

Guanhe Rim

List of Publications by Year in descending order

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papers

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