Sunho Choi

List of Publications by Year
in descending order

20 papers	4,349 citations	516710 16 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	4466 citing authors

#	Article	IF	Citations
1	Adsorbent Materials for Carbon Dioxide Capture from Large Anthropogenic Point Sources. ChemSusChem, 2009, 2, 796-854.	6.8	2,178
2	Application of Amine-Tethered Solid Sorbents for Direct CO₂ Capture from the Ambient Air. Environmental Science & Technology, 2011, 45, 2420-2427.	10.0	385
3	Amineâ€Tethered Solid Adsorbents Coupling High Adsorption Capacity and Regenerability for CO₂ Capture From Ambient Air. ChemSusChem, 2011, 4, 628-635.	6.8	281
4	Modification of the Mg/DOBDC MOF with Amines to Enhance CO₂ Adsorption from Ultradilute Gases. Journal of Physical Chemistry Letters, 2012, 3, 1136-1141.	4.6	273
5	Synthesisâ€“Structureâ€“Property Relationships for Hyperbranched Aminosilica CO₂ Adsorbents. Advanced Functional Materials, 2009, 19, 3821-3832.	14.9	263
6	Amineâ€“Oxide Hybrid Materials for CO₂ Capture from Ambient Air. Accounts of Chemical Research, 2015, 48, 2680-2687.	15.6	222
7	Oxidative Degradation of Aminosilica Adsorbents Relevant to Postcombustion CO₂ Capture. Energy & Fuels, 2011, 25, 2416-2425.	5.1	154
8	Structural Changes of Silica Mesocellular Foam Supported Amine-Functionalized CO₂ Adsorbents Upon Exposure to Steam. ACS Applied Materials & Interfaces, 2010, 2, 3363-3372.	8.0	144
9	Layered Silicates by Swelling of AMHâ€3 and Nanocomposite Membranes. Angewandte Chemie - International Edition, 2008, 47, 552-555.	13.8	107
10	Effect of the structural constituents of metal organic frameworks onÂcarbon dioxide capture. Microporous and Mesoporous Materials, 2016, 219, 276-305.	4.4	75
11	Effect of support structure on CO2 adsorption properties of pore-expanded hyperbranched aminosilicas. Microporous and Mesoporous Materials, 2012, 151, 231-240.	4.4	59
12	Effect of Pore Structure on CO₂ Adsorption Characteristics of Aminopolymer Impregnated MCM-36. Langmuir, 2015, 31, 4534-4541.	3.5	43
13	Functionalization of Metalâ€“Organic Frameworks for Enhanced Stability under Humid Carbon Dioxide Capture Conditions. ChemSusChem, 2015, 8, 3405-3409.	6.8	35
14	Synthesis of a novel amorphous metal organic framework with hierarchical porosity for adsorptive gas separation. Microporous and Mesoporous Materials, 2021, 310, 110600.	4.4	27
15	Layered silicate by proton exchange and swelling of AMH-3. Microporous and Mesoporous Materials, 2008, 115, 75-84.	4.4	25
16	Pore structureâ€“CO₂ adsorption property relations of supported amine materials with multi-pore networks. Journal of Materials Chemistry A, 2017, 5, 8526-8536.	10.3	20
17	Rational Synthesis of a Hierarchical Supramolecular Porous Material Created via Self-Assembly of Metalâ€“Organic Framework Nanosheets. Inorganic Chemistry, 2020, 59, 3983-3992.	4.0	16
18	Electro- and photoelectro-catalysts derived from bimetallic amorphous metalâ€“organic frameworks. Catalysis Science and Technology, 2020, 10, 8265-8282.	4.1	13

#	Article	IF	Citations
19	Generation and use of a pure titanium pillared MCM-36 structure as a high efficiency carbon dioxide capture platform and amine loaded solid adsorbent. Microporous and Mesoporous Materials, 2019, 280, 151-156.	4.4	9
20	Flexible amorphous metalâ€“organic frameworks with Ï€ Lewis acidic pore surface for selective adsorptive separations. Dalton Transactions, 2021, 50, 3145-3154.	3.3	9