Jonggeol Na

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Catalyst–electrolyte interface chemistry for electrochemical CO ₂ reduction. Chemical Society Reviews, 2020, 49, 6632-6665.	18.7	234
2	General technoeconomic analysis for electrochemical coproduction coupling carbon dioxide reduction with organic oxidation. Nature Communications, 2019, 10, 5193.	5.8	219
3	Electrocatalytic Reduction of Low Concentrations of CO ₂ Gas in a Membrane Electrode Assembly Electrolyzer. ACS Energy Letters, 2021, 6, 3488-3495.	8.8	73
4	Multi-objective Bayesian optimization of chemical reactor design using computational fluid dynamics. Computers and Chemical Engineering, 2018, 119, 25-37.	2.0	62
5	Mass Transport Control by Surface Graphene Oxide for Selective CO Production from Electrochemical CO ₂ Reduction. ACS Catalysis, 2020, 10, 3222-3231.	5.5	57
6	An experimental based optimization of a novel water lean amine solvent for post combustion CO2 capture process. Applied Energy, 2019, 248, 174-184.	5.1	49
7	Risk-based underground pipeline safety management considering corrosion effect. Journal of Hazardous Materials, 2018, 342, 279-289.	6.5	45
8	Adversarial Autoencoder Based Feature Learning for Fault Detection in Industrial Processes. IEEE Transactions on Industrial Informatics, 2022, 18, 827-834.	7.2	44
9	Efficient Discovery of Active, Selective, and Stable Catalysts for Electrochemical H ₂ O ₂ Synthesis through Active Motif Screening. ACS Catalysis, 2021, 11, 2483-2491.	5.5	44
10	Toxic gas release modeling for real-time analysis using variational autoencoder with convolutional neural networks. Chemical Engineering Science, 2018, 181, 68-78.	1.9	43
11	A modified DIRECT algorithm for hidden constraints in an LNG process optimization. Energy, 2017, 126, 488-500.	4.5	41
12	Towards the Large-Scale Electrochemical Reduction of Carbon Dioxide. Catalysts, 2021, 11, 253.	1.6	41
13	Multi-objective optimization of microchannel reactor for Fischer-Tropsch synthesis using computational fluid dynamics and genetic algorithm. Chemical Engineering Journal, 2017, 313, 1521-1534.	6.6	39
14	Origin of Hydrogen Incorporated into Ethylene during Electrochemical CO ₂ Reduction in Membrane Electrode Assembly. ACS Energy Letters, 2022, 7, 939-945.	8.8	36
15	Machine learning-based utilization of renewable power curtailments under uncertainty by planning of hydrogen systems and battery storages. Journal of Energy Storage, 2021, 41, 103010.	3.9	33
16	Deep Neural Network-based Optimization Framework for Safety Evacuation Route during Toxic Gas Leak Incidents. Reliability Engineering and System Safety, 2022, 218, 108102.	5.1	30
17	Generative Chemical Transformer: Neural Machine Learning of Molecular Geometric Structures from Chemical Language via Attention. Journal of Chemical Information and Modeling, 2021, 61, 5804-5814.	2.5	23
18	Simultaneous synthesis of a heat exchanger network with multiple utilities using utility substages. Computers and Chemical Engineering, 2015, 79, 70-79.	2.0	22

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19	CFD Simulation of Microchannel Reactor Block for Fischer–Tropsch Synthesis: Effect of Coolant Type and Wall Boiling Condition on Reactor Temperature. Industrial & Engineering Chemistry Research, 2016, 55, 543-554	1.8	21
20	Design methodology for mass transfer-enhanced large-scale electrochemical reactor for CO <mml:math <br="" display="inline" id="d1e969" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si32.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow </mml:msub></mml:math> reduction. Chemical Engineering Journal 2021 424 130265	6.6	21
21	NARX modeling for real-time optimization of air and gas compression systems in chemical processes. Computers and Chemical Engineering, 2018, 115, 262-274.	2.0	19
22	Design of microchannel Fischer–Tropsch reactor using cell-coupling method: Effect of flow configurations and distribution. Chemical Engineering Science, 2016, 143, 63-75.	1.9	17
23	Computational Fluid Dynamics Based Optimal Design of Guiding Channel Geometry in U-Type Coolant Layer Manifold of Large-Scale Microchannel Fischer–Tropsch Reactor. Industrial & Engineering Chemistry Research, 2016, 55, 505-515.	1.8	17
24	Optimal operation strategy of batch vacuum distillation for sulfuric acid recycling process. Computers and Chemical Engineering, 2014, 71, 104-115.	2.0	16
25	Microenvironments of Cu catalysts in zero-gap membrane electrode assembly for efficient CO ₂ electrolysis to C ₂₊ products. Journal of Materials Chemistry A, 2022, 10, 10363-10372.	5.2	16
26	Design and modeling of large-scale cross-current multichannel Fischer–Tropsch reactor using channel decomposition and cell-coupling method. Chemical Engineering Science, 2015, 134, 448-456.	1.9	14
27	Robust design of ambient-air vaporizer based on time-series clustering. Computers and Chemical Engineering, 2018, 118, 236-247.	2.0	14
28	Data-driven robust optimization for minimum nitrogen oxide emission under process uncertainty. Chemical Engineering Journal, 2022, 428, 130971.	6.6	14
29	Physics-informed deep learning for data-driven solutions of computational fluid dynamics. Korean Journal of Chemical Engineering, 2022, 39, 515-528.	1.2	13
30	Comparative Study of Process Integration and Retrofit Design of a Liquefied Natural Gas (LNG) Regasification Process Based on Exergy Analyses: A Case Study of an LNG Regasification Process in South Korea. Industrial & Engineering Chemistry Research, 2014, 53, 14366-14376.	1.8	12
31	Multicompartment Model of an Ethylene–Vinyl Acetate Autoclave Reactor: A Combined Computational Fluid Dynamics and Polymerization Kinetics Model. Industrial & Engineering Chemistry Research, 2019, 58, 16459-16471.	1.8	12
32	Data-driven pilot optimization for electrochemical CO mass production. Journal of Materials Chemistry A, 2020, 8, 16943-16950.	5.2	12
33	In silico discovery of active, stable, CO-tolerant and cost-effective electrocatalysts for hydrogen evolution and oxidation. Physical Chemistry Chemical Physics, 2020, 22, 19454-19458.	1.3	12
34	Modeling and validation of a pilot-scale aqueous mineral carbonation reactor for carbon capture using computational fluid dynamics. Chemical Engineering Science, 2018, 177, 301-312.	1.9	11
35	Bayesian Inference of Aqueous Mineral Carbonation Kinetics for Carbon Capture and Utilization. Industrial & Engineering Chemistry Research, 2019, 58, 8246-8259.	1.8	11
36	Bayesian optimization of industrial-scale toluene diisocyanate liquid-phase jet reactor with 3-D computational fluid dynamics model. Journal of Industrial and Engineering Chemistry, 2021, 98, 327-339.	2.9	10

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37	Learning the properties of a water-lean amine solvent from carbon capture pilot experiments. Applied Energy, 2021, 283, 116213.	5.1	9
38	CFD modeling for the prediction of molecular weight distribution in the LDPE autoclave reactor: Effects of non-ideal mixing. Chemical Engineering Journal, 2022, 427, 131829.	6.6	9
39	Development of surrogate model using CFD and deep neural networks to optimize gas detector layout. Korean Journal of Chemical Engineering, 2019, 36, 325-332.	1.2	8
40	Toward the practical application of direct CO 2 hydrogenation technology for methanol production. International Journal of Energy Research, 2020, 44, 8781-8798.	2.2	8
41	Optimal design of a large scale Fischer-Tropsch microchannel reactor module using a cell-coupling method. Fuel Processing Technology, 2017, 159, 448-459.	3.7	7
42	Computational Fluid Dynamics Study of Channel Geometric Effect for Fischer-Tropsch Microchannel Reactor. Korean Chemical Engineering Research, 2014, 52, 826-833.	0.2	7
43	Optimal design and operation of Fischer-Tropsch microchannel reactor for pilot-scale compact Gas-to-Liquid process. Chemical Engineering and Processing: Process Intensification, 2018, 128, 63-76.	1.8	6
44	Efficient Bayesian inference using adversarial machine learning and low-complexity surrogate models. Computers and Chemical Engineering, 2021, 151, 107322.	2.0	6
45	Design of carbon dioxide dehydration process using derivative-free superstructure optimization. Chemical Engineering Research and Design, 2018, 129, 344-355.	2.7	5
46	Clustered Manifold Approximation and Projection for Semisupervised Fault Diagnosis and Process Monitoring. Industrial & 201; Engineering Chemistry Research, 2021, 60, 9521-9531.	1.8	5
47	Simultaneous Optimization Models for Heat Exchanger Network Synthesis with Multiple Utilities: A New Strategy by Using Utility Sub-stage. Computer Aided Chemical Engineering, 2014, 33, 1675-1680.	0.3	4
48	CO2Mineral Carbonation Reactor Analysis using Computational Fluid Dynamics: Internal Reactor Design Study for the Efficient Mixing of Solid Reactants in the Solution. Korean Chemical Engineering Research, 2016, 54, 612-620.	0.2	4
49	Optimal Design of an Ambient Air Vaporizer using Numerical Model and DIRECT Algorithm. Computer Aided Chemical Engineering, 2018, , 1795-1800.	0.3	3
50	Bayesian Optimization of Semicontinuous Carbonation Process Operation Recipe. Industrial & Engineering Chemistry Research, 2021, 60, 9871-9884.	1.8	2
51	Analysis on Thermal Effects of Process Channel Geometry for Microchannel Fischer-Tropsch Reactor Using Computational Fluid Dynamics. Korean Chemical Engineering Research, 2015, 53, 818-823.	0.2	2
52	A Comparative Study of Various Fuel for Newly Optimized Onboard Fuel Processor System under the Simple Heat Exchanger Network. Korean Chemical Engineering Research, 2014, 52, 720-726.	0.2	2
53	Adversarial Autoencoder Based Nonlinear Process Monitoring. Computer Aided Chemical Engineering, 2021, 50, 1195-1201.	0.3	1