

Darren P Broom

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,710
citations

623574

14
h-index

580701

25
g-index

29
all docs

29
docs citations

29
times ranked

2064
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for hydrogen-based energy storage – past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020, 827, 153548.	2.8	518
2	Concepts for improving hydrogen storage in nanoporous materials. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7768-7779.	3.8	160
3	Hydrogen Storage Materials. <i>Green Energy and Technology</i> , 2011, , .	0.4	141
4	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. <i>Energy and Environmental Science</i> , 2010, 3, 1469.	15.6	138
5	Outlook and challenges for hydrogen storage in nanoporous materials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	129
6	The accuracy of hydrogen sorption measurements on potential storage materials. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4871-4888.	3.8	114
7	Irreproducibility in hydrogen storage material research. <i>Energy and Environmental Science</i> , 2016, 9, 3368-3380.	15.6	96
8	Characterisation of porous hydrogen storage materials: carbons, zeolites, MOFs and PIMs. <i>Faraday Discussions</i> , 2011, 151, 75.	1.6	75
9	Gas adsorption by nanoporous materials: Future applications and experimental challenges. <i>MRS Bulletin</i> , 2013, 38, 412-421.	1.7	65
10	A reference high-pressure CO ₂ adsorption isotherm for ammonium ZSM-5 zeolite: results of an interlaboratory study. <i>Adsorption</i> , 2018, 24, 531-539.	1.4	59
11	Hydrogen Storage in Mesoporous Coordination Frameworks: Experiment and Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15106-15109.	1.5	52
12	Pitfalls in the characterisation of the hydrogen sorption properties of materials. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29320-29343.	3.8	40
13	Accuracy in hydrogen sorption measurements. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 687-691.	2.8	24
14	Improving Reproducibility in Hydrogen Storage Material Research. <i>ChemPhysChem</i> , 2021, 22, 2141-2157.	1.0	16
15	Monte Carlo simulation of quasielastic neutron scattering from localised and long-range hydrogen motion in C15 Laves phase intermetallic compounds. <i>Chemical Physics</i> , 2003, 292, 153-160.	0.9	15
16	Magnetic properties of commercial metal hydride battery materials. <i>Journal of Alloys and Compounds</i> , 1999, 293-295, 255-259.	2.8	14
17	Integral Mass Balance (IMB) Method for Measuring Multicomponent Gas Adsorption Equilibria in Nanoporous Materials. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20478-20491.	1.8	13
18	Magnetic properties of the YCo ₃ H system. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 174-177.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Potential Storage Materials. Green Energy and Technology, 2011, , 19-59.	0.4	7
20	Hydrogen Sorption Properties of Materials. Green Energy and Technology, 2011, , 61-115.	0.4	7
21	Observations of twinning in $\text{YBa}_2\text{Cu}_3\text{O}_{6-x}$, $0 < x < 1$, at high temperatures. Journal of Physics Condensed Matter, 2002, 14, 9763-9778.	0.7	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.	1.8	6
23	Gas Sorption Measurement Techniques. Green Energy and Technology, 2011, , 117-139.	0.4	3
24	Hydrogen storage in nanoporous materials. , 2014, , 410-450.		2
25	Complementary Characterisation Techniques. Green Energy and Technology, 2011, , 141-181.	0.4	1
26	Experimental Considerations. Green Energy and Technology, 2011, , 183-234.	0.4	0