

# Young Cheol Park

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11187183/publications.pdf>

Version: 2024-02-01

41  
papers

605  
citations

567281

15  
h-index

642732

23  
g-index

41  
all docs

41  
docs citations

41  
times ranked

643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term operation of carbon dioxide capture system from a real coal-fired flue gas using dry regenerable potassium-based sorbents. <i>Energy Procedia</i> , 2009, 1, 1235-1239.	1.8	51
2	Effective CO <sub>2</sub> and CO Separation Using [M <sub>2</sub> (DOBDC)] (M = Mg, Co, Ni) with Unsaturated Metal Sites and Excavation of Their Adsorption Sites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7014-7021.	8.0	51
3	Demonstration of pilot scale carbon dioxide capture system using dry regenerable sorbents to the real coal-fired power plant in Korea. <i>Energy Procedia</i> , 2011, 4, 1508-1512.	1.8	43
4	Effect of bed height on the carbon dioxide capture by carbonation/regeneration cyclic operations using dry potassium-based sorbents. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 874-878.	2.7	37
5	Defect-Free Mixed Matrix Membranes with Hydrophilic Metal-Organic Polyhedra for Efficient Carbon Dioxide Separation. <i>Chemistry - an Asian Journal</i> , 2018, 13, 631-635.	3.3	37
6	Analysis of K <sub>2</sub> CO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> CO <sub>2</sub> sorbent tested with coal-fired power plant flue gas: Effect of SO <sub>x</sub> . <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 347-354.	4.6	31
7	Drying Efficiency of Indonesian Lignite in a Batch-Circulating Fluidized Bed Dryer. <i>Drying Technology</i> , 2014, 32, 268-278.	3.1	27
8	Test Operation Results of the 10 MWe-scale Dry-sorbent CO <sub>2</sub> Capture Process Integrated with a Real Coal-fired Power Plant in Korea. <i>Energy Procedia</i> , 2014, 63, 2261-2265.	1.8	25
9	CO <sub>2</sub> and O <sub>2</sub> Separation Using Mixed Matrix Membranes with MOF-74 Nanocrystals Synthesized Via Microwave Reactions. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 459-462.	1.9	25
10	The effect of CO <sub>2</sub> or steam partial pressure in the regeneration of solid sorbents on the CO <sub>2</sub> capture efficiency in the two-interconnected bubbling fluidized-beds system. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1986-1989.	2.7	20
11	Synthesis of cyclic carbonate by CO <sub>2</sub> fixation to epoxides using interpenetrated MOF-5/n-Bu <sub>4</sub> NBr. <i>Journal of Materials Science</i> , 2019, 54, 11796-11803.	3.7	20
12	Continuous testing of silica-PEI adsorbents in a lab.-scale twin bubbling fluidized-bed system. <i>International Journal of Greenhouse Gas Control</i> , 2019, 82, 184-191.	4.6	19
13	The Absorption Breakthrough Characteristics of Hydrogen Chloride Gas Mixture on Potassium-Based Solid Sorbent at High Temperature and High Pressure. <i>Energy &amp; Fuels</i> , 2016, 30, 2268-2275.	5.1	17
14	CuY zeolite catalysts prepared by ultrasonication-assisted ion-exchange for oxidative carbonylation of methanol to dimethyl carbonate. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 146-151.	8.2	17
15	Optimal MEA/DIPA/water blending ratio for minimizing regeneration energy in absorption-based carbon capture process: Experimental CO <sub>2</sub> solubility and thermodynamic modeling. <i>Chemical Engineering Journal</i> , 2022, 444, 136523.	12.7	16
16	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
17	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
18	Performance analysis of K-based KEP-CO <sub>2</sub> P1 solid sorbents in a bench-scale continuous dry-sorbent CO <sub>2</sub> capture process. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 73-79.	2.7	12

#	ARTICLE	IF	CITATIONS
19	Hydrodynamics and heat transfer coefficients during CO <sub>2</sub> carbonation reaction in a circulated fluidized bed reactor using 200Åkg potassium-based dry sorbent. <i>Energy</i> , 2020, 193, 116643.	8.8	12
20	Simultaneous removal of H <sub>2</sub> S 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
21	Effect of Blending Ratio and Temperature on CO <sub>2</sub> Solubility in Blended Aqueous Solution of Monoethanolamine and 2-Amino-2-methyl-propanol: Experimental and Modeling Study Using the Electrolyte Nonrandom Two-Liquid Model. <i>ACS Omega</i> , 2020, 5, 28738-28748.	3.5	11
22	Post-combustion CO <sub>2</sub> capture process in a circulated fluidized bed reactor using 200Åkg potassium-based sorbent: The optimization of regeneration condition. <i>Energy</i> , 2020, 208, 118188.	8.8	10
23	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
24	Experimental and Modeling Study of Vapor Liquid Equilibrium for a Methyl-diethanolamine-CO <sub>2</sub> -H <sub>2</sub> O-Water Quaternary System Using Activity Coefficient Models with Corrected Equilibrium Constants. <i>Energy &amp; Fuels</i> , 2019, 33, 4401-4411.	5.1	9
25	Sorption-enhanced thin film composites with metal-organic polyhedral nanocages for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2021, 620, 118826.	8.2	9
26	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
27	Hierarchical porous carbon beads for selective CO <sub>2</sub> capture. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 51, 101659.	6.8	8
28	Heat Integration of KIERDRY Process with a Power Plant Using gPROMS. <i>Energy Procedia</i> , 2017, 114, 6660-6665.	1.8	7
29	Influence of dehydrating agents on the oxidative carbonylation of methanol for dimethyl carbonate synthesis over a Cu/Y-zeolite catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1059-1063.	3.5	7
30	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO <sub>2</sub> capture on a 100Åkg scale in a fluidized bed continuous unit. <i>Chemical Engineering Journal</i> , 2021, 407, 127209.	12.7	7
31	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
32	High-Temperature and High-Pressure Particle Attrition Characteristics of Dry Sorbents for Pre-Combustion CO <sub>2</sub> Capture by a Gas Jet in a Bubbling Fluidized Bed. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 664-674.	0.6	3
33	Carbon dioxide capture from a real coal-fired flue gas using K-based solid sorbents in a 0.5 MWe-scale test-bed facility. <i>International Journal of Greenhouse Gas Control</i> , 2020, 103, 103192.	4.6	3
34	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
35	Analysis of CO <sub>2</sub> 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
36	A new global optimization method for univariate constrained twice-differentiable NLP problems. <i>Journal of Global Optimization</i> , 2007, 39, 79-100.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Effect of Pressure on HCl Absorption Behaviors of a K-based Absorbent in the Fixed Bed Reactor. Clean Technology, 2013, 19, 165-172.	0.1	2
38	Effect of Desorption Pressure on Adsorption and Desorption Breakthrough Behaviors of Carbon Dioxide with Zeolite 3A, 4A, 5A, and 13X Pellets. Clean Technology, 2014, 20, 179-188.	0.1	1
39	Effect of Dehydration on DMC Synthesis over Ceria Catalysts. Clean Technology, 2016, 22, 196-202.	0.1	1
40	Effects of Regeneration Conditions on Sorption Capacity of CO <sub>2</sub> Dry Potassium Sorbent During Carbonation. Korean Chemical Engineering Research, 2015, 53, 333-338.	0.2	1
41	CO <sub>2</sub> Sorption Characteristics of Various Sorbents in the Bubbling Fluidized-Bed. Energy Procedia, 2017, 114, 2336-2340.	1.8	0