

Young Cheol Park

List of Publications by Year in descending order

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643
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#	ARTICLE	IF	CITATIONS
1	Optimal MEA/DIPA/water blending ratio for minimizing regeneration energy in absorption-based carbon capture process: Experimental CO ₂ solubility and thermodynamic modeling. Chemical Engineering Journal, 2022, 444, 136523.	12.7	16
2	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO ₂ capture on a 100Åkg scale in a fluidized bed continuous unit. Chemical Engineering Journal, 2021, 407, 127209.	12.7	7
3	Sorption-enhanced thin film composites with metal-organic polyhedral nanocages for CO ₂ separation. Journal of Membrane Science, 2021, 620, 118826.	8.2	9
4	CO ₂ /N ₂ and O ₂ /N ₂ Separation Using Mixed-Matrix Membranes with MOF-74 Nanocrystals Synthesized Via Microwave Reactions. Bulletin of the Korean Chemical Society, 2021, 42, 459-462.	1.9	25
5	Hierarchical porous carbon beads for selective CO ₂ capture. Journal of CO ₂ Utilization, 2021, 51, 101659.	6.8	8
6	Hydrodynamics and heat transfer coefficients during CO ₂ carbonation reaction in a circulated fluidized bed reactor using 200Åkg potassium-based dry sorbent. Energy, 2020, 193, 116643.	8.8	12
7	Post-combustion CO ₂ capture process in a circulated fluidized bed reactor using 200Åkg potassium-based sorbent: The optimization of regeneration condition. Energy, 2020, 208, 118188.	8.8	10
8	Effect of Blending Ratio and Temperature on CO ₂ Solubility in Blended Aqueous Solution of Monoethanolamine and 2-Amino-2-methyl-propanol: Experimental and Modeling Study Using the Electrolyte Nonrandom Two-Liquid Model. ACS Omega, 2020, 5, 28738-28748.	3.5	11
9	Carbon dioxide capture from a real coal-fired flue gas using K-based solid sorbents in a 0.5 MWe-scale test-bed facility. International Journal of Greenhouse Gas Control, 2020, 103, 103192.	4.6	3
10	Effective CO ₂ and CO Separation Using [M ₂ (DOBDC)] (M = Mg, Co, Ni) with Unsaturated Metal Sites and Excavation of Their Adsorption Sites. ACS Applied Materials & Interfaces, 2019, 11, 7014-7021.	8.0	51
11	Continuous testing of silica-PEI adsorbents in a lab.-scale twin bubbling fluidized-bed system. International Journal of Greenhouse Gas Control, 2019, 82, 184-191.	4.6	19
12	Synthesis of cyclic carbonate by CO ₂ fixation to epoxides using interpenetrated MOF-5/n-Bu ₄ NBr. Journal of Materials Science, 2019, 54, 11796-11803.	3.7	20
13	Experimental and Modeling Study of Vapor Liquid Equilibrium for a Methyl-diethanolamine-CO ₂ -H ₂ S-Water Quaternary System Using Activity Coefficient Models with Corrected Equilibrium Constants. Energy & Fuels, 2019, 33, 4401-4411.	5.1	9
14	CuY zeolite catalysts prepared by ultrasonication-assisted ion-exchange for oxidative carbonylation of methanol to dimethyl carbonate. Ultrasonics Sonochemistry, 2018, 44, 146-151.	8.2	17
15	Defect-Free Mixed-Matrix Membranes with Hydrophilic Metal-Organic Polyhedra for Efficient Carbon Dioxide Separation. Chemistry - an Asian Journal, 2018, 13, 631-635.	3.3	37
16	Influence of dehydrating agents on the oxidative carbonylation of methanol for dimethyl carbonate synthesis over a Cu/Y-zeolite catalyst. Chinese Journal of Chemical Engineering, 2018, 26, 1059-1063.	3.5	7
17	High-Temperature and High-Pressure Particle Attrition Characteristics of Dry Sorbents for Pre-Combustion CO ₂ Capture by a Gas Jet in a Bubbling Fluidized Bed. Journal of Chemical Engineering of Japan, 2018, 51, 664-674.	0.6	3
18	CO ₂ Sorption Characteristics of Various Sorbents in the Bubbling Fluidized-Bed. Energy Procedia, 2017, 114, 2336-2340.	1.8	0

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19	Heat Integration of KIERDRY Process with a Power Plant Using gPROMS. <i>Energy Procedia</i> , 2017, 114, 6660-6665.	1.8	7
20	Performance analysis of K-based KEP-CO2P1 solid sorbents in a bench-scale continuous dry-sorbent CO2 capture process. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 73-79.	2.7	12
21	The Absorption Breakthrough Characteristics of Hydrogen Chloride Gas Mixture on Potassium-Based Solid Sorbent at High Temperature and High Pressure. <i>Energy & Fuels</i> , 2016, 30, 2268-2275.	5.1	17
22	Fuel characteristics of molasses-impregnated low-rank coal produced in a top-spray fluidized-bed reactor. <i>Drying Technology</i> , 2016, 34, 1095-1106.	3.1	3
23	Effect of Dehydration on DMC Synthesis over Ceria Catalysts. <i>Clean Technology</i> , 2016, 22, 196-202.	0.1	1
24	The Adsorption and Desorption Breakthrough Behavior of Hydrogen Chloride Gas Mixture on Zeolite 13X Pellet in a Fixed Bed Reactor. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 202-211.	0.6	9
25	Cleaning of gaseous hydrogen chloride in a syngas by spray-dried potassium-based solid sorbents. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 845-851.	2.7	13
26	Effects of Regeneration Conditions on Sorption Capacity of CO2Dry Potassium Sorbent During Carbonation. <i>Korean Chemical Engineering Research</i> , 2015, 53, 333-338.	0.2	1
27	Drying Efficiency of Indonesian Lignite in a Batch-Circulating Fluidized Bed Dryer. <i>Drying Technology</i> , 2014, 32, 268-278.	3.1	27
28	Test Operation Results of the 10 MWe-scale Dry-sorbent CO2 Capture Process Integrated with a Real Coal-fired Power Plant in Korea. <i>Energy Procedia</i> , 2014, 63, 2261-2265.	1.8	25
29	Effect of Desorption Pressure on Adsorption and Desorption Breakthrough Behaviors of Carbon Dioxide with Zeolite 3A, 4A, 5A, and 13X Pellets. <i>Clean Technology</i> , 2014, 20, 179-188.	0.1	1
30	Particle Attrition Characteristics in a Bubbling Fluidized Bed Under High Temperature and High Pressure Conditions. <i>Clean Technology</i> , 2014, 20, 359-366.	0.1	3
31	The Status of the Development Project for the 10 MWe-Scale Dry-sorbent Carbon Dioxide Capture System to the real Coal-Fired Power Plant in Korea. <i>Energy Procedia</i> , 2013, 37, 122-126.	1.8	14
32	Performance of a coal gasification pilot plant with hot fuel gas desulfurization. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 67-72.	2.7	8
33	Effect of Pressure on HCl Absorption Behaviors of a K-based Absorbent in the Fixed Bed Reactor. <i>Clean Technology</i> , 2013, 19, 165-172.	0.1	2
34	Simultaneous removal of H2S and COS using Zn-based solid sorbents in the bench-scale continuous hot gas desulfurization system integrated with a coal gasifier. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1812-1816.	2.7	11
35	Analysis of K2CO3/Al2O3 CO2 sorbent tested with coal-fired power plant flue gas: Effect of SOx. <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 347-354.	4.6	31
36	Analysis of CO ₂ Capture Efficiency in Relation to the Inlet Moisture Content of the Regenerator in the Continuous Process by using Sorbent Analysis. <i>Korean Chemical Engineering Research</i> , 2012, 50, 654-658.	0.2	3

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37	The effect of CO ₂ or steam partial pressure in the regeneration of solid sorbents on the CO ₂ capture efficiency in the two-interconnected bubbling fluidized-beds system. Korean Journal of Chemical Engineering, 2011, 28, 1986-1989.	2.7	20
38	Demonstration of pilot scale carbon dioxide capture system using dry regenerable sorbents to the real coal-fired power plant in Korea. Energy Procedia, 2011, 4, 1508-1512.	1.8	43
39	Effect of bed height on the carbon dioxide capture by carbonation/regeneration cyclic operations using dry potassium-based sorbents. Korean Journal of Chemical Engineering, 2009, 26, 874-878.	2.7	37
40	Long-term operation of carbon dioxide capture system from a real coal-fired flue gas using dry regenerable potassium-based sorbents. Energy Procedia, 2009, 1, 1235-1239.	1.8	51
41	A new global optimization method for univariate constrained twice-differentiable NLP problems. Journal of Global Optimization, 2007, 39, 79-100.	1.8	2