Minkyu Park

List of Publications by Year
in descending order

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49 papers	1,816 citations	279778 23 h-index	265191 42 g-index
49 all docs	49 docs citations	49 times ranked	2070 citing authors

#	Article	IF	Citations
1	Adsorption of perfluoroalkyl substances (PFAS) in groundwater by granular activated carbons: Roles of hydrophobicity of PFAS and carbon characteristics. Water Research, 2020, 170, 115364.	11.3	215
2	Reverse osmosis (RO) and pressure retarded osmosis (PRO) hybrid processes: Model-based scenario study. Desalination, 2013, 322, 121-130.	8.2	113
3	Reducing ultrafiltration membrane fouling during potable water reuse using pre-ozonation. Water Research, 2017, 125, 42-51.	11.3	113
4	Predicting trace organic compound breakthrough in granular activated carbon using fluorescence and UV absorbance as surrogates. Water Research, 2015, 76, 76-87.	11.3	111
5	Occurrence and fate of emerging trace organic chemicals in wastewater plants in Chennai, India. Environment International, 2016, 92-93, 33-42.	10.0	95
6	Simulation of forward osmosis membrane process: Effect of membrane orientation and flow direction of feed and draw solutions. Desalination, 2011, 277, 83-91.	8.2	91
7	Sample handling and data processing for fluorescent excitation-emission matrix (EEM) of dissolved organic matter (DOM). Chemosphere, 2018, 193, 530-537.	8.2	77
8	Magnetic ion-exchange (MIEX) resin for perfluorinated alkylsubstance (PFAS) removal in groundwater: Roles of atomic charges for adsorption. Water Research, 2020, 181, 115897.	11.3	73
9	Numerical analysis of spacer impacts on forward osmosis membrane process using concentration polarization index. Journal of Membrane Science, 2013, 427, 10-20.	8.2	72
10	Pre-ozonation for high recovery of nanofiltration (NF) membrane system: Membrane fouling reduction and trace organic compound attenuation. Journal of Membrane Science, 2017, 523, 255-263.	8.2	70
11	Determination of a constant membrane structure parameter in forward osmosis processes. Journal of Membrane Science, 2011, 375, 241-248.	8.2	67
12	On-line sensor monitoring for chemical contaminant attenuation during UV/H2O2 advanced oxidation process. Water Research, 2015, 81, 250-260.	11.3	58
13	Predicting trace organic compound attenuation by ozone oxidation: Development of indicator and surrogate models. Water Research, 2017, 119, 21-32.	11.3	57
14	Attenuation of pharmaceutically active compounds in aqueous solution by UV/CaO2 process: Influencing factors, degradation mechanism and pathways. Water Research, 2019, 164, 114922.	11.3	54
15	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. Desalination, 2013, 314, 115-123.	8.2	43
16	Application of surrogates, indicators, and high-resolution mass spectrometry to evaluate the efficacy of UV processes for attenuation of emerging contaminants in water. Journal of Hazardous Materials, 2015, 282, 75-85.	12.4	41
17	Wastewater compounds in urban shallow groundwater wells correspond to exfiltration probabilities of nearby sewers. Water Research, 2015, 85, 467-475.	11.3	40
18	Performance analysis of reverse osmosis, membrane distillation, and pressure-retarded osmosis hybrid processes. Desalination, 2016, 380, 85-92.	8.2	35

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19	Influence of colloidal fouling on pressure retarded osmosis. Desalination, 2016, 389, 207-214.	8.2	32
20	Predicting trace organic compound attenuation with spectroscopic parameters in powdered activated carbon processes. Chemosphere, 2016, 156, 163-171.	8.2	31
21	A systematic optimization of Internally Staged Design (ISD) for a full-scale reverse osmosis process. Journal of Membrane Science, 2017, 540, 285-296.	8.2	31
22	Strategies for selecting indicator compounds to assess attenuation of emerging contaminants during UV advanced oxidation processes. Water Research, 2019, 166, 115030.	11.3	25
23	Trace analysis of corticosteroids (CSs) in environmental waters by liquid chromatographyâ€“tandem mass spectrometry. Talanta, 2019, 195, 830-840.	5.5	25
24	A fouling model for simulating long-term performance of SWRO desalination process. Journal of Membrane Science, 2012, 401-402, 282-291.	8.2	23
25	A review of extraction methods for the analysis of pharmaceuticals in environmental waters. Critical Reviews in Environmental Science and Technology, 2020, 50, 2271-2299.	12.8	21
26	Numerical model-based analysis of energy-efficient reverse osmosis (EERO) process: Performance simulation and optimization. Desalination, 2019, 453, 10-21.	8.2	17
27	Formation of nitrogenous disinfection byproducts in MP UV-based water treatments of natural organic matters: The role of nitrate. Water Research, 2021, 204, 117583.	11.3	17
28	Tracking pollutants in a municipal sewage network impairing the operation of a wastewater treatment plant. Science of the Total Environment, 2022, 817, 152518.	8.0	16
29	Energy-efficient removal of PFOA and PFOS in water using electrocoagulation with an air-cathode. Chemosphere, 2021, 281, 130956.	8.2	15
30	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. Journal of Environmental Chemical Engineering, 2021, 9, 105554.	6.7	14
31	Impacts of flow channel geometry, hydrodynamic and membrane properties on osmotic backwash of RO membranesâ€”CFD modeling and simulation. Desalination, 2020, 476, 114229.	8.2	13
32	Remediation of surface water contaminated by pathogenic microorganisms using calcium peroxide: Matrix effect, micro-mechanisms and morphological-physiological changes. Water Research, 2022, 211, 118074.	11.3	13
33	Genotoxicity assay and potential byproduct identification during different UV-based water treatment processes. Chemosphere, 2019, 217, 176-182.	8.2	12
34	How does the pre-treatment of landfill leachate impact the performance of O3 and O3/UVC processes?. Chemosphere, 2021, 278, 130389.	8.2	12
35	Modeling approaches to predict removal of trace organic compounds by ozone oxidation in potable reuse applications. Environmental Science: Water Research and Technology, 2015, 1, 699-708.	2.4	11
36	Pretreatment for water reuse using fluidized bed crystallization. Journal of Water Process Engineering, 2020, 35, 101226.	5.6	11

#	Article	IF	Citations
37	Attenuation of contaminants of emerging concerns by nanofiltration membrane: rejection mechanism and application in water reuse. , 2020, , 177-206.		10
38	Deconvolution of Size Exclusion Chromatograms: New Insights into the Molecular Weight Distribution of Dissolved Organic Matter in Ozone and Biological Activated Carbon. ACS ES&T Water, 2021, 1, 125-133.	4.6	9
39	SeaHERO core technology and its research scope for a seawater reverse osmosis desalination system. Desalination and Water Treatment, 2010, 15, 1-4.	1.0	6
40	A rapid performance diagnosis of seawater reverse osmosis membranes: simulation approach. Desalination and Water Treatment, 2010, 15, 11-19.	1.0	5
41	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. Chemosphere, 2021, 278, 130394.	8.2	5
42	Quantification of Flood Runoff Reduction Effect of Storage Facilities by the Decrease in CN. Journal of Hydrologic Engineering - ASCE, 2013, 18, 729-733.	1.9	4
43	Novel Spacer Design Using Topology Optimization in a Reverse Osmosis Channel. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	4
44	Statistical profiling for identifying transformation products in an engineered treatment process. Chemosphere, 2020, 251, 126401.	8.2	3
45	Transformative Catalysis Purifies Municipal Wastewater of Micropollutants. ACS ES&T Water, 2021, 1, 2155-2163.	4.6	3
46	Exploring the genotoxicity triggers in the MP UV/H2O2-chloramination treatment of bisphenol A through bioassay coupled with non-targeted analysis. Science of the Total Environment, 2021, 769, 145218.	8.0	2
47	Removal of 26 corticosteroids, potential COVID-19 remedies, at environmentally relevant concentrations in water using UV/free chlorine, UV/monochloramine, and UV/hydrogen peroxide. Environmental Science: Water Research and Technology, 0, , .	2.4	1
48	Topology Optimization of Spacers for Maximizing Permeate Flux on Membrane Surface in Reverse Osmosis Channel. , 2011, , .		0
49	Impacts of Spacers on Forward Osmosis Processes. , 2015, , 49-71.		0