Lee Stevens

List of Publications by Year in descending order

27 papers	1,378 citations	516710 16 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	2320 citing authors

#	Article	IF	Citations
1	Impact of Water Coadsorption for Carbon Dioxide Capture in Microporous Polymer Sorbents. Journal of the American Chemical Society, 2012, 134, 10741-10744.	13.7	259
2	Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.	6.7	255
3	Swellable, Water- and Acid-Tolerant Polymer Sponges for Chemoselective Carbon Dioxide Capture. Journal of the American Chemical Society, 2014, 136, 9028-9035.	13.7	201
4	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. Physical Chemistry Chemical Physics, 2016, 18, 10727-10738.	2.8	135
5	Experimental study of mercury removal from exhaust gases. Fuel, 2014, 128, 451-457.	6.4	88
6	Preparation and CO2 adsorption of diamine modified montmorillonite via exfoliation grafting route. Chemical Engineering Journal, 2013, 215-216, 699-708.	12.7	74
7	Synthesis, characterization and evaluation of activated spherical carbon materials for CO2 capture. Fuel, 2013, 113, 854-862.	6.4	47
8	High capacity co-precipitated manganese oxides sorbents for oxidative mercury capture. Fuel, 2013, 109, 559-562.	6.4	39
9	Ni Mg Mixed Metal Oxides for p-Type Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 24556-24565.	8.0	34
10	High Density and Super Ultraâ€Microporousâ€Activated Carbon Macrospheres with High Volumetric Capacity for CO₂ Capture. Advanced Sustainable Systems, 2018, 2, 1700115.	5.3	30
11	Mesocellular silica foam supported polyamine adsorbents for dry CO2 scrubbing: Performance of single versus blended polyamines for impregnation. Applied Energy, 2019, 255, 113643.	10.1	23
12	Direct primary brown coal liquefaction via non-catalytic and catalytic co-processing with model, waste and petroleum-derived hydrogen donors. Fuel, 2018, 234, 364-370.	6.4	22
13	Evaluation of hydrochars from lignin hydrous pyrolysis to produce biocokes after carbonization. Journal of Analytical and Applied Pyrolysis, 2017, 124, 742-751.	5.5	21
14	Synthesis of functionalized 3D microporous carbon foams for selective CO2 capture. Chemical Engineering Journal, 2020, 402, 125459.	12.7	20
15	Efficient dye-removal via Ni-decorated graphene oxide-carbon nanotube nanocomposites. Materials Chemistry and Physics, 2021, 260, 124117.	4.0	20
16	Continuous testing of silica-PEI adsorbents in a lab.-scale twin bubbling fluidized-bed system. International Journal of Greenhouse Gas Control, 2019, 82, 184-191.	4.6	19
17	Pore structural evolution of shale following thermochemical treatment. Marine and Petroleum Geology, 2020, 112, 104058.	3.3	16
18	Reduced Graphene Oxide-NiO Photocathodes for p-Type Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2019, 2, 7345-7353.	5.1	15

#	Article	IF	Citations
19	Comparison of the impact of moisture on methane adsorption and nanoporosity for over mature shales and their kerogens. International Journal of Coal Geology, 2021, 237, 103705.	5.0	14
20	Formation of Metallurgical Coke within Minutes through Coal Densification and Microwave Energy. Energy & Fuels, 2019, 33, 6817-6828.	5.1	13
21	Functionalization of Silica SBA-15 with [3-(2-Aminoethylamino)Propyl] Trimethoxysilane in Supercritical CO2 Modified with Methanol or Ethanol for Carbon Capture. Energies, 2020, 13, 5804.	3.1	13
22	Determination of Pore Network Accessibility in Hierarchical Porous Solids. Industrial & Engineering Chemistry Research, 2017, 56, 14822-14831.	3.7	7
23	Understanding the unusual fluidity characteristics of high ash Indian bituminous coals. Fuel Processing Technology, 2018, 176, 258-266.	7.2	5
24	Structural and chemical heterogeneity in ancient glass probed using gas overcondensation, X-ray tomography, and solid-state NMR. Materials Characterization, 2020, 167, 110467.	4.4	5
25	The effect of oil extraction on porosity and methane adsorption for dry and moisture-equilibrated shales. Fuel, 2022, 316, 123304.	6.4	3
26	Surface Bespoke Mesoporous Silica for Carbon Dioxide Adsorption. Journal of Environmental Engineering, ASCE, 2014, 140, 04014031.	1.4	0
27	Bed Height of Zeolite Affected CO2 Hydrate Formation Using High Pressure Volumetric Analyzer. Asian Journal of Chemistry, 2018, 30, 2269-2272.	0.3	0