Kiwoong Kim

List of Publications by Year
in descending order

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		759233	752698
25	388	12	20
papers	citations	h-index	g-index

25	25	25	459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Separation of ethane/ethylene gas mixture by ethane-selective CAU-3-NDCA adsorbent. Microporous and Mesoporous Materials, 2022, 330, 111572.	4.4	9
2	Energy-efficient design of dual circulating fluidized bed system for CCUS by multi-tube configuration with junctions. Energy, 2022, 245, 123258.	8.8	0
3	Pore control of Al-based MIL-53 isomorphs for the preferential capture of ethane in an ethane/ethylene mixture. Journal of Materials Chemistry A, 2021, 9, 14593-14600.	10.3	29
4	Efficient design of heat exchange for CFB reactors in CO2 capture system regarding geometry-induced secondary flow. Energy Conversion and Management, 2021, 235, 113995.	9.2	4
5	Techno-economics and sensitivity analysis of hybrid process combining carbon molecular sieve membrane and distillation column for propylene/propane separation. Chemical Engineering Research and Design, 2021, 172, 204-214.	5.6	10
6	Effect of framework rigidity in metal-organic frameworks for adsorptive separation of ethane/ethylene. Microporous and Mesoporous Materials, 2020, 307, 110473.	4.4	20
7	Experimental evaluation of CO2 capture with an amine impregnated sorbent in dual circulating fluidized bed process. International Journal of Greenhouse Gas Control, 2020, 101, 103141.	4.6	5
8	Microporous 3D Graphene-like Zeolite-Templated Carbons for Preferential Adsorption of Ethane. ACS Applied Materials & Interfaces, 2020, 12, 28484-28495.	8.0	25
9	Thermal design of dual circulating fluidized bed reactors for a large-scale CO2 capture system. Applied Thermal Engineering, 2020, 171, 115114.	6.0	6
10	Performance study of multistage membrane and hybrid distillation processes for propylene/propane separation. Canadian Journal of Chemical Engineering, 2017, 95, 2390-2397.	1.7	15
11	An Energy Exchangeable Solid-sorbent Based Multi-stage Fluidized Bed Process for CO2 Capture. Energy Procedia, 2017, 114, 2410-2420.	1.8	13
12	Factors Affecting the Rate of CO₂ Absorption after Partial Desorption in NaNO₃-Promoted MgO. Energy & Fuels, 2016, 30, 3298-3305.	5.1	26
13	Promoting alkali and alkaline-earth metals on MgO for enhancing CO₂capture by first-principles calculations. Physical Chemistry Chemical Physics, 2014, 16, 24818-24823.	2.8	37
14	Energy recoverable multi-stage dry sorbent CO2 capture process. Energy Procedia, 2014, 63, 2266-2279.	1.8	17
15	Performance Comparison of Moving and Fluidized bed Sorption Systems for an Energy-efficient Solid Sorbent-Based Carbon Capture Process. Energy Procedia, 2014, 63, 1151-1161.	1.8	14
16	Feasibility Study of a Moving-Bed Adsorption Process with Heat Integration for CO₂ Capture through Energy Evaluation and Optimization. Energy & Fuels, 2014, 28, 7599-7608.	5.1	14
17	Molecular Dynamics Study of Diffusion Behaviors of CO2 and N2 Confined to a Uni-directional Zeolite Structure. Computer Aided Chemical Engineering, 2014, 33, 1717-1722.	0.5	2
18	A solid sorbent-based multi-stage fluidized bed process with inter-stage heat integration as an energy efficient carbon capture process. International Journal of Greenhouse Gas Control, 2014, 26, 135-146.	4.6	40

#	Article	IF	Citations
19	An improved CO2 adsorption efficiency for the zeolites impregnated with the amino group: A molecular simulation approach. International Journal of Greenhouse Gas Control, 2013, 19, 350-357.	4.6	15
20	Moving bed adsorption process with internal heat integration for carbon dioxide capture. International Journal of Greenhouse Gas Control, 2013, 17, 13-24.	4.6	65
21	Bi-level optimizing control of a simulated moving bed process with nonlinear adsorption isotherms. Journal of Chromatography A, 2011, 1218, 6843-6847.	3.7	3
22	Molecular dynamics study of the role of friction on the thermal rupture of linear alternate copolymers. Macromolecular Research, 2011, 19, 1192-1194.	2.4	1
23	Repetitive Control and Cyclic Steady State Optimization of a Simulated Moving Bed Process*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 172-177.	0.4	0
24	Bilevel Optimizing Control Structure for a Simulated Moving Bed Process Based on a Reduced-Order Model Using the Cubic Spline Collocation Method. Industrial & Engineering Chemistry Research, 2010, 49, 3689-3699.	3.7	9
25	Experimental Verification of Bilevel Optimizing Control for SMB Technology. Industrial & Engineering Chemistry Research, 2010, 49, 8593-8600.	3.7	9