Sungyun Lee

List of Publications by Year
in descending order

29	1,312	471371	477173
papers	citations	17	29
		h-index	g-index

29	29	29	2045
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Desalination Technology in South Korea: A Comprehensive Review of Technology Trends and Future Outlook. Membranes, 2022, 12, 204.	1.4	13
2	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. Environmental Science & Technology, 2021, 55, 6984-6994.	4.6	25
3	Performance Comparison of Spiral-Wound and Plate-and-Frame Forward Osmosis Membrane Module. Membranes, 2020, 10, 318.	1.4	9
4	Exploring the Operation Factors that Influence Performance of a Spiral-Wound Forward Osmosis Membrane Process for Scale-up Design. Membranes, 2020, 10, 53.	1.4	4
5	Removal Efficiencies of Manganese and Iron Using Pristine and Phosphoric Acid Pre-Treated Biochars Made from Banana Peels. Water (Switzerland), 2020, 12, 1173.	1.2	31
6	Performance analysis of plate-and-frame forward osmosis membrane elements and implications for scale-up design. Journal of Membrane Science, 2018, 550, 219-229.	4.1	13
7	Evaluating the effects of organic matter bioavailability on nanofiltration membrane using real-time monitoring. Journal of Membrane Science, 2018, 548, 519-525.	4.1	15
8	Detection and Sizing of Ti-Containing Particles in Recreational Waters Using Single Particle ICP-MS. Bulletin of Environmental Contamination and Toxicology, 2018, 100, 120-126.	1.3	44
9	Evaluation of fouling in nanofiltration for desalination using a resistance-in-series model and optical coherence tomography. Science of the Total Environment, 2018, 642, 349-355.	3.9	34
10	Investigating the influence of organic matter composition on biofilm volumes in reverse osmosis using optical coherence tomography. Desalination, 2017, 419, 125-132.	4.0	15
11	Calcium carbonate scaling by reverse draw solute diffusion in a forward osmosis membrane for shale gas wastewater treatment. Journal of Membrane Science, 2017, 522, 257-266.	4.1	34
12	Critical impact of permeate-to-feed ratio and feed flow rate fraction on performance of pressure-retarded osmosis process. Desalination, 2016, 399, 128-137.	4.0	5
13	Experiment and modeling for performance of a spiral-wound pressure-retarded osmosis membrane module. Desalination and Water Treatment, 2016, 57, 10101-10110.	1.0	19
14	Characterization, Recovery Opportunities, and Valuation of Metals in Municipal Sludges from U.S. Wastewater Treatment Plants Nationwide. Environmental Science & Technology, 2015, 49, 9479-9488.	4.6	199
15	Quantitative resolution of nanoparticle sizes using single particle inductively coupled plasma mass spectrometry with the K-means clustering algorithm. Journal of Analytical Atomic Spectrometry, 2014, 29, 1630.	1.6	41
16	Nanoparticle Size Detection Limits by Single Particle ICP-MS for 40 Elements. Environmental Science & Technology, 2014, 48, 10291-10300.	4.6	366
17	Biotoxicity of nanoparticles: effect of natural organic matter. Journal of Nanoparticle Research, 2011, 13, 3051-3061.	0.8	73
18	Evaluation of a membrane bioreactor and nanofiltration for municipal wastewater reclamation: Trace contaminant control and fouling mitigation. Desalination, 2011, 272, 128-134.	4.0	64

#	ARTICLE	IF	CITATIONS
19	Developing organic fouling indices of microfiltration and nanofiltration membranes for wastewater reclamation. Desalination and Water Treatment, 2010, 18, 61-70.	1.0	14
20	Controlling various contaminants in wastewater effluent through membranes and engineered wetland. Frontiers of Environmental Science and Engineering in China, 2009, 3, 98-105.	0.8	5
21	Uncertainty in organic matter analysis for seawater reverse osmosis (SWRO) desalination. Desalination, 2009, 238, 30-36.	4.0	7
22	Measurement of size and number of suspended and dissolved nanoparticles in water for evaluation of colloidal fouling in RO membranes. Desalination, 2009, 238, 78-89.	4.0	13
23	Enhanced or reduced concentration polarization by membrane fouling in seawater reverse osmosis (SWRO) processes. Desalination, 2009, 247, 162-168.	4.0	35
24	A new membrane performance index using flow-field flow fractionation (fl-FFF). Desalination, 2009, 247, 169-179.	4.0	6
25	Efficient removals of tris(2-chloroethyl) phosphate (TCEP) and perchlorate using NF membrane filtrations. Desalination, 2008, 221, 234-237.	4.0	20
26	Characterization of marine organic matters and heavy metals with respect to desalination with RO and NF membranes. Desalination, 2008, 221, 244-252.	4.0	28
27	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
28	Natural organic matter fouling due to foulant–membrane physicochemical interactions. Desalination, 2007, 202, 377-384.	4.0	106
29	Determination of the Size of Water-Soluble Nanoparticles and Quantum Dots by Field-Flow Fractionation. Journal of Nanoscience and Nanotechnology, 2006, 6, 2461-2467.	0.9	52