Dae Ryook Yang

List of Publications by Year in descending order

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Version: 2024-02-01

102 papers 2,155 citations

236925 25 h-index 243625 44 g-index

102 all docs 102 docs citations 102 times ranked 2043 citing authors

#	Article	IF	CITATIONS
1	A comprehensive review of energy consumption of seawater reverse osmosis desalination plants. Applied Energy, 2019, 254, 113652.	10.1	284
2	Gliding arc plasma processing of CO2 conversion. Journal of Hazardous Materials, 2007, 146, 309-315.	12.4	170
3	Towards a low-energy seawater reverse osmosis desalination plant: A review and theoretical analysis for future directions. Journal of Membrane Science, 2020, 595, 117607.	8.2	154
4	Toward a combined system of forward osmosis and reverse osmosis for seawater desalination. Desalination, 2009, 247, 239-246.	8.2	125
5	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
6	Mathematical model of flat sheet membrane modules for FO process: Plate-and-frame module and spiral-wound module. Journal of Membrane Science, 2011, 379, 403-415.	8.2	85
7	Artificial neural network model for optimizing operation of a seawater reverse osmosis desalination plant. Desalination, 2009, 247, 180-189.	8.2	68
8	Experimental application of a quadratic optimal iterative learning control method for control of wafer temperature uniformity in rapid thermal processing. IEEE Transactions on Semiconductor Manufacturing, 2003, 16, 36-44.	1.7	63
9	Advanced VOCs decomposition method by gliding arc plasma. Chemical Engineering Journal, 2007, 131, 337-341.	12.7	54
10	Partial oxidation of methane with Cu–Zn–Al catalyst in a dielectric barrier discharge. Chemical Engineering and Processing: Process Intensification, 2008, 47, 780-786.	3.6	48
11	Optimization on a new hybrid Forward osmosis-Electrodialysis-Reverse osmosis seawater desalination process. Desalination, 2016, 398, 265-281.	8.2	43
12	Completion times and optimal scheduling for serial multi-product processes with transfer and set-up times in zero-wait policy. Computers and Chemical Engineering, 1994, 18, 537-543.	3.8	35
13	Integrated run-to-run and on-line model-based control of particle size distribution for a semi-batch precipitation reactor. Computers and Chemical Engineering, 2002, 26, 1117-1131.	3.8	35
14	Comprehensive analysis of a hybrid FO/crystallization/RO process for improving its economic feasibility to seawater desalination. Water Research, 2020, 171, 115426.	11.3	34
15	Development and Current Status of the Korea Thermophysical Properties Databank (KDB). International Journal of Thermophysics, 2001, 22, 487-494.	2.1	31
16	Effect of potassium addition on bimetallic PtSn supported Î,-Al2O3 catalyst for n-butane dehydrogenation to olefins. Catalysis Today, 2014, 232, 40-52.	4.4	31
17	Cost-based feasibility study and sensitivity analysis of a new draw solution assisted reverse osmosis (DSARO) process for seawater desalination. Desalination, 2017, 422, 182-193.	8.2	30
18	Feasibility study of a forward osmosis/crystallization/reverse osmosis hybrid process with high-temperature operation: Modeling, experiments, and energy consumption. Journal of Membrane Science, 2018, 555, 206-219.	8.2	30

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19	Lys296 and Arg299 residues in the C-terminus of MD-ACO1 are essential for a 1-aminocyclopropane-1-carboxylate oxidase enzyme activity. Journal of Structural Biology, 2006, 156, 407-420.	2.8	29
20	Modeling and Parameter Identification of the Simultaneous Saccharification-Fermentation Process for Ethanol Production. Biotechnology Progress, 2007, 23, 1454-1462.	2.6	29
21	Indirect adaptive nonlinear control of a pH process. Computers and Chemical Engineering, 2002, 26, 1223-1230.	3.8	27
22	The active site and substrate-binding mode of 1-aminocyclopropane-1-carboxylate oxidase determined by site-directed mutagenesis and comparative modelling studies. Biochemical Journal, 2004, 380, 339-346.	3.7	27
23	Theoretical analysis of a seawater desalination process integrating forward osmosis, crystallization, and reverse osmosis. Journal of Membrane Science, 2013, 444, 440-448.	8.2	27
24	Theoretical Analysis of Pressure Retarded Membrane Distillation (PRMD) Process for Simultaneous Production of Water and Electricity. Industrial & Engineering Chemistry Research, 2017, 56, 14888-14901.	3.7	27
25	The process design and simulation for the methanol production on the FPSO (floating production,) Tj ETQq $1\ 1\ 0$).784314 i 5.6	rgBT/Overlo
26	Low-recovery, -energy-consumption, -emission hybrid systems of seawater desalination: Energy optimization and cost analysis. Desalination, 2019, 468, 114085.	8.2	26
27	Enhancement of Cephalosporin C production by cultivation of Cephalosporium acremonium M25 using a mixture of inocula. Letters in Applied Microbiology, 2001, 32, 402-406.	2.2	23
28	CCL4DECOMPOSITION BY GLIDING ARC PLASMA: ROLE OF C2COMPOUNDS ON PRODUCTS DISTRIBUTION. Chemical Engineering Communications, 2007, 194, 1111-1125.	2.6	23
29	A fouling model for simulating long-term performance of SWRO desalination process. Journal of Membrane Science, 2012, 401-402, 282-291.	8.2	23
30	pH Control Using an Identification Reactor. Industrial & Engineering Chemistry Research, 1995, 34, 2418-2426.	3.7	22
31	Monitoring of a distillation column using modified extended Kalman filter and a reduced order model. Computers and Chemical Engineering, 1997, 21, S565-S570.	3.8	22
32	Operating Strategy for Continuous Multistage Mixed Suspension and Mixed Product Removal (MSMPR) Crystallization Processes Depending on Crystallization Kinetic Parameters. Industrial & Engineering Chemistry Research, 2016, 55, 7142-7153.	3.7	22
33	The Importance of the Aging Time to Prepare Cu/ZnO/Al ₂ O ₃ Catalyst with High Surface Area in Methanol Synthesis. Bulletin of the Korean Chemical Society, 2010, 31, 1241-1246.	1.9	22
34	Cybernetic modeling of the cephalosporin C fermentation process by Cephalosporium acremonium. Biotechnology Letters, 2003, 25, 611-616.	2.2	20
35	Site-specific raw seawater quality impact study on SWRO process for optimizing operation of the pressurized step. Desalination, 2009, 238, 140-157.	8.2	20
36	Reduction of Energy Consumption in the Process Industry Using a Heat-Integrated Hybrid Distillation Pervaporation Process. Industrial & Engineering Chemistry Research, 2009, 48, 4484-4494.	3.7	20

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37	Theoretical investigation of hybrid desalination system combining reverse osmosis and forward osmosis. Desalination and Water Treatment, 2010, 15, 114-120.	1.0	19
38	Synthesis of maximum energy recovery networks in batch processes. Korean Journal of Chemical Engineering, 1994, 11, 162-171.	2.7	15
39	An explicit solution of the mathematical model for osmotic desalination process. Korean Journal of Chemical Engineering, 2013, 30, 1691-1699.	2.7	15
40	Modeling of Metastable Zone Width Behavior with Dynamic Equation. Industrial & Engineering Chemistry Research, 2007, 46, 8158-8165.	3.7	14
41	Development of a package model for process simulation and cost estimation of seawater reverse osmosis desalination plant. Desalination, 2009, 247, 326-335.	8.2	13
42	Comprehensive assessment of the effects of operating conditions on membrane intrinsic parameters of forward osmosis (FO) based on principal component analysis (PCA). Journal of Membrane Science, 2022, 641, 119909.	8.2	13
43	Prediction of reverse osmosis membrane fouling due to scale formation in the presence of dissolved organic matters using genetic programming. Desalination and Water Treatment, 2010, 15, 121-128.	1.0	12
44	Energetic and exergetic analyses of a closed-loop pressure retarded membrane distillation (PRMD) for low-grade thermal energy utilization and freshwater production. Desalination, 2022, 534, 115799.	8.2	12
45	Modelling of crystallization process and optimization of the cooling strategy. Korean Journal of Chemical Engineering, 2009, 26, 1220-1225.	2.7	11
46	Simulation of Taylor–Couette reactor for particle classification using CFD. Journal of Crystal Growth, 2013, 373, 106-110.	1.5	11
47	Supersonically sprayed thermal barrier layers using clay micro-particles. Applied Clay Science, 2016, 120, 142-146.	5.2	10
48	Experimental simultaneous state and parameter identification of a pH neutralization process based on an extended Kalman Filter. Korean Journal of Chemical Engineering, 2004, 21, 753-760.	2.7	9
49	Process systems engineering approaches to speed-up the auto-titrator operations. Korean Journal of Chemical Engineering, 2009, 26, 636-640.	2.7	9
50	Measurement and Correlation of the Solubility of Carbon Dioxide in the Mixtures of Aqueous Monoethanolamine Solution and Benzoic Acid. Journal of Chemical & Engineering Data, 2012, 57, 3744-3750.	1.9	9
51	A novel method for measurement of crystal growth rate. Journal of Crystal Growth, 2013, 373, 54-58.	1.5	9
52	Quantitative estimation of internal concentration polarization in a spiral wound forward osmosis membrane module compared to a flat sheet membrane module. Korean Journal of Chemical Engineering, 2017, 34, 844-853.	2.7	9
53	Half order plus time delay (HOPTD) models to tune PI controllers. AICHE Journal, 2017, 63, 601-609.	3.6	9
54	Indirect Adaptive Backstepping Control of a pH Neutralization Process Based on Recursive Prediction Error Method for Combined State and Parameter Estimation. Industrial & Engineering Chemistry Research, 2001, 40, 4102-4110.	3.7	8

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55	A new method of amine solvent recovery with acid addition for energy reduction in the CO2 absorption process. Chemical Engineering Research and Design, 2013, 91, 2630-2638.	5.6	7
56	Membrane transport behavior characterization method with constant water flux in pressure-assisted forward osmosis. Desalination, 2021, 498, 114738.	8.2	7
57	Adsorption and Desorption Dynamics of Evaporative Fuel Gas in Canister of ORVR (On-Board Refueling) Tj ETQq1	1.0,78431 1.5	4 rgBT /Ove
58	Simple Proportional Integral Controller Tuning Rules for FOPTD and HOPTD Models Based on Matching Two Asymptotes. Industrial & Engineering Chemistry Research, 2018, 57, 2905-2916.	3.7	6
59	Optimal synthesis for the retrofitting of multiproduct batch plants. Industrial & Engineering Chemistry Research, 1993, 32, 1087-1092.	3.7	5
60	Online estimation of fouling development for SWRO system using real data. Desalination, 2009, 247, 200-209.	8.2	5
61	Application of hybrid systems techniques for cleaning and replacement of a RO membrane. Desalination, 2009, 247, 25-32.	8.2	5
62	A rapid performance diagnosis of seawater reverse osmosis membranes: simulation approach. Desalination and Water Treatment, 2010, 15, 11-19.	1.0	5
63	Modeling of solute transport in multi-component solution for reverse osmosis membranes. Desalination and Water Treatment, 2010, 15, 20-28.	1.0	5
64	A composition estimator for multicomponent flash drum using recursive equation error method. Computers and Chemical Engineering, 2000, 24, 1281-1286.	3.8	4
65	Reduced Model and Simulation of Neuron with Passive Dendritic Cable: An Eigenfunction Expansion Approach. Journal of Computational Neuroscience, 2005, 19, 379-397.	1.0	4
66	Design of isosorbide crystallization process as recovery system for poly(ethylene-co-isosorbide) terephthalate production via solubility measurements and crystallization kinetic parameter estimation. Journal of Industrial and Engineering Chemistry, 2020, 92, 191-199.	5.8	4
67	Run-to-run control of inductively coupled C2F6 plasma etching of SiO2: Construction of a numerical process with a computational fluid dynamics code. Korean Journal of Chemical Engineering, 2005, 22, 822-829.	2.7	3
68	Improving Dynamics of Glass pH Electrodes. IEEE Sensors Journal, 2009, 9, 1793-1796.	4.7	3
69	Effects of sweating time and cooling strategy on purification of N-vinyl-2-pyrrolidinone using a melt crystallizer. Korean Journal of Chemical Engineering, 2013, 30, 1997-2000.	2.7	3
70	Role of <scp>ZrO₂</scp> on Cu/ <scp>ZrO₂</scp> in Methanol Synthesis. Bulletin of the Korean Chemical Society, 2015, 36, 2875-2880.	1.9	3
71	Solubility Measurement and Recrystallization Process Design for 1,1,2,2,9,9,10,10-Octafluoro[2.2]paracyclophane (AF4) Purification. Crystal Growth and Design, 2019, 19, 1748-1755.	3.0	3
72	Control of pH neutralization process using simulation based dynamic programming. Korean Journal of Chemical Engineering, 2004, 21, 942-949.	2.7	2

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73	Run-to-run control of inductively coupled C2F6 plasma etching of SiO2: Multivariable controller design and numerical application. Korean Journal of Chemical Engineering, 2006, 23, 199-202.	2.7	2
74	Use of Calorimetry Model and Batch Control Technique for Scale-Up of Unseeded Batch Cooling Crystallization of Poly(hydroxybenzophenone). Industrial & Engineering Chemistry Research, 2009, 48, 6776-6782.	3.7	2
75	A Quantitative Structure-Property Relationship Model for Predicting the Critical Pressures of Organic Compounds Containing Oxygen, Sulfur, and Nitrogen. Journal of Chemical Engineering of Japan, 2017, 50, 397-407.	0.6	2
76	A modified scaled variable reduced coordinate (SVRC)-quantitative structure property relationship (QSPR) model for predicting liquid viscosity of pure organic compounds. Korean Journal of Chemical Engineering, 2017, 34, 2715-2724.	2.7	2
77	Java applet modules for undergraduate process control education. , 0, , .		1
78	Modeling and identification of the bio-ethanol production process from starch: Cybernetic vs. unstructured modeling. Computer Aided Chemical Engineering, 2008, , 707-712.	0.5	1
79	Prediction of Parathyroid Hormone Signalling Potency Using SVMs. Molecules and Cells, 2009, 27, 547-556.	2.6	1
80	On the use of pseudo-spectral method in model reduction and simulation of active dendrites. Computers in Biology and Medicine, 2009, 39, 340-345.	7.0	1
81	Understanding boron rejection by reverse osmosis membranes. Desalination and Water Treatment, 2010, 15, 129-133.	1.0	1
82	Optimization of temperature swing strategy for selective cooling crystallization of α-form l-glutamic acid crystals. Korean Journal of Chemical Engineering, 2013, 30, 1836-1842.	2.7	1
83	Economic analysis of waste recycle process in perhydropolysiloxazane synthesis. Korean Journal of Chemical Engineering, 2014, 31, 748-753.	2.7	1
84	Relative Roles of Methanol Synthesis and Solid Acid Catalysts in the Direct <scp>DME</scp> Synthesis from Syngas. Bulletin of the Korean Chemical Society, 2015, 36, 1221-1225.	1.9	1
85	Modeling and Simulation for Feasibility Study of Taylor-Couette Crystallizer as Crystal Seed Manufacturing System. IFAC-PapersOnLine, 2015, 48, 321-324.	0.9	1
86	Operation strategy of industrial crystallization for the production of 2,3,4,4′-tetrahydroxybenzophenon. Korean Journal of Chemical Engineering, 2015, 32, 1222-1228.	2.7	1
87	Cost-based analysis about a newly designed two-staged reverse osmosis process with draw solute. Computer Aided Chemical Engineering, 2016, 38, 223-228.	0.5	1
88	Double First-Order Plus Time Delay Models To Tune Proportional–Integral Controllers. Industrial & Samp; Engineering Chemistry Research, 2016, 55, 10328-10335.	3.7	1
89	Modified kinetic rate equation model for cooling crystallization. Korean Journal of Chemical Engineering, 2019, 36, 2095-2103.	2.7	1
90	Shallow Fully Connected Neural Network Training by Forcing Linearization into Valid Region and Balancing Training Rates. Processes, 2022, 10, 1157.	2.8	1

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91	Adaptive output feedback nonlinear control of a pH process with an input constraint., 0,,.		o
92	Cybernetic modeling of the cephalosporin C fermentation process. Computer Aided Chemical Engineering, 2003, 15, 1187-1192.	0.5	0
93	THE APPLICATION OF CONTROL USING NEURO-DYNAMIC PROGRAMMING WITH A FEATURE MAP. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 995-1000.	0.4	O
94	Dynamic Simulation of Plate-Type Reformer and Combustor System for Molten Carbonate Fuel Cell. Studies in Surface Science and Catalysis, 2006, 159, 629-632.	1.5	0
95	The Simulation and Control of the Reactive Distillation Process for Dimethylcarbonate Production. Studies in Surface Science and Catalysis, 2006, , 665-668.	1.5	0
96	Speed-up of the auto-titrator operation. , 2008, , .		0
97	Optimization of hysteresis on the liquid level system and hysteresis process implemented with siphon in the liquid level system. , 2015, , .		O
98	Feasibility study of solvent recycle process in spin-on hard mask material manufacturing system. Korean Journal of Chemical Engineering, 2015, 32, 2375-2383.	2.7	0
99	Economic Evaluation of Hybrid FO-crystallization-RO Desalination Process. Computer Aided Chemical Engineering, 2016, , 919-924.	0.5	О
100	Process Design and Operating Strategies for a Continuous Vaporization System for Purifying Organic Holeâ€Transport Materials. Chemical Engineering and Technology, 2019, 42, 109-118.	1.5	0
101	10.2478/s11814-009-0207-6. , 2011, 26, 1220.		0
102	Simulation and Control of the Molten Carbonate System using Aspen DynamicTMand ACM. Korean Chemical Engineering Research, 2011, 49, 423-431.	0.2	0