		0
2356	Decision making for implementing non-traditional water sources: a review of challenges and potential solutions. <i>Npj Clean Water</i> , 2023, 6, .	3.1	5
2381	Flow-electrode Capacitive Deionization. , 2023, , 224-248.		0
2384	Osmotically assisted reverse osmosis (OARO) for desalination of brackish water. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
2394	Progress on smart integrated systems of seawater purification and electrolysis. <i>Energy and Environmental Science</i> , 2023, 16, 4994-5002.	15.6	3
2399	Application of Nanomaterials in Water Purification: A Thematic Review. <i>Lecture Notes in Civil Engineering</i> , 2024, , 97-113.	0.3	0
2401	Water purification using recyclable nano composite. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
2437	Hydrochar from agrowastes: a low-cost adsorbent for environmental application. , 2024, , 281-290.		0

#	ARTICLE	IF	CITATIONS
2442	A Critical Review of Sustainable Biodegradable Polymeric Reverse Osmosis Membranes. Earth and Environmental Sciences Library, 2024, , 175-194.	0.3	0
2443	Integrated Brine Salinity Reduction, CO ₂ Capture, and Valuable Product Recovery via Modified Solvay Process: An Overview. , 2023, , .		0
2444	Recent advances in the application of magnetic/electromagnetic field for water desalination. , 2024, , 427-459.		0
2448	Water and access to sanitation and hygiene. , 2024, , 67-84.		0
2456	Application and comparison of electrodeionization. , 2024, , 103-128.		0
2458	Electrodialysis and membrane capacitive deionization. , 2024, , 189-231.		0
2459	Shale gas extraction technologies. , 2024, , 211-242.		0
2460	Production of high pure water using electrodeionization. , 2024, , 183-203.		0
2463	Machine learning for membrane design in energy production, gas separation, and water treatment: a review. Environmental Chemistry Letters, 2024, 22, 505-560.	8.3	0
2476	Comprehensive Review on the Recent Trends in Solar Photo Voltaic distillation. , 2023, , .		0
2482	A Sustainable Method of Production Towards Food Security Using Aquaponics: A Case Study from Oman. , 2024, , 333-354.		0