June-Seok Choi

List of Publications by Year
in descending order

51 papers	3,680 citations	279798 23 h-index	214800 47 g-index
51 all docs	51 docs citations	51 times ranked	3106 citing authors

#	Article	IF	Citations
1	Enhancing performances of polyamide thin film composite membranes via co-solvent assisted interfacial polymerization. Desalination, 2022, 524, 115481.	8.2	11
2	Fabrication and characterization of high-performance acetone-assisted polyamide thin-film composite membranes for fluoridated saline water treatment. Desalination, 2022, 538, 115922.	8.2	9
3	Ammonia recovery from human urine as liquid fertilizers in hollow fiber membrane contactor: Effects of permeate chemistry. Environmental Engineering Research, 2021, 26, .	2.5	21
4	A pilot study of spiral-wound air gap membrane distillation process and its energy efficiency analysis. Chemosphere, 2020, 239, 124696.	8.2	21
5	Reverse osmosis membrane fabrication and modification technologies and future trends: A review. Advances in Colloid and Interface Science, 2020, 276, 102100.	14.7	137
6	Ensemble Model Development for the Prediction of a Disaster Index in Water Treatment Systems. Water (Switzerland), 2020, 12, 3195.	2.7	9
7	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. Water Research, 2020, 186, 116320.	11.3	17
8	Membrane-based technologies for zero liquid discharge and fluoride removal from industrial wastewater. Chemosphere, 2019, 236, 124288.	8.2	36
9	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. Chemosphere, 2019, 236, 124289.	8.2	16
10	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. Journal of Environmental Management, 2019, 251, 109524.	7.8	76
11	Volatile fatty acids and biogas recovery using thermophilic anaerobic membrane distillation bioreactor for wastewater reclamation. Journal of Environmental Management, 2019, 231, 833-842.	7.8	39
12	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. Environmental Science & Technology, 2018, 52, 2186-2196.	10.0	90
13	Dynamic solar-powered multi-stage direct contact membrane distillation system: Concept design, modeling and simulation. Desalination, 2018, 435, 278-292.	8.2	48
14	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. Desalination, 2018, 440, 146-155.	8.2	55
15	Membrane distillation for industrial wastewater treatment: Studying the effects of membrane parameters on the wetting performance. Chemosphere, 2018, 206, 793-801.	8.2	58
16	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. Desalination, 2017, 403, 187-198.	8.2	133
17	A statistics-based forward osmosis membrane characterization method without pressurized reverse osmosis experiment. Desalination, 2017, 403, 36-45.	8.2	13
18	CF4 plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. Journal of Membrane Science, 2017, 529, 234-242.	8.2	170

#	Article	IF	Citations
19	Effects of various chemical cleaning conditions for pressured MF process. Water Science and Technology, 2017, 75, 1063-1070.	2.5	2
20	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. Journal of Membrane Science, 2016, 513, 74-84.	8.2	107
21	Two-stage co-fermentation of lipid-extracted microalgae waste with food waste leachate: A viable way to reduce the inhibitory effect of leftover organic solvent and recover additional energy. International Journal of Hydrogen Energy, 2016, 41, 21721-21727.	7.1	15
22	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. Journal of Membrane Science, 2016, 520, 99-110.	8.2	167
23	A novel multi-stage direct contact membrane distillation module: Design, experimental and theoretical approaches. Water Research, 2016, 107, 47-56.	11.3	72
24	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. Journal of Membrane Science, 2016, 502, 158-170.	8.2	320
25	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. Journal of Membrane Science, 2016, 497, 430-449.	8.2	277
26	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. Desalination, 2016, 378, 80-91.	8.2	97
27	Modeling of full-scale reverse osmosis desalination system: Influence of operational parameters. Journal of Industrial and Engineering Chemistry, 2015, 21, 261-268.	5.8	42
28	Fouling and its control in membrane distillationâ€"A review. Journal of Membrane Science, 2015, 475, 215-244.	8.2	776
29	Theoretical analysis of different membrane distillation modules. Desalination and Water Treatment, 2015, 54, 862-870.	1.0	11
30	Recent progress of membrane distillation using electrospun nanofibrous membrane. Journal of Membrane Science, 2014, 453, 435-462.	8.2	318
31	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. Chemical Engineering Journal, 2014, 256, 155-159.	12.7	134
32	Effects of transmembrane pressure and ozonation on the reduction of ceramic membrane fouling during water reclamation. Desalination and Water Treatment, 2014, 52, 612-617.	1.0	10
33	Effects of water temperature on fouling and flux of ceramic membranes for wastewater reuse. Desalination and Water Treatment, 2013, 51, 5222-5230.	1.0	7
34	Integration of forward osmosis with membrane distillation: effect of operating conditions. Desalination and Water Treatment, 2013, 51, 5355-5361.	1.0	7
35	Effect of temperature difference on performance of membrane crystallization-based membrane distillation system. Desalination and Water Treatment, 2013, 51, 1362-1365.	1.0	6
36	Reduction of energy consumption in seawater reverse osmosis desalination pilot plant by using energy recovery devices. Desalination and Water Treatment, 2013, 51, 766-771.	1.0	21

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37	Analysis of reverse osmosis system performance using a genetic programming technique. Desalination and Water Treatment, 2012, 43, 281-290.	1.0	4
38	Understanding boron rejection by reverse osmosis membranes. Desalination and Water Treatment, 2010, 15, 129-133.	1.0	1
39	Theoretical investigation of hybrid desalination system combining reverse osmosis and forward osmosis. Desalination and Water Treatment, 2010, 15, 114-120.	1.0	19
40	Prediction of reverse osmosis membrane fouling due to scale formation in the presence of dissolved organic matters using genetic programming. Desalination and Water Treatment, 2010, 15, 121-128.	1.0	12
41	A systematic approach to determine the fouling index for a RO/NF membrane process. Desalination, 2009, 238, 117-127.	8.2	69
42	Scale formation in reverse osmosis desalination: model development. Desalination, 2009, 238, 333-346.	8.2	57
43	Small-scale desalination plants in Korea: Technical challenges. Desalination, 2009, 247, 222-232.	8.2	11
44	Energy management in submerged microfiltration systems by optimum control of aeration. Desalination, 2009, 247, 233-238.	8.2	9
45	Toward a combined system of forward osmosis and reverse osmosis for seawater desalination. Desalination, 2009, 247, 239-246.	8.2	125
46	Effect of axial variation of flux on filtration characteristics of hollow fiber membrane for drinking water treatment. Water Science and Technology: Water Supply, 2007, 7, 95-101.	2.1	4
47	Optimization and Control of Ozonation Plant Using Raw Water Characterization Method. Ozone: Science and Engineering, 2003, 25, 383-392.	2.5	8
48	Effect of brine concentration on membrane distillation process for seawater desalination. , 0, 77, 47-51.		2
49	Modeling and application of direct contact membrane distillation for fluoride removal from aqueous solutions. , 0, , 23-40.		2
50	Modeling and application of direct contact membrane distillation for fluoride removal from aqueous solutions. , 0, 97, 23-40.		5
51	Fabrication and characterization of moderately hydrophobic membrane with enhanced permeability using a phase-inversion method in membrane distillation. , 0, 183, 173-181.		4