Darren P Broom

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Materials for hydrogen-based energy storage – past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	5.5	518
2	Concepts for improving hydrogen storage in nanoporous materials. International Journal of Hydrogen Energy, 2019, 44, 7768-7779.	7.1	160
3	Hydrogen Storage Materials. Green Energy and Technology, 2011, , .	0.6	141
4	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. Energy and Environmental Science, 2010, 3, 1469.	30.8	138
5	Outlook and challenges for hydrogen storage in nanoporous materials. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	129
6	The accuracy of hydrogen sorption measurements on potential storage materials. International Journal of Hydrogen Energy, 2007, 32, 4871-4888.	7.1	114
7	Irreproducibility in hydrogen storage material research. Energy and Environmental Science, 2016, 9, 3368-3380.	30.8	96
8	Characterisation of porous hydrogen storage materials: carbons, zeolites, MOFs and PIMs. Faraday Discussions, 2011, 151, 75.	3.2	75
9	Gas adsorption by nanoporous materials: Future applications and experimental challenges. MRS Bulletin, 2013, 38, 412-421.	3.5	65
10	A reference high-pressure CO2 adsorption isotherm for ammonium ZSM-5 zeolite: results of an interlaboratory study. Adsorption, 2018, 24, 531-539.	3.0	59
11	Hydrogen Storage in Mesoporous Coordination Frameworks: Experiment and Molecular Simulation. Journal of Physical Chemistry C, 2009, 113, 15106-15109.	3.1	52
12	Pitfalls in the characterisation of the hydrogen sorption properties of materials. International Journal of Hydrogen Energy, 2017, 42, 29320-29343.	7.1	40
13	Accuracy in hydrogen sorption measurements. Journal of Alloys and Compounds, 2007, 446-447, 687-691.	5.5	24
14	Improving Reproducibility in Hydrogen Storage Material Research. ChemPhysChem, 2021, 22, 2141-2157.	2.1	16
15	Monte Carlo simulation of quasielastic neutron scattering from localised and long-range hydrogen motion in C15 Laves phase intermetallic compounds. Chemical Physics, 2003, 292, 153-160.	1.9	15
16	Magnetic properties of commercial metal hydride battery materials. Journal of Alloys and Compounds, 1999, 293-295, 255-259.	5.5	14
17	Integral Mass Balance (IMB) Method for Measuring Multicomponent Gas Adsorption Equilibria in Nanoporous Materials. Industrial & Engineering Chemistry Research, 2020, 59, 20478-20491.	3.7	13
18	Magnetic properties of the YCo3–H system. Journal of Alloys and Compounds, 2003, 356-357, 174-177.	5.5	7

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#	Article	IF	CITATIONS
19	Potential Storage Materials. Green Energy and Technology, 2011, , 19-59.	0.6	7
20	Hydrogen Sorption Properties of Materials. Green Energy and Technology, 2011, , 61-115.	0.6	7
21	Observations of twinning in YBa2Cu3O6 Âx, 0 <x< 1,="" 14,="" 2002,="" 9763-9778.<="" at="" condensed="" high="" journal="" matter,="" of="" physics="" td="" temperatures.=""><td>1.8</td><td>6</td></x<>	1.8	6
22	First Measurements for the Simultaneous Sorption of Difluoromethane and Pentafluoroethane Mixtures in Ionic liquids Using the Integral Mass Balance Method. Industrial & Engineering Chemistry Research, 2022, 61, 9774-9784.	3.7	6
23	Gas Sorption Measurement Techniques. Green Energy and Technology, 2011, , 117-139.	0.6	3
24	Hydrogen storage in nanoporous materials. , 2014, , 410-450.		2
25	Complementary Characterisation Techniques. Green Energy and Technology, 2011, , 141-181.	0.6	1
26	Experimental Considerations. Green Energy and Technology, 2011, , 183-234.	0.6	0