

# Thomas M McDonald

## List of Publications by Year in descending order

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16  
papers

9,495  
citations

567281

15  
h-index

940533

16  
g-index

18  
all docs

18  
docs citations

18  
times ranked

9940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Dioxide Capture in Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 724-781.	47.7	5,612
2	Capture of Carbon Dioxide from Air and Flue Gas in the Alkylamine-Appended Metal-Organic Framework $Mg_2(dobpdc)$ . <i>Journal of the American Chemical Society</i> , 2012, 134, 7056-7065.	13.7	1,038
3	Cooperative insertion of CO <sub>2</sub> in diamine-appended metal-organic frameworks. <i>Nature</i> , 2015, 519, 303-308.	27.8	1,026
4	Enhanced carbon dioxide capture upon incorporation of N,N'-dimethylethylenediamine in the metal-organic framework CuBTC. <i>Chemical Science</i> , 2011, 2, 2022.	7.4	491
5	Application of a High-Throughput Analyzer in Evaluating Solid Adsorbents for Post-Combustion Carbon Capture via Multicomponent Adsorption of CO <sub>2</sub> , N <sub>2</sub> , and H <sub>2</sub> O. <i>Journal of the American Chemical Society</i> , 2015, 137, 4787-4803.	13.7	305
6	Ammonia Capture in Porous Organic Polymers Densely Functionalized with Brønsted Acid Groups. <i>Journal of the American Chemical Society</i> , 2014, 136, 2432-2440.	13.7	244
7	The Mechanism of Carbon Dioxide Adsorption in an Alkylamine-Functionalized Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 7402-7405.	13.7	208
8	Controlling Cooperative CO <sub>2</sub> Adsorption in Diamine-Appended $Mg_2(dobpdc)$ Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 10526-10538.	13.7	205
9	Understanding CO <sub>2</sub> Dynamics in Metal-Organic Frameworks with Open Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4410-4413.	13.8	160
10	Probing Adsorption Interactions in Metal-Organic Frameworks using X-ray Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 18183-18190.	13.7	56
11	Probing the mechanism of CO <sub>2</sub> capture in diamine-appended metal-organic frameworks using measured and simulated X-ray spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21448-21457.	2.8	43
12	Nickel(ii) and copper(i,ii)-based metal-organic frameworks incorporating an extended tris-pyrazolate linker. <i>CrystEngComm</i> , 2015, 17, 4992-5001.	2.6	23
13	Amine Dynamics in Diamine-Appended $Mg_2(dobpdc)$ Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7044-7049.	4.6	18
14	Uncovering the Local Magnesium Environment in the Metal-Organic Framework $Mg_2(dobpdc)$ Using <sup>25</sup> Mg NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19938-19945.	3.1	16
15	Rapidly assessing the activation conditions and porosity of metal-organic frameworks using thermogravimetric analysis. <i>Chemical Communications</i> , 2015, 51, 4985-4988.	4.1	11
16	Innenr&#246;cktitelbild: Understanding CO <sub>2</sub> Dynamics in Metal-Organic Frameworks with Open Metal Sites ( <i>Angew. Chem.</i> 16/2013). <i>Angewandte Chemie</i> , 2013, 125, 4589-4589.	2.0	0