

David G Madden

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,679
citations

19
h-index

40
g-index

42
ext. papers

2,280
ext. citations

9.2
avg. IF

4.79
L-index

#	Paper	IF	Citations
38	Direct Air Capture of CO ₂ by Physisorbent Materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14372-7	16.4	260
37	Benchmark C ₂ H ₂ /CO ₂ and CO ₂ /C ₂ H ₂ Separation by Two Closely Related Hybrid Ultramicroporous Materials. <i>Chem</i> , 2016 , 1, 753-765	16.2	232
36	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10268-72	16.4	185
35	Synergistic sorbent separation for one-step ethylene purification from a four-component mixture. <i>Science</i> , 2019 , 366, 241-246	33.3	177
34	Shaping the Future of Fuel: Monolithic Metal-Organic Frameworks for High-Density Gas Storage. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8541-8549	16.4	82
33	Highly Selective Separation of CH ₄ from CO ₂ by a New Dichromate-Based Hybrid Ultramicroporous Material. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33395-33400	9.5	81
32	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. <i>Chemical Communications</i> , 2017 , 53, 5946-5949	5.8	66
31	Trace CO capture by an ultramicroporous physisorbent with low water affinity. <i>Science Advances</i> , 2019 , 5, eaax9171	14.3	62
30	Crystal engineering of a family of hybrid ultramicroporous materials based upon interpenetration and dichromate linkers. <i>Chemical Science</i> , 2016 , 7, 5470-5476	9.4	56
29	25 Years of Reticular Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23946-23974	16.4	50
28	Flue-gas and direct-air capture of CO ₂ by porous metal-organic materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	48
27	Specific K Binding Sites as CO Traps in a Porous MOF for Enhanced CO Selective Sorption. <i>Small</i> , 2019 , 15, e1900426	11	45
26	Efficient CO Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3332-3336	16.4	38
25	Carbon dioxide capture with amino-functionalised zeolite- β A temperature programmed desorption study under dry and humid conditions. <i>Microporous and Mesoporous Materials</i> , 2016 , 228, 310-317	5.3	37
24	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO ₂ . <i>Angewandte Chemie</i> , 2016 , 128, 10424-10428	3.6	34
23	The effect of centred versus offset interpenetration on CH ₄ sorption in hybrid ultramicroporous materials. <i>Chemical Communications</i> , 2017 , 53, 11592-11595	5.8	32
22	Impact of partial interpenetration in a hybrid ultramicroporous material on CH ₄ /CH ₂ separation performance. <i>Chemical Communications</i> , 2018 , 54, 3488-3491	5.8	29

21	Direct Air Capture of CO ₂ by Physisorbent Materials. <i>Angewandte Chemie</i> , 2015 , 127, 14580-14585	3.6	29
20	Highly selective CO removal for one-step liquefied natural gas processing by physisorbents. <i>Chemical Communications</i> , 2019 , 55, 3219-3222	5.8	23
19	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10902-10909	16.4	16
18	A Microporous Co-MOF for Highly Selective CO Sorption in High Loadings Involving Aryl C-H...O...C...O Interactions: Combined Simulation and Breakthrough Studies. <i>Inorganic Chemistry</i> , 2019 , 58, 11553-11560	5.1	13
17	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2201502	24	12
16	Metal-Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33759-33764	9.5	9
15	Enhanced Stability toward Humidity in a Family of Hybrid Ultramicroporous Materials Incorporating Cr ₂ O ₇ ²⁻ Pillars. <i>Crystal Growth and Design</i> , 2017 , 17, 1933-1937	3.5	8
14	Efficient CO ₂ Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. <i>Angewandte Chemie</i> , 2018 , 130, 3390-3394	3.6	8
13	Immobilization of a Polar Sulfone Moiety onto the Pore Surface of a Humid-Stable MOF for Highly Efficient CO Separation under Dry and Wet Environments through Direct CO-Sulfone Interactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41177-41184	9.5	7
12	CO ₂ sorption performance by aminosilane functionalized spheres prepared via co-condensation and post-synthesis methods. <i>AIChE Journal</i> , 2016 , 62, 2825-2832	3.6	6
11	Insights into the electric double-layer capacitance of two-dimensional electrically conductive metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16006-16015	13	6
10	Finding the Optimal Balance between the Pore Size and Pore Chemistry in Hybrid Ultramicroporous Materials for Trace Acetylene Capture. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6000-6004	5.6	6
9	Identifying Differing Intracellular Cargo Release Mechanisms by Monitoring Drug Delivery from MOFs in Real Time. <i>Cell Reports Physical Science</i> , 2020 , 1, 100254	6.1	5
8	How Reproducible Are Surface Areas Calculated from the BET Equation?		5
7	Highly selective trace ammonium removal from dairy wastewater streams by aluminosilicate materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 86, 39-46	6.3	4
6	CO ₂ Capture: Specific K ⁺ Binding Sites as CO ₂ Traps in a Porous MOF for Enhanced CO ₂ Selective Sorption (Small 22/2019). <i>Small</i> , 2019 , 15, 1970118	11	2
5	Tuning the Selectivity between CH ₄ and CO in Molecular Porous Materials. <i>Langmuir</i> , 2021 , 37, 13838-13845	14.5	2
4	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. <i>Angewandte Chemie</i> , 2021 , 133, 10997-11004	3.6	2

- 3 Pseudomorphic transformation and post synthetic modification of amorphous silica for CO₂ sorption applications. *SN Applied Sciences*, **2019**, 1, 1 1.8 ○
- 2 25 Jahre retikuläre Chemie. *Angewandte Chemie*, **2021**, 133, 24142 3.6 ○
- 1 Monolithic metal-organic frameworks for carbon dioxide separation. *Faraday Discussions*, **2021**, 231, 51-65 6.5 ○