

June-Seok Choi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,680
citations

318942

23
h-index

242451

47
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all docs

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docs citations

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times ranked

3613
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing performances of polyamide thin film composite membranes via co-solvent assisted interfacial polymerization. <i>Desalination</i> , 2022, 524, 115481.	4.0	11
2	Fabrication and characterization of high-performance acetone-assisted polyamide thin-film composite membranes for fluoridated saline water treatment. <i>Desalination</i> , 2022, 538, 115922.	4.0	9
3	Ammonia recovery from human urine as liquid fertilizers in hollow fiber membrane contactor: Effects of permeate chemistry. <i>Environmental Engineering Research</i> , 2021, 26, .	1.5	21
4	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
5	Reverse osmosis membrane fabrication and modification technologies and future trends: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 276, 102100.	7.0	137
6	Ensemble Model Development for the Prediction of a Disaster Index in Water Treatment Systems. <i>Water (Switzerland)</i> , 2020, 12, 3195.	1.2	9
7	Energy recovery through reverse electrodialysis: Harnessing the salinity gradient from the flushing of human urine. <i>Water Research</i> , 2020, 186, 116320.	5.3	17
8	Membrane-based technologies for zero liquid discharge and fluoride removal from industrial wastewater. <i>Chemosphere</i> , 2019, 236, 124288.	4.2	36
9	Analysis of mass transfer behavior in membrane distillation: Mathematical modeling under various conditions. <i>Chemosphere</i> , 2019, 236, 124289.	4.2	16
10	Removal of fluoride in membrane-based water and wastewater treatment technologies: Performance review. <i>Journal of Environmental Management</i> , 2019, 251, 109524.	3.8	76
11	Volatile fatty acids and biogas recovery using thermophilic anaerobic membrane distillation bioreactor for wastewater reclamation. <i>Journal of Environmental Management</i> , 2019, 231, 833-842.	3.8	39
12	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018, 52, 2186-2196.	4.6	90
13	Dynamic solar-powered multi-stage direct contact membrane distillation system: Concept design, modeling and simulation. <i>Desalination</i> , 2018, 435, 278-292.	4.0	48
14	Effects of volatile organic compounds on water recovery from produced water via vacuum membrane distillation. <i>Desalination</i> , 2018, 440, 146-155.	4.0	55
15	Membrane distillation for industrial wastewater treatment: Studying the effects of membrane parameters on the wetting performance. <i>Chemosphere</i> , 2018, 206, 793-801.	4.2	58
16	Electrospun dual-layer nonwoven membrane for desalination by air gap membrane distillation. <i>Desalination</i> , 2017, 403, 187-198.	4.0	133
17	A statistics-based forward osmosis membrane characterization method without pressurized reverse osmosis experiment. <i>Desalination</i> , 2017, 403, 36-45.	4.0	13
18	CF4 plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017, 529, 234-242.	4.1	170

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19	Effects of various chemical cleaning conditions for pressured MF process. <i>Water Science and Technology</i> , 2017, 75, 1063-1070.	1.2	2
20	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 513, 74-84.	4.1	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. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21721-21727.	3.8	15
22	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 99-110.	4.1	167
23	A novel multi-stage direct contact membrane distillation module: Design, experimental and theoretical approaches. <i>Water Research</i> , 2016, 107, 47-56.	5.3	72
24	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 502, 158-170.	4.1	320
25	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. <i>Journal of Membrane Science</i> , 2016, 497, 430-449.	4.1	277
26	Effect of heat-press conditions on electrospun membranes for desalination by direct contact membrane distillation. <i>Desalination</i> , 2016, 378, 80-91.	4.0	97
27	Modeling of full-scale reverse osmosis desalination system: Influence of operational parameters. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 261-268.	2.9	42
28	Fouling and its control in membrane distillation—A review. <i>Journal of Membrane Science</i> , 2015, 475, 215-244.	4.1	776
29	Theoretical analysis of different membrane distillation modules. <i>Desalination and Water Treatment</i> , 2015, 54, 862-870.	1.0	11
30	Recent progress of membrane distillation using electrospun nanofibrous membrane. <i>Journal of Membrane Science</i> , 2014, 453, 435-462.	4.1	318
31	A novel dual-layer bicomponent electrospun nanofibrous membrane for desalination by direct contact membrane distillation. <i>Chemical Engineering Journal</i> , 2014, 256, 155-159.	6.6	134
32	Effects of transmembrane pressure and ozonation on the reduction of ceramic membrane fouling during water reclamation. <i>Desalination and Water Treatment</i> , 2014, 52, 612-617.	1.0	10
33	Effects of water temperature on fouling and flux of ceramic membranes for wastewater reuse. <i>Desalination and Water Treatment</i> , 2013, 51, 5222-5230.	1.0	7
34	Integration of forward osmosis with membrane distillation: effect of operating conditions. <i>Desalination and Water Treatment</i> , 2013, 51, 5355-5361.	1.0	7
35	Effect of temperature difference on performance of membrane crystallization-based membrane distillation system. <i>Desalination and Water Treatment</i> , 2013, 51, 1362-1365.	1.0	6
36	Reduction of energy consumption in seawater reverse osmosis desalination pilot plant by using energy recovery devices. <i>Desalination and Water Treatment</i> , 2013, 51, 766-771.	1.0	21

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37	Analysis of reverse osmosis system performance using a genetic programming technique. <i>Desalination and Water Treatment</i> , 2012, 43, 281-290.	1.0	4
38	Understanding boron rejection by reverse osmosis membranes. <i>Desalination and Water Treatment</i> , 2010, 15, 129-133.	1.0	1
39	Theoretical investigation of hybrid desalination system combining reverse osmosis and forward osmosis. <i>Desalination and Water Treatment</i> , 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. <i>Desalination and Water Treatment</i> , 2010, 15, 121-128.	1.0	12
41	A systematic approach to determine the fouling index for a RO/NF membrane process. <i>Desalination</i> , 2009, 238, 117-127.	4.0	69
42	Scale formation in reverse osmosis desalination: model development. <i>Desalination</i> , 2009, 238, 333-346.	4.0	57
43	Small-scale desalination plants in Korea: Technical challenges. <i>Desalination</i> , 2009, 247, 222-232.	4.0	11
44	Energy management in submerged microfiltration systems by optimum control of aeration. <i>Desalination</i> , 2009, 247, 233-238.	4.0	9
45	Toward a combined system of forward osmosis and reverse osmosis for seawater desalination. <i>Desalination</i> , 2009, 247, 239-246.	4.0	125
46	Effect of axial variation of flux on filtration characteristics of hollow fiber membrane for drinking water treatment. <i>Water Science and Technology: Water Supply</i> , 2007, 7, 95-101.	1.0	4
47	Optimization and Control of Ozonation Plant Using Raw Water Characterization Method. <i>Ozone: Science and Engineering</i> , 2003, 25, 383-392.	1.4	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