

Suhan Kim

List of Publications by Year in descending order

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50
papers

1,643
citations

393982

19
h-index

288905

40
g-index

50
all docs

50
docs citations

50
times ranked

1687
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Modeling concentration polarization in reverse osmosis processes. <i>Desalination</i> , 2005, 186, 111-128.	4.0	220
3	Effects of feed water temperature on separation performance and organic fouling of brackish water RO membranes. <i>Desalination</i> , 2009, 239, 346-359.	4.0	148
4	Pressure, flow, and concentration profiles in open and spacer-filled membrane channels. <i>Journal of Membrane Science</i> , 2006, 277, 7-17.	4.1	120
5	Natural organic matter fouling due to foulant-membrane physicochemical interactions. <i>Desalination</i> , 2007, 202, 377-384.	4.0	106
6	Interactions controlling biopolymer fouling of reverse osmosis membranes. <i>Desalination</i> , 2007, 202, 333-342.	4.0	94
7	Crossflow membrane filtration of interacting nanoparticle suspensions. <i>Journal of Membrane Science</i> , 2006, 284, 361-372.	4.1	80
8	Evaluation of Humic Acid and Tannic Acid Fouling in Graphene Oxide-Coated Ultrafiltration Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22270-22279.	4.0	56
9	Modeling full-scale osmotic membrane bioreactor systems with high sludge retention and low salt concentration factor for wastewater reclamation. <i>Bioresource Technology</i> , 2015, 190, 508-515.	4.8	42
10	An optimal design approach of gas hydrate and reverse osmosis hybrid system for seawater desalination. <i>Desalination and Water Treatment</i> , 2016, 57, 9009-9017.	1.0	42
11	Scale-up of osmotic membrane bioreactors by modeling salt accumulation and draw solution dilution using hollow-fiber membrane characteristics and operation conditions. <i>Bioresource Technology</i> , 2014, 165, 88-95.	4.8	39
12	SEAHERO R&D program and key strategies for the scale-up of a seawater reverse osmosis (SWRO) system. <i>Desalination</i> , 2009, 238, 1-9.	4.0	35
13	Enhanced or reduced concentration polarization by membrane fouling in seawater reverse osmosis (SWRO) processes. <i>Desalination</i> , 2009, 247, 162-168.	4.0	35
14	Evaluation of ceramic membrane applications for water treatment plants with a life cycle cost analysis. <i>Desalination and Water Treatment</i> , 2015, 54, 973-979.	1.0	33
15	A simple modeling approach for a forward osmosis system with a spiral wound module. <i>Desalination</i> , 2018, 433, 120-131.	4.0	26
16	Modeling methane production in anaerobic forward osmosis bioreactor using a modified anaerobic digestion model No. 1. <i>Bioresource Technology</i> , 2018, 264, 211-218.	4.8	25
17	Boron removal from seawater using NF and RO membranes, and effects of boron on HEK 293 human embryonic kidney cell with respect to toxicities. <i>Desalination</i> , 2008, 223, 23-30.	4.0	22
18	Practical limit of energy production from seawater by full-scale pressure retarded osmosis. <i>Energy</i> , 2018, 158, 373-382.	4.5	22

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19	Applicability Assessment of Subcritical Flux Operation in Crossflow Microfiltration with a Concentration Polarization Model. <i>Journal of Environmental Engineering, ASCE</i> , 2002, 128, 335-340.	0.7	20
20	An ambitious step to the future desalination technology: SEAHERO R&D program (2007-2012). <i>Applied Water Science</i> , 2011, 1, 11-17.	2.8	19
21	Effective Diameter for Shear-Induced Diffusion for Characterizing Cake Formation in Crossflow Microfiltration at Polydisperse Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 865-873.	0.7	17
22	Predicting power density of pressure retarded osmosis (PRO) membranes using a new characterization method based on a single PRO test. <i>Desalination</i> , 2016, 389, 224-234.	4.0	16
23	Enhanced boron removal using polyol compounds in seawater reverse osmosis processes. <i>Desalination and Water Treatment</i> , 2016, 57, 7910-7917.	1.0	15
24	An optimal design approach of forward osmosis and reverse osmosis hybrid process for seawater desalination. <i>Desalination and Water Treatment</i> , 2016, 57, 26612-26620.	1.0	13
25	A statistics-based forward osmosis membrane characterization method without pressurized reverse osmosis experiment. <i>Desalination</i> , 2017, 403, 36-45.	4.0	13
26	Osmotic pressure-driven backwash in a pilot-scale reverse osmosis plant. <i>Desalination and Water Treatment</i> , 2014, 52, 580-588.	1.0	11
27	Changes in characteristics of polyamide reverse osmosis membrane due to chlorine attack. <i>Desalination and Water Treatment</i> , 2015, 54, 923-928.	1.0	10
28	Selection of pretreatment process and reverse osmosis membrane for a wastewater reclamation system for the industrial water use. <i>Desalination and Water Treatment</i> , 2013, 51, 5466-5474.	1.0	9
29	Reaggregation of Flocs in Coagulation-Cross-Flow Microfiltration. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 507-514.	0.7	8
30	A statistical approach to analyze factors affecting silt density index. <i>Desalination and Water Treatment</i> , 2012, 45, 276-283.	1.0	8
31	Corrected normalized permeate flux for a statistics-based fouling detection method in seawater reverse osmosis process. <i>Desalination and Water Treatment</i> , 2016, 57, 24574-24582.	1.0	8
32	The effect of fluctuation in flow rate on the performance of conventional and membrane water treatment for a smart water grid. <i>Desalination and Water Treatment</i> , 2012, 47, 17-23.	1.0	7
33	Factors affecting the removal of isopropyl alcohol by reverse osmosis membranes for ultrapure water production. <i>Desalination and Water Treatment</i> , 2015, 54, 916-922.	1.0	7
34	A new membrane performance index using flow-field flow fractionation (fl-FFF). <i>Desalination</i> , 2009, 247, 169-179.	4.0	6
35	Physical modifications to improve a channel's flow distribution. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 201-208.	1.2	6
36	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

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37	Iron and manganese fouling in microfiltration as a pretreatment of seawater reverse osmosis processes. <i>Desalination and Water Treatment</i> , 2011, 33, 323-328.	1.0	4
38	Performance and modeling of zeolite adsorption for ammonia nitrogen removal. <i>Desalination and Water Treatment</i> , 2012, 43, 113-117.	1.0	4
39	Analysis of reverse osmosis system performance using a genetic programming technique. <i>Desalination and Water Treatment</i> , 2012, 43, 281-290.	1.0	4
40	Effect of flux fluctuation on the fouling in membrane water treatment system for smart water grid. <i>Desalination and Water Treatment</i> , 2014, 52, 1028-1034.	1.0	3
41	Design for seawater reverse osmosis plant using water blending in smart water grid. <i>Journal of the Korean Society of Water and Wastewater</i> , 2015, 29, 89-96.	0.3	3
42	Reliability Assessment of Reverse Osmosis System Projection Programs. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2019, 41, 42-47.	0.4	2
43	Evaluation of energy consumption of gas hydrate and reverse osmosis hybrid system for seawater desalination. <i>Journal of the Korean Society of Water and Wastewater</i> , 2016, 30, 459-469.	0.3	1
44	Performance Analysis of a Spiral Wound Forward Osmosis Membrane Module. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2018, 40, 481-486.	0.4	1
45	Reconsidering clean-in-place criterion for low pressure membrane filtration systems using a model verified by long-term pilot plant operation data. <i>Journal of Water Process Engineering</i> , 2022, 46, 102506.	2.6	1
46	Challenges in Environmental Science and Engineering, CESE-2011: 25-30 September, Ever Green Plaza Hotel, Tainan City, Taiwan. <i>Desalination and Water Treatment</i> , 2012, 47, 1-2.	1.0	0
47	Special issue on the Challenges in Environmental Science and Engineering-CESE-2012 9-13 September 2012, RACV City Club, Melbourne, Australia. <i>Desalination and Water Treatment</i> , 2014, 52, 555-555.	1.0	0
48	Applicability of Temperature Correction Trans-membrane Pressure as a Fouling Index of Membrane Water Treatment Process. <i>Journal of the Korean Society of Water and Wastewater</i> , 2016, 30, 1-8.	0.3	0
49	Can Full-Scale Pressure Retarded Osmosis System Derive Energy from the Ocean?. , 0, , .		0
50	Applicability of Statistics-based forward Osmosis Module Models. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2019, 41, 611-618.	0.4	0