David G Madden

List of Publications by Year in Descending Order

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	Tuning the Selectivity between CH and CO in Molecular Porous Materials. *Langmuir*, **2021**, 37, 13838-13845	4	2
37	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. *Angewandte Chemie*, **2021**, 133, 10997-11004	3.6	2
36	Amino-Functionalised Hybrid Ultramicroporous Materials that Enable Single-Step Ethylene Purification from a Ternary Mixture. *Angewandte Chemie - International Edition*, **2021**, 60, 10902-10909	16.4	16
35	25 Jahre retikulÐre Chemie. *Angewandte Chemie*, **2021**, 133, 24142	3.6	0
34	Monolithic metal-organic frameworks for carbon dioxide separation. *Faraday Discussions*, **2021**, 231, 51-66	3.6	0
33	Insights into the electric double-layer capacitance of two-dimensional electrically conductive metal-organic frameworks. *Journal of Materials Chemistry A*, **2021**, 9, 16006-16015	13	6
32	25 Years of Reticular Chemistry. *Angewandte Chemie - International Edition*, **2021**, 60, 23946-23974	16.4	50
31	Metal-Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 33759-33764	9.5	9
30	Shaping the Future of Fuel: Monolithic Metal-Organic Frameworks for High-Density Gas Storage. *Journal of the American Chemical Society*, **2020**, 142, 8541-8549	16.4	82
29	Highly selective trace ammonium removal from dairy wastewater streams by aluminosilicate materials. *Journal of Industrial and Engineering Chemistry*, **2020**, 86, 39-46	6.3	4
28	Identifying Differing Intracellular Cargo Release Mechanisms by Monitoring Drug Delivery from MOFs in Real Time. *Cell Reports Physical Science*, **2020**, 1, 100254	6.1	5
27	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. *ACS Applied Materials & Interfaces*, **2020**, 12, 41177-41184	9.5	7
26	Pseudomorphic transformation and post synthetic modification of amorphous silica for CO2 sorption applications. *SN Applied Sciences*, **2019**, 1, 1	1.8	0
25	CO2 Capture: Specific K+ Binding Sites as CO2 Traps in a Porous MOF for Enhanced CO2 Selective Sorption (Small 22/2019). *Small*, **2019**, 15, 1970118	11	2
24	Specific K Binding Sites as CO Traps in a Porous MOF for Enhanced CO Selective Sorption. *Small*, **2019**, 15, e1900426	11	45
23	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. *Inorganic Chemistry*, **2019**, 58, 11553-11560	5.1	13
22	Synergistic sorbent separation for one-step ethylene purification from a four-component mixture. *Science*, **2019**, 366, 241-246	33.3	177

21	Highly selective CO removal for one-step liquefied natural gas processing by physisorbents. *Chemical Communications*, **2019**, 55, 3219-3222	5.8	23
20	Trace CO capture by an ultramicroporous physisorbent with low water affinity. *Science Advances*, **2019**, 5, eaax9171	14.3	62
19	Efficient CO Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. *Angewandte Chemie - International Edition*, **2018**, 57, 3332-3336	16.4	38
18	Efficient CO2 Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. *Angewandte Chemie*, **2018**, 130, 3390-3394	3.6	8
17	Impact of partial interpenetration in a hybrid ultramicroporous material on CH/CH separation performance. *Chemical Communications*, **2018**, 54, 3488-3491	5.8	29
16	Finding the Optimal Balance between the Pore Size and Pore Chemistry in Hybrid Ultramicroporous Materials for Trace Acetylene Capture. *ACS Applied Nano Materials*, **2018**, 1, 6000-6004	5.6	6
15	Highly Selective Separation of CH from CO by a New Dichromate-Based Hybrid Ultramicroporous Material. *ACS Applied Materials & Interfaces*, **2017**, 9, 33395-33400	9.5	81
14	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. *Chemical Communications*, **2017**, 53, 5946-5949	5.8	66
13	Flue-gas and direct-air capture of CO2 by porous metal-organic materials. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	48
12	Enhanced Stability toward Humidity in a Family of Hybrid Ultramicroporous Materials Incorporating Cr2O72 Pillars. *Crystal Growth and Design*, **2017**, 17, 1933-1937	3.5	8
11	The effect of centred versus offset interpenetration on CH sorption in hybrid ultramicroporous materials. *Chemical Communications*, **2017**, 53, 11592-11595	5.8	32
10	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO2. *Angewandte Chemie*, **2016**, 128, 10424-10428	3.6	34
9	Tuning Pore Size in Square-Lattice Coordination Networks for Size-Selective Sieving of CO2. *Angewandte Chemie - International Edition*, **2016**, 55, 10268-72	16.4	185
8	CO2 sorption performance by aminosilane functionalized spheres prepared via co-condensation and post-synthesis methods. *AICHE Journal*, **2016**, 62, 2825-2832	3.6	6
7	Benchmark C2H2/CO2 and CO2/C2H2 Separation by Two Closely Related Hybrid Ultramicroporous Materials. *CheM*, **2016**, 1, 753-765	16.2	232
6	Carbon dioxide capture with amino-functionalised zeolite- A temperature programmed desorption study under dry and humid conditions. *Microporous and Mesoporous Materials*, **2016**, 228, 310-317	5.3	37
5	Crystal engineering of a family of hybrid ultramicroporous materials based upon interpenetration and dichromate linkers. *Chemical Science*, **2016**, 7, 5470-5476	9.4	56
4	Direct Air Capture of CO2 by Physisorbent Materials. *Angewandte Chemie*, **2015**, 127, 14580-14585	3.6	29

3	Direct Air Capture of CO2 by Physisorbent Materials. *Angewandte Chemie - International Edition*, **2015**, 54, 14372-7	16.4	260
2	How Reproducible Are Surface Areas Calculated from the BET Equation?		5
1	How Reproducible are Surface Areas Calculated from the BET Equation?. *Advanced Materials*,2201502	24	12