Timothy J Mays

List of Publications by Year
in descending order

22 papers	492 citations	516710 16 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	582 citing authors

#	Article	IF	Citations
1	Direct Evidence for Solid-like Hydrogen in a Nanoporous Carbon Hydrogen Storage Material at Supercritical Temperatures. ACS Nano, 2015, 9, 8249-8254.	14.6	57
2	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. Journal of Materials Science, 2017, 52, 3862-3875.	3.7	51
3	Hydrogen storage in polymer-based processable microporous composites. Journal of Materials Chemistry A, 2017, 5, 18752-18761.	10.3	43
4	Structureâ€“property relationships in metal-organic frameworks for hydrogen storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 496, 77-85.	4.7	31
5	Supercritical hydrogen adsorption in nanostructured solids with hydrogen density variation in pores. Adsorption, 2013, 19, 643-652.	3.0	29
6	Analysis of hydrogen storage in nanoporous materials for low carbon energy applications. Faraday Discussions, 2011, 151, 59.	3.2	26
7	Analysis of the oxidation reactivity of carbonaceous materials using thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2005, 80, 109-113.	3.6	25
8	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. Carbon, 2021, 173, 968-979.	10.3	25
9	Nanoporous polymer-based composites for enhanced hydrogen storage. Adsorption, 2019, 25, 889-901.	3.0	24
10	Atomistic Insights into the Effects of Doping and Vacancy Clustering on Li-Ion Conduction in the Li₃OCl Antiperovskite Solid Electrolyte. ACS Applied Energy Materials, 2021, 4, 5094-5100.	5.1	24
11	Isosteric enthalpies for hydrogen adsorbed on nanoporous materials at high pressures. Adsorption, 2014, 20, 373-384.	3.0	23
12	Improving comparability of hydrogen storage capacities ofÂnanoporous materials. International Journal of Hydrogen Energy, 2012, 37, 2728-2736.	7.1	22
13	High volumetric and energy densities of methane stored in nanoporous materials at ambient temperatures and moderate pressures. Chemical Engineering Journal, 2015, 272, 38-47.	12.7	20
14	Assessment of the long-term stability of the polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. International Journal of Hydrogen Energy, 2019, 44, 332-337.	7.1	17
15	Analysis of optimal conditions for adsorptive hydrogen storage in microporous solids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 437, 113-119.	4.7	16
16	Chemical modification of the polymer of intrinsic microporosity PIM-1 for enhanced hydrogen storage. Adsorption, 2020, 26, 1083-1091.	3.0	16
17	The use of tg to measure different concentrations of lime in non-hydraulic lime mortars. Journal of Thermal Analysis and Calorimetry, 2006, 85, 377-382.	3.6	14
18	Nonuniform channels in adsorbent monoliths. AICHE Journal, 2011, 57, 1163-1172.	3.6	8

#	Article	IF	Citations
19	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. ACS Applied Polymer Materials, 2021, 3, 920-928.	4.4	8
20	Enhancement of gas storage and separation properties of microporous polymers by simple chemical modifications. Multifunctional Materials, 2021, 4, 025002.	3.7	5
21	Molecular simulation of hydrogen storage and transport in cellulose. Molecular Simulation, 2021, 47, 170-179.	2.0	3
22	Hydrogen Adsorption in Metalâ€“Organic Framework MIL-101(Cr)â€”Adsorbate Densities and Enthalpies from Sorption, Neutron Scattering, In Situ X-ray Diffraction, Calorimetry, and Molecular Simulations. ACS Applied Energy Materials, 2021, 4, 7839-7847.	5.1	2