Guanhe Rim

List of Publications by Year in descending order

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15 papers	335 citations	933447 10 h-index	996975 15 g-index
15	15	15	215
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Novel in-capsule synthesis of metal–organic framework for innovative carbon dioxide capture system. Green Energy and Environment, 2023, 8, 767-774.	8.7	5
2	Encapsulation of highly viscous CO2 capture solvents for enhanced capture kinetics: Modeling investigation of mass transfer mechanisms. Chemical Engineering Journal, 2022, 428, 131603.	12.7	9
3	Research needs targeting direct air capture of carbon dioxide: Material & Department of Chemical Engineering, characteristics under realistic environmental conditions. Korean Journal of Chemical Engineering, 2022, 39, 1-19.	2.7	40
4	Sub-Ambient Temperature Direct Air Capture of CO ₂ using Amine-Impregnated MIL-101(Cr) Enables Ambient Temperature CO ₂ Recovery. Jacs Au, 2022, 2, 380-393.	7.9	62
5	Solvent Impregnated Polymers Loaded with Liquidâ€Like Nanoparticle Organic Hybrid Materials for Enhanced Kinetics of Direct Air Capture and Point Source CO ₂ Capture. Advanced Functional Materials, 2021, 31, 2010047.	14.9	46
6	Electrochemical approaches for selective recovery of critical elements in hydrometallurgical processes of complex feedstocks. IScience, 2021, 24, 102374.	4.1	46
7	CO ₂ utilization in built environment <i>via</i> the <i>P</i> _{CO2} swing carbonation of alkaline solid wastes with different mineralogy. Faraday Discussions, 2021, 230, 187-212.	3.2	20
8	Integration of Two Waste Streams for Carbon Storage and Utilization: Enhanced Metal Extraction from Steel Slag Using Biogenic Volatile Organic Acids. ACS Sustainable Chemistry and Engineering, 2020, 8, 18519-18527.	6.7	13
9	Investigation on Abrasion versus Fragmentation of the Si-rich Passivation Layer for Enhanced Carbon Mineralization via CO ₂ Partial Pressure Swing. Industrial & Engineering Chemistry Research, 2020, 59, 6517-6531.	3.7	16
10	29Si solid state MAS NMR study on leaching behaviors and chemical stability of different Mg-silicate structures for CO2 sequestration. Chemical Engineering Journal, 2020, 396, 125204.	12.7	31
11	Kinetic and mechanistic investigation of catalytic alkaline thermal treatment of xylan producing high purity H2 with in-situ carbon capture. Journal of Industrial and Engineering Chemistry, 2020, 85, 219-225.	5.8	9
12	Bubbling to turbulent bed regime transition of ternary particles in a gas–solid fluidized bed. Powder Technology, 2016, 290, 45-52.	4.2	11
13	Flow characteristics and axial bed composition according to mass ratio of binary solids in gas–solid circulating fluidised beds. Powder Technology, 2014, 258, 344-351.	4.2	11
14	Data and models for liquid velocity and liquid holdup at layer inversion point in a three-phase fluidized bed of binary solids. Chemical Engineering Science, 2014, 109, 82-84.	3.8	7
15	Prediction of layer inversion velocity in three-phase fluidized beds. Chemical Engineering Science, 2013, 100, 91-97.	3.8	9