

# 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	First Measurements for the Simultaneous Sorption of Difluoromethane and Pentafluoroethane Mixtures in Ionic liquids Using the Integral Mass Balance Method. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 9774-9784.	1.8	6
2	Improving Reproducibility in Hydrogen Storage Material Research. <i>ChemPhysChem</i> , 2021, 22, 2141-2157.	1.0	16
3	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
4	Integral Mass Balance (IMB) Method for Measuring Multicomponent Gas Adsorption Equilibria in Nanoporous Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20478-20491.	1.8	13
5	Concepts for improving hydrogen storage in nanoporous materials. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7768-7779.	3.8	160
6	A reference high-pressure CO <sub>2</sub> adsorption isotherm for ammonium ZSM-5 zeolite: results of an interlaboratory study. <i>Adsorption</i> , 2018, 24, 531-539.	1.4	59
7	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
8	Outlook and challenges for hydrogen storage in nanoporous materials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	129
9	Irreproducibility in hydrogen storage material research. <i>Energy and Environmental Science</i> , 2016, 9, 3368-3380.	15.6	96
10	Hydrogen storage in nanoporous materials. , 2014, , 410-450.		2
11	Gas adsorption by nanoporous materials: Future applications and experimental challenges. <i>MRS Bulletin</i> , 2013, 38, 412-421.	1.7	65
12	Potential Storage Materials. <i>Green Energy and Technology</i> , 2011, , 19-59.	0.4	7
13	Hydrogen Sorption Properties of Materials. <i>Green Energy and Technology</i> , 2011, , 61-115.	0.4	7
14	Experimental Considerations. <i>Green Energy and Technology</i> , 2011, , 183-234.	0.4	0
15	Complementary Characterisation Techniques. <i>Green Energy and Technology</i> , 2011, , 141-181.	0.4	1
16	Gas Sorption Measurement Techniques. <i>Green Energy and Technology</i> , 2011, , 117-139.	0.4	3
17	Characterisation of porous hydrogen storage materials: carbons, zeolites, MOFs and PIMs. <i>Faraday Discussions</i> , 2011, 151, 75.	1.6	75
18	Hydrogen Storage Materials. <i>Green Energy and Technology</i> , 2011, , .	0.4	141

#	ARTICLE	IF	CITATIONS
19	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
20	Hydrogen Storage in Mesoporous Coordination Frameworks: Experiment and Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15106-15109.	1.5	52
21	Accuracy in hydrogen sorption measurements. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 687-691.	2.8	24
22	The accuracy of hydrogen sorption measurements on potential storage materials. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4871-4888.	3.8	114
23	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
24	Magnetic properties of the $\text{YCo}_3\text{H}$ system. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 174-177.	2.8	7
25	Observations of twinning in $\text{YBa}_2\text{Cu}_3\text{O}_{6-x}$ , $0 < x < 1$ , at high temperatures. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9763-9778.	0.7	6
26	Magnetic properties of commercial metal hydride battery materials. <i>Journal of Alloys and Compounds</i> , 1999, 293-295, 255-259.	2.8	14