

Minkyu Park

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,256
citations

21
h-index

35
g-index

49
ext. papers

1,507
ext. citations

9.6
avg, IF

5.03
L-index

#	Paper	IF	Citations
47	Reverse osmosis (RO) and pressure retarded osmosis (PRO) hybrid processes: Model-based scenario study. <i>Desalination</i> , 2013 , 322, 121-130	10.3	100
46	Predicting trace organic compound breakthrough in granular activated carbon using fluorescence and UV absorbance as surrogates. <i>Water Research</i> , 2015 , 76, 76-87	12.5	91
45	Adsorption of perfluoroalkyl substances (PFAS) in groundwater by granular activated carbons: Roles of hydrophobicity of PFAS and carbon characteristics. <i>Water Research</i> , 2020 , 170, 115364	12.5	89
44	Reducing ultrafiltration membrane fouling during potable water reuse using pre-ozonation. <i>Water Research</i> , 2017 , 125, 42-51	12.5	80
43	Simulation of forward osmosis membrane process: Effect of membrane orientation and flow direction of feed and draw solutions. <i>Desalination</i> , 2011 , 277, 83-91	10.3	80
42	Occurrence and fate of emerging trace organic chemicals in wastewater plants in Chennai, India. <i>Environment International</i> , 2016 , 92-93, 33-42	12.9	76
41	Numerical analysis of spacer impacts on forward osmosis membrane process using concentration polarization index. <i>Journal of Membrane Science</i> , 2013 , 427, 10-20	9.6	66
40	Determination of a constant membrane structure parameter in forward osmosis processes. <i>Journal of Membrane Science</i> , 2011 , 375, 241-248	9.6	60
39	Pre-ozonation for high recovery of nanofiltration (NF) membrane system: Membrane fouling reduction and trace organic compound attenuation. <i>Journal of Membrane Science</i> , 2017 , 523, 255-263	9.6	55
38	On-line sensor monitoring for chemical contaminant attenuation during UV/H ₂ O ₂ advanced oxidation process. <i>Water Research</i> , 2015 , 81, 250-60	12.5	51
37	Sample handling and data processing for fluorescent excitation-emission matrix (EEM) of dissolved organic matter (DOM). <i>Chemosphere</i> , 2018 , 193, 530-537	8.4	51
36	Predicting trace organic compound attenuation by ozone oxidation: Development of indicator and surrogate models. <i>Water Research</i> , 2017 , 119, 21-32	12.5	47
35	Application of surrogates, indicators, and high-resolution mass spectrometry to evaluate the efficacy of UV processes for attenuation of emerging contaminants in water. <i>Journal of Hazardous Materials</i> , 2015 , 282, 75-85	12.8	38
34	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. <i>Desalination</i> , 2013 , 314, 115-123	10.3	38
33	Magnetic ion-exchange (MIEX) resin for perfluorinated alkylsubstance (PFAS) removal in groundwater: Roles of atomic charges for adsorption. <i>Water Research</i> , 2020 , 181, 115897	12.5	31
32	Attenuation of pharmaceutically active compounds in aqueous solution by UV/CaO process: Influencing factors, degradation mechanism and pathways. <i>Water Research</i> , 2019 , 164, 114922	12.5	30
31	Predicting trace organic compound attenuation with spectroscopic parameters in powdered activated carbon processes. <i>Chemosphere</i> , 2016 , 156, 163-171	8.4	28

30	Wastewater compounds in urban shallow groundwater wells correspond to exfiltration probabilities of nearby sewers. <i>Water Research</i> , 2015 , 85, 467-75	12.5	27
29	Influence of colloidal fouling on pressure retarded osmosis. <i>Desalination</i> , 2016 , 389, 207-214	10.3	27
28	Performance analysis of reverse osmosis, membrane distillation, and pressure-retarded osmosis hybrid processes. <i>Desalination</i> , 2016 , 380, 85-92	10.3	23
27	A systematic optimization of Internally Staged Design (ISD) for a full-scale reverse osmosis process. <i>Journal of Membrane Science</i> , 2017 , 540, 285-296	9.6	21
26	A fouling model for simulating long-term performance of SWRO desalination process. <i>Journal of Membrane Science</i> , 2012 , 401-402, 282-291	9.6	20
25	Trace analysis of corticosteroids (CSs) in environmental waters by liquid chromatography-tandem mass spectrometry. <i>Talanta</i> , 2019 , 195, 830-840	6.2	15
24	Strategies for selecting indicator compounds to assess attenuation of emerging contaminants during UV advanced oxidation processes. <i>Water Research</i> , 2019 , 166, 115030	12.5	13
23	A review of extraction methods for the analysis of pharmaceuticals in environmental waters. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2271-2299	11.1	11
22	Numerical model-based analysis of energy-efficient reverse osmosis (EERO) process: Performance simulation and optimization. <i>Desalination</i> , 2019 , 453, 10-21	10.3	11
21	Modeling approaches to predict removal of trace organic compounds by ozone oxidation in potable reuse applications. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 699-708	4.2	10
20	Attenuation of contaminants of emerging concerns by nanofiltration membrane: rejection mechanism and application in water reuse 2020 , 177-206		8
19	Impacts of flow channel geometry, hydrodynamic and membrane properties on osmotic backwash of RO membranes CFD modeling and simulation. <i>Desalination</i> , 2020 , 476, 114229	10.3	8
18	Genotoxicity assay and potential byproduct identification during different UV-based water treatment processes. <i>Chemosphere</i> , 2019 , 217, 176-182	8.4	8
17	Formation of nitrogenous disinfection byproducts in MP UV-based water treatments of natural organic matters: The role of nitrate. <i>Water Research</i> , 2021 , 204, 117583	12.5	6
16	Incorporation of ozone-driven processes in a treatment line for a leachate from a hazardous industrial waste landfill: Impact on the bio-refractory character and dissolved organic matter distribution. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105554	6.8	5
15	How does the pre-treatment of landfill leachate impact the performance of O and O/UVC processes?. <i>Chemosphere</i> , 2021 , 278, 130389	8.4	5
14	Novel Spacer Design Using Topology Optimization in a Reverse Osmosis Channel. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	4
13	SeaHERO core technology and its research scope for a seawater reverse osmosis desalination system. <i>Desalination and Water Treatment</i> , 2010 , 15, 1-4		4

12	Pretreatment for water reuse using fluidized bed crystallization. <i>Journal of Water Process Engineering</i> , 2020 , 35, 101226	6.7	4
11	Quantification of Flood Runoff Reduction Effect of Storage Facilities by the Decrease in CN. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 729-733	1.8	3
10	A rapid performance diagnosis of seawater reverse osmosis membranes: simulation approach. <i>Desalination and Water Treatment</i> , 2010 , 15, 11-19		2
9	Remediation of surface water contaminated by pathogenic microorganisms using calcium peroxide: Matrix effect, micro-mechanisms and morphological-physiological changes.. <i>Water Research</i> , 2022 , 211, 118074	12.5	2
8	Formation and control of disinfection by-products from iodinated contrast media attenuation through sequential treatment processes of ozone-low pressure ultraviolet light followed by chlorination. <i>Chemosphere</i> , 2021 , 278, 130394	8.4	2
7	Energy-efficient removal of PFOA and PFOS in water using electrocoagulation with an air-cathode. <i>Chemosphere</i> , 2021 , 281, 130956	8.4	2
6	Statistical profiling for identifying transformation products in an engineered treatment process. <i>Chemosphere</i> , 2020 , 251, 126401	8.4	1
5	Tracking pollutants in a municipal sewage network impairing the operation of a wastewater treatment plant.. <i>Science of the Total Environment</i> , 2022 , 817, 152518	10.2	1
4	Exploring the genotoxicity triggers in the MP UV/HO-chloramination treatment of bisphenol A through bioassay coupled with non-targeted analysis. <i>Science of the Total Environment</i> , 2021 , 769, 145218	10.2	1
3	Deconvolution of Size Exclusion Chromatograms: New Insights into the Molecular Weight Distribution of Dissolved Organic Matter in Ozone and Biological Activated Carbon. <i>ACS ES&T Water</i> , 2021 , 1, 125-133		1
2	Transformative Catalysis Purifies Municipal Wastewater of Micropollutants. <i>ACS ES&T Water</i> , 2021 , 1, 2155-2163		0
1	Impacts of Spacers on Forward Osmosis Processes 2015 , 49-71		