Suhan Kim

List of Publications by Year
in descending order

50 papers	1,643 citations	394286 19 h-index	289141 40 g-index
50 all docs	50 docs citations	50 times ranked	1687 citing authors

#	Article	IF	Citations
1	Reconsidering clean-in-place criterion for low pressure membrane filtration systems using a model verified by long-term pilot plant operation data. Journal of Water Process Engineering, 2022, 46, 102506.	2.6	1
2	Reliability Assessment of Reverse Osmosis System Projection Programs. Daehan Hwan'gyeong Gonghag Hoeji, 2019, 41, 42-47.	0.4	2
3	Applicability of Statistics-based forward Osmosis Module Models. Daehan Hwan'gyeong Gonghag Hoeji, 2019, 41, 611-618.	0.4	0
4	A simple modeling approach for a forward osmosis system with a spiral wound module. Desalination, 2018, 433, 120-131.	4.0	26
5	Modeling methane production in anaerobic forward osmosis bioreactor using a modified anaerobic digestion model No. 1. Bioresource Technology, 2018, 264, 211-218.	4.8	25
6	Practical limit of energy production from seawater by full-scale pressure retarded osmosis. Energy, 2018, 158, 373-382.	4.5	22
7	Performance Analysis of a Spiral Wound Forward Osmosis Membrane Module. Daehan Hwan'gyeong Gonghag Hoeji, 2018, 40, 481-486.	0.4	1
8	A statistics-based forward osmosis membrane characterization method without pressurized reverse osmosis experiment. Desalination, 2017, 403, 36-45.	4.0	13
9	Aqueous Boron Removal by Using Electrospun Poly(vinyl alcohol) (PVA) Mats: A Combined Study of IR/Raman Spectroscopy and Computational Chemistry. Journal of Physical Chemistry A, 2017, 121, 2253-2258.	1.1	5
10	Predicting power density of pressure retarded osmosis (PRO) membranes using a new characterization method based on a single PRO test. Desalination, 2016, 389, 224-234.	4.0	16
11	Corrected normalized permeate flux for a statistics-based fouling detection method in seawater reverse osmosis process. Desalination and Water Treatment, 2016, 57, 24574-24582.	1.0	8
12	Evaluation of Humic Acid and Tannic Acid Fouling in Graphene Oxide-Coated Ultrafiltration Membranes. ACS Applied Materials & Interfaces, 2016, 8, 22270-22279.	4.0	56
13	An optimal design approach of forward osmosis and reverse osmosis hybrid process for seawater desalination. Desalination and Water Treatment, 2016, 57, 26612-26620.	1.0	13
14	A comprehensive review of hybrid forward osmosis systems: Performance, applications and future prospects. Journal of Membrane Science, 2016, 497, 430-449.	4.1	277
15	An optimal design approach of gas hydrate and reverse osmosis hybrid system for seawater desalination. Desalination and Water Treatment, 2016, 57, 9009-9017.	1.0	42
16	Enhanced boron removal using polyol compounds in seawater reverse osmosis processes. Desalination and Water Treatment, 2016, 57, 7910-7917.	1.0	15
17	Applicability of Temperature Correction Trans-membrane Pressure as a Fouling Index of Membrane Water Treatment Process. Journal of the Korean Society of Water and Wastewater, 2016, 30, 1-8.	0.3	0
18	Evaluation of energy consumption of gas hydrate and reverse osmosis hybrid system for seawater desalination. Journal of the Korean Society of Water and Wastewater, 2016, 30, 459-469.	0.3	1

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19	Factors affecting the removal of isopropyl alcohol by reverse osmosis membranes for ultrapure water production. Desalination and Water Treatment, 2015, 54, 916-922.	1.0	7
20	Evaluation of ceramic membrane applications for water treatment plants with a life cycle cost analysis. Desalination and Water Treatment, 2015, 54, 973-979.	1.0	33
21	Changes in characteristics of polyamide reverse osmosis membrane due to chlorine attack. Desalination and Water Treatment, 2015, 54, 923-928.	1.0	10
22	Modeling full-scale osmotic membrane bioreactor systems with high sludge retention and low salt concentration factor for wastewater reclamation. Bioresource Technology, 2015, 190, 508-515.	4.8	42
23	Design for seawater reverse osmosis plant using water blending in smart water grid. Journal of the Korean Society of Water and Wastewater, 2015, 29, 89-96.	0.3	3
24	Effect of flux fluctuation on the fouling in membrane water treatment system for smart water grid. Desalination and Water Treatment, 2014, 52, 1028-1034.	1.0	3
25	Special issue on the Challenges in Environmental Science and Engineering—CESE-2012 9–13 September 2012, RACV City Club, Melbourne, Australia. Desalination and Water Treatment, 2014, 52, 555-555.	1.0	0
26	Osmotic pressure-driven backwash in a pilot-scale reverse osmosis plant. Desalination and Water Treatment, 2014, 52, 580-588.	1.0	11
27	Scale-up of osmotic membrane bioreactors by modeling salt accumulation and draw solution dilution using hollow-fiber membrane characteristics and operation conditions. Bioresource Technology, 2014, 165, 88-95.	4.8	39
28	Selection of pretreatment process and reverse osmosis membrane for a wastewater reclamation system for the industrial water use. Desalination and Water Treatment, 2013, 51, 5466-5474.	1.0	9
29	Performance and modeling of zeolite adsorption for ammonia nitrogen removal. Desalination and Water Treatment, 2012, 43, 113-117.	1.0	4
30	Analysis of reverse osmosis system performance using a genetic programming technique. Desalination and Water Treatment, 2012, 43, 281-290.	1.0	4
31	The effect of fluctuation in flow rate on the performance of conventional and membrane water treatment for a smart water grid. Desalination and Water Treatment, 2012, 47, 17-23.	1.0	7
32	Challenges in Environmental Science and Engineering, CESE-2011: 25–30 September, Ever Green Plaza Hotel, Tainan City, Taiwan. Desalination and Water Treatment, 2012, 47, 1-2.	1.0	0
33	A statistical approach to analyze factors affecting silt density index. Desalination and Water Treatment, 2012, 45, 276-283.	1.0	8
34	Physical modifications to improve a channel's flow distribution. Korean Journal of Chemical Engineering, 2012, 29, 201-208.	1.2	6
35	An ambitious step to the future desalination technology: SEAHERO R&D program (2007–2012). Applied Water Science, 2011, 1, 11-17.	2.8	19
36	Iron and manganese fouling in microfiltration as a pretreatment of seawater reverse osmosis processes. Desalination and Water Treatment, 2011, 33, 323-328.	1.0	4

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37	SEAHERO R&D program and key strategies for the scale-up of a seawater reverse osmosis (SWRO) system. Desalination, 2009, 238, 1-9.	4.0	35
38	Effects of feed water temperature on separation performance and organic fouling of brackish water RO membranes. Desalination, 2009, 239, 346-359.	4.0	148
39	Enhanced or reduced concentration polarization by membrane fouling in seawater reverse osmosis (SWRO) processes. Desalination, 2009, 247, 162-168.	4.0	35
40	A new membrane performance index using flow-field flow fractionation (fl-FFF). Desalination, 2009, 247, 169-179.	4.0	6
41	Boron removal from seawater using NF and RO membranes, and effects of boron on HEK 293 human embryonic kidney cell with respect to toxicities. Desalination, 2008, 223, 23-30.	4.0	22
42	Reaggregation of Flocs in Coagulation-Cross-Flow Microfiltration. Journal of Environmental Engineering, ASCE, 2007, 133, 507-514.	0.7	8
43	Interactions controlling biopolymer fouling of reverse osmosis membranes. Desalination, 2007, 202, 333-342.	4.0	94
44	Natural organic matter fouling due to foulant–membrane physicochemical interactions. Desalination, 2007, 202, 377-384.	4.0	106
45	Pressure, flow, and concentration profiles in open and spacer-filled membrane channels. Journal of Membrane Science, 2006, 277, 7-17.	4.1	120
46	Crossflow membrane filtration of interacting nanoparticle suspensions. Journal of Membrane Science, 2006, 284, 361-372.	4.1	80
47	Modeling concentration polarization in reverse osmosis processes. Desalination, 2005, 186, 111-128.	4.0	220
48	Effective Diameter for Shear-Induced Diffusion for Characterizing Cake Formation in Crossflow Microfiltration at Polydisperse Conditions. Journal of Environmental Engineering, ASCE, 2005, 131, 865-873.	0.7	17
49	Applicability Assessment of Subcritical Flux Operation in Crossflow Microfiltration with a Concentration Polarization Model. Journal of Environmental Engineering, ASCE, 2002, 128, 335-340.	0.7	20
50	Can Full-Scale Pressure Retarded Osmosis System Derive Energy from the Ocean?. , 0, , .		0