

Joon Ha Kim

List of Publications by Year in descending order

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109
papers

3,611
citations

101384

36
h-index

143772

57
g-index

110
all docs

110
docs citations

110
times ranked

3585
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of effluent concentration in a wastewater treatment plant using machine learning models. <i>Journal of Environmental Sciences</i> , 2015, 32, 90-101.	3.2	180
2	Development of early-warning protocol for predicting chlorophyll-a concentration using machine learning models in freshwater and estuarine reservoirs, Korea. <i>Science of the Total Environment</i> , 2015, 502, 31-41.	3.9	176
3	Overview of systems engineering approaches for a large-scale seawater desalination plant with a reverse osmosis network. <i>Desalination</i> , 2009, 238, 312-332.	4.0	155
4	Linking land-use type and stream water quality using spatial data of fecal indicator bacteria and heavy metals in the Yeongsan river basin. <i>Water Research</i> , 2010, 44, 4143-4157.	5.3	143
5	Toward a combined system of forward osmosis and reverse osmosis for seawater desalination. <i>Desalination</i> , 2009, 247, 239-246.	4.0	125
6	Prediction of contamination potential of groundwater arsenic in Cambodia, Laos, and Thailand using artificial neural network. <i>Water Research</i> , 2011, 45, 5535-5544.	5.3	115
7	Reverse osmosis (RO) and pressure retarded osmosis (PRO) hybrid processes: Model-based scenario study. <i>Desalination</i> , 2013, 322, 121-130.	4.0	113
8	The relative importance of water temperature and residence time in predicting cyanobacteria abundance in regulated rivers. <i>Water Research</i> , 2017, 124, 11-19.	5.3	100
9	Release of <i>Escherichia coli</i> from the bottom sediment in a first-order creek: Experiment and reach-specific modeling. <i>Journal of Hydrology</i> , 2010, 391, 322-332.	2.3	99
10	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.	4.0	91
11	Molecular dynamics simulations in membrane-based water treatment processes: A systematic overview. <i>Journal of Membrane Science</i> , 2013, 438, 112-125.	4.1	89
12	Smart water grid: the future water management platform. <i>Desalination and Water Treatment</i> , 2015, 55, 339-346.	1.0	86
13	Thin-film nanocomposite membrane with CNT positioning in support layer for energy harvesting from saline water. <i>Chemical Engineering Journal</i> , 2016, 284, 68-77.	6.6	85
14	Meteorological effects on the levels of fecal indicator bacteria in an urban stream: A modeling approach. <i>Water Research</i> , 2010, 44, 2189-2202.	5.3	83
15	The modified SWAT model for predicting fecal coliforms in the Wachusett Reservoir Watershed, USA. <i>Water Research</i> , 2012, 46, 4750-4760.	5.3	76
16	Numerical analysis of spacer impacts on forward osmosis membrane process using concentration polarization index. <i>Journal of Membrane Science</i> , 2013, 427, 10-20.	4.1	72
17	Artificial neural network model for optimizing operation of a seawater reverse osmosis desalination plant. <i>Desalination</i> , 2009, 247, 180-189.	4.0	68
18	Determination of a constant membrane structure parameter in forward osmosis processes. <i>Journal of Membrane Science</i> , 2011, 375, 241-248.	4.1	67

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19	Recent Advances in Osmotic Energy Generation via Pressure-Retarded Osmosis (PRO): A Review. <i>Energies</i> , 2015, 8, 11821-11845.	1.6	63
20	Public Mis-Notification of Coastal Water Quality: A Probabilistic Evaluation of Posting Errors at Huntington Beach, California. <i>Environmental Science & Technology</i> , 2004, 38, 2497-2504.	4.6	62
21	Locating Sources of Surf Zone Pollution: A Mass Budget Analysis of Fecal Indicator Bacteria at Huntington Beach, California. <i>Environmental Science & Technology</i> , 2004, 38, 2626-2636.	4.6	60
22	Scale formation in reverse osmosis desalination: model development. <i>Desalination</i> , 2009, 238, 333-346.	4.0	57
23	Spacer optimization strategy for direct contact membrane distillation: Shapes, configurations, diameters, and numbers of spacer filaments. <i>Desalination</i> , 2017, 417, 9-18.	4.0	49
24	An optimization strategy for a forward osmosis-reverse osmosis hybrid process for wastewater reuse and seawater desalination: A modeling study. <i>Desalination</i> , 2019, 463, 40-49.	4.0	49
25	Developing a flow control strategy to reduce nutrient load in a reclaimed multi-reservoir system using a 2D hydrodynamic and water quality model. <i>Science of the Total Environment</i> , 2014, 466-467, 871-880.	3.9	48
26	Modeling seasonal variability of fecal coliform in natural surface waters using the modified SWAT. <i>Journal of Hydrology</i> , 2016, 535, 377-385.	2.3	48
27	Absence of <i>Escherichia coli</i> Phylogenetic Group B2 Strains in Humans and Domesticated Animals from Jeonnam Province, Republic of Korea. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5659-5666.	1.4	46
28	Overview of pressure-retarded osmosis (PRO) process and hybrid application to sea water reverse osmosis process. <i>Desalination and Water Treatment</i> , 2012, 43, 193-200.	1.0	44
29	Modeling of colloidal fouling in forward osmosis membrane: Effects of reverse draw solution permeation. <i>Desalination</i> , 2013, 314, 115-123.	4.0	43
30	Temperature Prediction Using the Missing Data Refinement Model Based on a Long Short-Term Memory Neural Network. <i>Atmosphere</i> , 2019, 10, 718.	1.0	43
31	A comprehensive review of the feasibility of pressure retarded osmosis: Recent technological advances and industrial efforts towards commercialization. <i>Desalination</i> , 2020, 491, 114501.	4.0	43
32	Determination of the optimal parameters in regression models for the prediction of chlorophyll-a: A case study of the Yeongsan Reservoir, Korea. <i>Science of the Total Environment</i> , 2009, 407, 2536-2545.	3.9	42
33	Characteristics of wet and dry weather heavy metal discharges in the Yeongsan Watershed, Korea. <i>Science of the Total Environment</i> , 2009, 407, 3482-3493.	3.9	41
34	Prediction of membrane fouling in the pilot-scale microfiltration system using genetic programming. <i>Desalination</i> , 2009, 247, 285-294.	4.0	41
35	New methodology of evaluation of best management practices performances for an agricultural watershed according to the climate change scenarios: A hybrid use of deterministic and decision support models. <i>Ecological Engineering</i> , 2018, 119, 73-83.	1.6	38
36	Advancing assessment and design of stormwater monitoring programs using a self-organizing map: Characterization of trace metal concentration profiles in stormwater runoff. <i>Water Research</i> , 2011, 45, 4183-4197.	5.3	37

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37	Assessment on Hydrologic Response by Climate Change in the Chao Phraya River Basin, Thailand. <i>Water (Switzerland)</i> , 2015, 7, 6892-6909.	1.2	36
38	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
39	Arsenic levels in human hair, Kandal Province, Cambodia: The influences of groundwater arsenic, consumption period, age and gender. <i>Applied Geochemistry</i> , 2010, 25, 81-90.	1.4	35
40	Performance analysis of reverse osmosis, membrane distillation, and pressure-retarded osmosis hybrid processes. <i>Desalination</i> , 2016, 380, 85-92.	4.0	35
41	Influence of colloidal fouling on pressure retarded osmosis. <i>Desalination</i> , 2016, 389, 207-214.	4.0	32
42	Decadal and seasonal scale changes of an artificial lake environment after blocking tidal flows in the Yeongsan Estuary region, Korea. <i>Science of the Total Environment</i> , 2009, 407, 6063-6072.	3.9	31
43	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.	4.1	31
44	Stressor response modeling using the 2D water quality model and regression trees to predict chlorophyll-a in a reservoir system. <i>Journal of Hydrology</i> , 2015, 529, 805-815.	2.3	27
45	Evaluation of the relationship between two different methods for enumeration fecal indicator bacteria: Colony-forming unit and most probable number. <i>Journal of Environmental Sciences</i> , 2010, 22, 846-850.	3.2	26
46	Development of enhanced groundwater arsenic prediction model using machine learning approaches in Southeast Asian countries. <i>Desalination and Water Treatment</i> , 2016, 57, 12227-12236.	1.0	26
47	Factors dominating stratification cycle and seasonal water quality variation in a Korean estuarine reservoir. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1072.	2.1	25
48	A fouling model for simulating long-term performance of SWRO desalination process. <i>Journal of Membrane Science</i> , 2012, 401-402, 282-291.	4.1	23
49	High diversity and abundance of antibiotic-resistant <i>Escherichia coli</i> isolated from humans and farm animal hosts in Jeonnam Province, South Korea. <i>Science of the Total Environment</i> , 2010, 408, 3499-3506.	3.9	22
50	Site-specific raw seawater quality impact study on SWRO process for optimizing operation of the pressurized step. <i>Desalination</i> , 2009, 238, 140-157.	4.0	20
51	Modeling and Simulation Studies Analyzing the Pressure-Retarded Osmosis (PRO) and PRO-Hybridized Processes. <i>Energies</i> , 2019, 12, 243.	1.6	20
52	Theoretical investigation of hybrid desalination system combining reverse osmosis and forward osmosis. <i>Desalination and Water Treatment</i> , 2010, 15, 114-120.	1.0	19
53	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
54	A simulation study with a new performance index for pressure-retarded osmosis processes hybridized with seawater reverse osmosis and membrane distillation. <i>Desalination</i> , 2018, 444, 118-128.	4.0	19

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55	Energy saving methodology for the SWRO desalination process: control of operating temperature and pressure. <i>Desalination</i> , 2009, 247, 260-270.	4.0	17
56	A control methodology for the feed water temperature to optimize SWRO desalination process using genetic programming. <i>Desalination</i> , 2009, 247, 190-199.	4.0	17
57	Review of seawater natural organic matter fouling and reverse osmosis transport modeling for seawater reverse osmosis desalination. <i>Desalination and Water Treatment</i> , 2010, 15, 92-107.	1.0	17
58	Interpretation of seasonal water quality variation in the Yeongsan Reservoir, Korea using multivariate statistical analyses. <i>Water Science and Technology</i> , 2009, 59, 2219-2226.	1.2	16
59	Spatial and temporal variability of fecal indicator bacteria in an urban stream under different meteorological regimes. <i>Water Science and Technology</i> , 2010, 61, 3102-3108.	1.2	15
60	Prevalence of season-specific <i>Escherichia coli</i> strains in the Yeongsan River Basin of South Korea. <i>Environmental Microbiology</i> , 2011, 13, 3103-3113.	1.8	15
61	Molecular dynamics simulation of seawater reverse osmosis desalination using carbon nanotube membranes. <i>Desalination and Water Treatment</i> , 2016, 57, 20169-20176.	1.0	15
62	Modeling spatiotemporal bacterial variability with meteorological and watershed land-use characteristics. <i>Water Research</i> , 2016, 100, 306-315.	5.3	14
63	Development of a package model for process simulation and cost estimation of seawater reverse osmosis desalination plant. <i>Desalination</i> , 2009, 247, 326-335.	4.0	13
64	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.	4.0	13
65	Analysis of the relation between pollutant loading and water depth flowrate changes in a constructed wetland for agricultural nonpoint source pollution management. <i>Ecological Engineering</i> , 2020, 152, 105841.	1.6	13
66	Solar and Tidal Modulations of Fecal Indicator Bacteria in Coastal Waters at Huntington Beach, California. <i>Environmental Management</i> , 2007, 39, 867-875.	1.2	12
67	Prediction of reverse osmosis membrane fouling due to scale formation in the presence of dissolved organic matters using genetic programming. <i>Desalination and Water Treatment</i> , 2010, 15, 121-128.	1.0	12
68	Effect of environmental flow management on river water quality: a case study at Yeongsan River, Korea. <i>Water Science and Technology</i> , 2009, 59, 2437-2446.	1.2	11
69	Evaluation of pollutants removal efficiency to achieve successful urban river restoration. <i>Water Science and Technology</i> , 2009, 59, 2101-2109.	1.2	11
70	Factors affecting metal exchange between sediment and water in an estuarine reservoir: A spatial and seasonal observation. <i>Journal of Environmental Monitoring</i> , 2009, 11, 2058.	2.1	9
71	Optimal strategies of fill and aeration in a sequencing batch reactor for biological nitrogen and carbon removal. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 925-929.	1.2	9
72	Time-series image analysis for investigating SWRO fouling mechanism. <i>Desalination and Water Treatment</i> , 2012, 43, 212-220.	1.0	9

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73	Pressure Retarded Osmosis Process: Current Status and Future. Daehan Hwan'gyeong Gonghag Hoeji, 2014, 36, 791-802.	0.4	9
74	Water quality changes according to the midstream weir construction in the Yeongsan River, Korea. Desalination and Water Treatment, 2015, 53, 3066-3071.	1.0	8
75	Mass Load-Based Pollution Management of the Han River and Its Tributaries, Korea. Environmental Management, 2008, 41, 12-19.	1.2	6
76	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
77	Diffuse pollutant unit loads of various transportation landuses. Desalination and Water Treatment, 2012, 38, 222-229.	1.0	6
78	Online estimation of fouling development for SWRO system using real data. Desalination, 2009, 247, 200-209.	4.0	5
79	Application of hybrid systems techniques for cleaning and replacement of a RO membrane. Desalination, 2009, 247, 25-32.	4.0	5
80	A rapid performance diagnosis of seawater reverse osmosis membranes: simulation approach. Desalination and Water Treatment, 2010, 15, 11-19.	1.0	5
81	Modeling of solute transport in multi-component solution for reverse osmosis membranes. Desalination and Water Treatment, 2010, 15, 20-28.	1.0	5
82	New ecological health assessment approaches of an urban stream using molecular and physiological level biomarkers and bioindicators. Animal Cells and Systems, 2012, 16, 329-336.	0.8	5
83	Impact of hydraulic pressure and pH on organic fouling in pressure retarded osmosis (PRO) process. Desalination and Water Treatment, 2016, 57, 10121-10128.	1.0	5
84	Investigation of stormwater runoff strength in an agricultural area, Korea. Desalination and Water Treatment, 2012, 38, 360-365.	1.0	4
85	Fluorescence imaging for biofoulants detection and monitoring of biofouled strength in reverse osmosis membrane. Analytical Methods, 2014, 6, 993-1000.	1.3	4
86	Smart water grid: desalination water management platform. Desalination and Water Treatment, 2016, 57, 2845-2854.	1.0	4
87	Modeling seawater reverse osmosis system under degradation conditions of membrane performance: assessment of isobaric energy recovery devices and feed pressure control benefits. Desalination and Water Treatment, 2016, 57, 20210-20218.	1.0	4
88	Integration of PRO into Desalination Processes. , 2017, , 129-151.		4
89	Feasibility study on tri-hybrid desalination system. Desalination and Water Treatment, 2010, 15, 35-42.	1.0	3
90	Particle removal properties of stormwater runoff with a lab-scale vortex separator. Desalination and Water Treatment, 2012, 38, 301-305.	1.0	3

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91	Application of coagulation process for the treatment of combined sewer overflows (CSOs). Desalination and Water Treatment, 2013, 51, 4063-4071.	1.0	3
92	Developing alternative regression models for describing water quality using a self-organizing map. Desalination and Water Treatment, 2016, 57, 20146-20158.	1.0	3
93	Theoretical Analysis of a Mathematical Relation between Driving Pressures in Membrane-Based Desalting Processes. Membranes, 2021, 11, 220.	1.4	3
94	A new methodology for determining dispersion coefficient using ordinary and partial differential transport equations. Water Science and Technology, 2009, 59, 2197-2203.	1.2	2
95	Potassium Recovery from Potassium Solution and Seawater Using Different Adsorbents. Applied Sciences (Switzerland), 2021, 11, 8660.	1.3	2
96	Occurrence of Antibiotic Resistant E. coli in Surface Water: A Study in a Typical Urban Watershed, Korea. Water Practice and Technology, 2010, 5, .	1.0	1
97	Understanding boron rejection by reverse osmosis membranes. Desalination and Water Treatment, 2010, 15, 129-133.	1.0	1
98	Application of World Ocean Atlas data for estimating the relative performance of a new construction of SWRO desalination plant. Desalination and Water Treatment, 2010, 15, 5-10.	1.0	1
99	Membrane-based SWRO pretreatment: Knowledge discovery in databases using principal component analysis regression. Desalination and Water Treatment, 2010, 15, 160-166.	1.0	1
100	Total annual profits estimation for new construction of an SWRO desalination plant in Korea. Desalination and Water Treatment, 2010, 15, 108-113.	1.0	1
101	Ripening of granular media filters for pretreatment of seawater in membrane desalination. Desalination and Water Treatment, 2010, 15, 29-34.	1.0	1
102	Comparison of numerical schemes for improved prediction model of fecal indicator bacteria in a riverine system. Desalination and Water Treatment, 2012, 38, 373-381.	1.0	1
103	Techno-economical approach of GAC and microfiltration as a coagulant-free pre-treatment of seawater desalination. Desalination and Water Treatment, 2012, 42, 87-93.	1.0	1
104	Characterizing particle size distribution of nonpoint source pollutants in an agricultural area. Desalination and Water Treatment, 2013, 51, 4138-4145.	1.0	1
105	Influence of spatial resolution of radar images on the parameterization and performance of SWAT model. Desalination and Water Treatment, 2016, , 1-9.	1.0	1
106	Advanced total phosphorus removal approach: system design and combined sewer overflows (CSOs) sludge application. Desalination and Water Treatment, 2013, 51, 4072-4080.	1.0	0
107	Impacts of Spacers on Forward Osmosis Processes. , 2015, , 49-71.		0
108	Developing statistical models for estimating chlorophyll <i>a</i> and total suspended solid levels at an estuarine reservoir with nutrient inputs from satellite observations. Desalination and Water Treatment, 0, , 1-14.	1.0	0

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109	Finding sources and sinks of fluorescent dissolved organic matter in a riverine system using parallel factor model. <i>Desalination and Water Treatment</i> , 2016, 57, 20199-20209.	1.0	0