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	Molecular simulation of hydrogen storage and transport in cellulose. Molecular Simulation, 2021, 47, 170-179.	2.0	3
2	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. Carbon, 2021, 173, 968-979.	10.3	25
3	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. ACS Applied Polymer Materials, 2021, 3, 920-928.	4.4	8
4	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
5	Enhancement of gas storage and separation properties of microporous polymers by simple chemical modifications. Multifunctional Materials, 2021, 4, 025002.	3.7	5
6	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
7	Chemical modification of the polymer of intrinsic microporosity PIM-1 for enhanced hydrogen storage. Adsorption, 2020, 26, 1083-1091.	3.0	16
8	Nanoporous polymer-based composites for enhanced hydrogen storage. Adsorption, 2019, 25, 889-901.	3.0	24
9	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
10	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. Journal of Materials Science, 2017, 52, 3862-3875.	3.7	51
11	Hydrogen storage in polymer-based processable microporous composites. Journal of Materials Chemistry A, 2017, 5, 18752-18761.	10.3	43
12	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
13	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
14	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
15	Isosteric enthalpies for hydrogen adsorbed on nanoporous materials at high pressures. Adsorption, 2014, 20, 373-384.	3.0	23
16	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
17	Supercritical hydrogen adsorption in nanostructured solids with hydrogen density variation in pores. Adsorption, 2013, 19, 643-652.	3.0	29
18	Improving comparability of hydrogen storage capacities ofÂnanoporous materials. International Journal of Hydrogen Energy, 2012, 37, 2728-2736.	7.1	22

#	Article	IF	Citations
19	Analysis of hydrogen storage in nanoporous materials for low carbon energy applications. Faraday Discussions, 2011, 151, 59.	3.2	26
20	Nonuniform channels in adsorbent monoliths. AICHE Journal, 2011, 57, 1163-1172.	3.6	8
21	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
22	Analysis of the oxidation reactivity of carbonaceous materials using thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2005, 80, 109-113.	3.6	25