

Joshua A Thompson

List of Publications by Year in descending order

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15
papers

969
citations

840776

11
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	Process intensification of CO ₂ capture by low-aqueous solvent. Chemical Engineering Journal, 2021, 426, 131240.	12.7	18
2	Rate-Based Absorption Modeling for Postcombustion CO ₂ Capture with Additively Manufactured Structured Packing. Industrial & Engineering Chemistry Research, 2021, 60, 14845-14855.	3.7	6
3	Binary- and Pure-Component Adsorption of CO ₂ , H ₂ O, and C ₆ H ₁₄ on SSZ-13. Industrial & Engineering Chemistry Research, 2020, 59, 18151-18159.	3.7	13
4	Acid gas adsorption on zeolite α -SSZ-13: Equilibrium and dynamic behavior for natural gas applications. AIChE Journal, 2020, 66, e16549.	3.6	10
5	Improving Hydrodenitrogenation Catalyst Performance through Analyzing Hydrotreated Vacuum Gas Oil Using Ion Mobility Mass Spectrometry. Industrial & Engineering Chemistry Research, 2018, 57, 8845-8854.	3.7	6
6	High-throughput computational screening of nanoporous adsorbents for CO ₂ capture from natural gas. Molecular Systems Design and Engineering, 2016, 1, 175-188.	3.4	54
7	Mixed-linker zeolitic imidazolate framework mixed-matrix membranes for aggressive CO ₂ separation from natural gas. Microporous and Mesoporous Materials, 2014, 192, 43-51.	4.4	95
8	Effect of Crystal Size on Framework Defects and Water Uptake in Fluoride Mediated Silicalite-1. Chemistry of Materials, 2014, 26, 4368-4376.	6.7	16
9	SSZ-45: A High-Silica Zeolite with Small Pore Openings, Large Cavities, and Unusual Adsorption Properties. Chemistry of Materials, 2014, 26, 3909-3913.	6.7	42
10	Tunable CO ₂ Adsorbents by Mixed-Linker Synthesis and Postsynthetic Modification of Zeolitic Imidazolate Frameworks. Journal of Physical Chemistry C, 2013, 117, 8198-8207.	3.1	123
11	A high-flux polyimide hollow fiber membrane to minimize footprint and energy penalty for CO ₂ recovery from flue gas. Journal of Membrane Science, 2012, 423-424, 302-313.	8.2	67
12	Hybrid Zeolitic Imidazolate Frameworks: Controlling Framework Porosity and Functionality by Mixed-Linker Synthesis. Chemistry of Materials, 2012, 24, 1930-1936.	6.7	200
13	Sonication-induced Ostwald ripening of ZIF-8 nanoparticles and formation of ZIF-8/polymer composite membranes. Microporous and Mesoporous Materials, 2012, 158, 292-299.	4.4	171
14	Ethanol and water adsorption in methanol-derived ZIF-71. Chemical Communications, 2011, 47, 8667.	4.1	97
15	Solvothermal deposition and characterization of magnesium hydroxide nanostructures on zeolite crystals. Microporous and Mesoporous Materials, 2011, 139, 120-129.	4.4	51