

# Phillip J Milner

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,625  
citations

236833

25  
h-index

289141

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative carbon capture and steam regeneration with tetraamine-appended metal-organic frameworks. <i>Science</i> , 2020, 369, 392-396.	6.0	249
2	A Diaminopropane-Appended Metal-Organic Framework Enabling Efficient CO <sub>2</sub> Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. <i>Journal of the American Chemical Society</i> , 2017, 139, 13541-13553.	6.6	206
3	Controlling Cooperative CO <sub>2</sub> Adsorption in Diamine-Appended Mg <sub>2</sub> (dobpdc) Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 10526-10538.	6.6	205
4	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 3412-3422.	6.6	150
5	Pd-Catalyzed Nucleophilic Fluorination of Aryl Bromides. <i>Journal of the American Chemical Society</i> , 2014, 136, 3792-3795.	6.6	149
6	Evidence for in Situ Catalyst Modification during the Pd-Catalyzed Conversion of Aryl Triflates to Aryl Fluorides. <i>Journal of the American Chemical Society</i> , 2011, 133, 18106-18109.	6.6	142
7	Pore Environment Effects on Catalytic Cyclohexane Oxidation in Expanded Fe <sub>2</sub> (dobdc) Analogues. <i>Journal of the American Chemical Society</i> , 2016, 138, 14371-14379.	6.6	137
8	An Improved Catalyst System for the Pd-Catalyzed Fluorination of (Hetero)Aryl Triflates. <i>Organic Letters</i> , 2013, 15, 5602-5605.	2.4	124
9	Challenges and opportunities for adsorption-based CO <sub>2</sub> capture from natural gas combined cycle emissions. <i>Energy and Environmental Science</i> , 2019, 12, 2161-2173.	15.6	119
10	Elucidating CO <sub>2</sub> Chemisorption in Diamine-Appended Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 18016-18031.	6.6	107
11	Water Enables Efficient CO <sub>2</sub> Capture from Natural Gas Flue Emissions in an Oxidation-Resistant Diamine-Appended Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 13171-13186.	6.6	107
12	Overcoming double-step CO <sub>2</sub> adsorption and minimizing water co-adsorption in bulky diamine-appended variants of Mg <sub>2</sub> (dobpdc). <i>Chemical Science</i> , 2018, 9, 160-174.	3.7	88
13	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 16000-16012.	6.6	82
14	Investigating the Dearomative Rearrangement of Biaryl Phosphine-Ligated Pd(II) Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 19922-19934.	6.6	80
15	Virtually Instantaneous, Room-Temperature [ <sup>11</sup> C]-Cyanation Using Biaryl Phosphine Pd(0) Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 648-651.	6.6	68
16	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metal-Organic Framework Zn <sub>2</sub> (dobpdc). <i>Journal of the American Chemical Society</i> , 2018, 140, 1663-1673.	6.6	64
17	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19468-19477.	7.2	58
18	Rapid mechanochemical synthesis of metal-organic frameworks using exogenous organic base. <i>Dalton Transactions</i> , 2020, 49, 16238-16244.	1.6	52

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19	Overcoming Metastable CO <sub>2</sub> Adsorption in a Bulky Diamine-Appended Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 15258-15270.	6.6	51
20	Studying Regioisomer Formation in the Pd-Catalyzed Fluorination of Aryl Triflates by Deuterium Labeling. <i>Journal of the American Chemical Society</i> , 2014, 136, 15757-15766.	6.6	48
21	In-Depth Assessment of the Palladium-Catalyzed Fluorination of Five-Membered Heteroaryl Bromides. <i>Organometallics</i> , 2015, 34, 4775-4780.	1.1	41
22	Evaluating the Robustness of Metal-Organic Frameworks for Synthetic Chemistry. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17517-17531.	4.0	35
23	Kinetics of cooperative CO <sub>2</sub> adsorption in diamine-appended variants of the metal-organic framework Mg <sub>2</sub> (dobpdc). <i>Chemical Science</i> , 2020, 11, 6457-6471.	3.7	34
24	Structure and reactivity of [(L·Pd) <sub>n</sub> ·(1,5-cyclooctadiene)] (n = 1-2) complexes bearing biaryl phosphine ligands. <i>Inorganica Chimica Acta</i> , 2014, 422, 188-192.	1.2	30
25	New chemistry for enhanced carbon capture: beyond ammonium carbamates. <i>Chemical Science</i> , 2021, 12, 508-516.	3.7	26
26	A Structure-Activity Study of Aromatic Acid Modulators for the Synthesis of Zirconium-Based Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2022, 34, 3383-3394.	3.2	24
27	Carbon Dioxide Capture at Nucleophilic Hydroxide Sites in Oxidation-Resistant Cyclodextrin-Based Metal-Organic Frameworks**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
28	Biocompatible metal-organic frameworks for the storage and therapeutic delivery of hydrogen sulfide. <i>Chemical Science</i> , 2021, 12, 7848-7857.	3.7	21
29	Amine Dynamics in Diamine-Appended Mg <sub>2</sub> (dobpdc) Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7044-7049.	2.1	18
30	Overcoming Halide Inhibition of Suzuki-Miyaura Couplings with Biaryl Monophosphine-Based Catalysts. <i>Organic Process Research and Development</i> , 2019, 23, 1631-1637.	1.3	15
31	Fluoroarene Separations in Metal-Organic Frameworks with Two Proximal Mg <sup>2+</sup> Coordination Sites. <i>Journal of the American Chemical Society</i> , 2021, 143, 1948-1958.	6.6	15
32	Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones. <i>Chemistry of Materials</i> , 2021, 33, 8334-8342.	3.2	12
33	Investigation of ion-electrode interactions of linear polyimides and alkali metal ions for next generation alternative-ion batteries. <i>Chemical Science</i> , 2022, 13, 9191-9201.	3.7	11
34	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. <i>Advanced Materials</i> , 2019, 31, e1904252.	11.1	10
35	Defect formation and amorphization of Zn-MOF-74 crystals by post-synthetic interactions with bidentate adsorbates. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19698-19704.	5.2	9
36	Studies in selective 6-membered bromoether formation via bromonium and thiiranium-induced cyclizations. <i>Tetrahedron Letters</i> , 2015, 56, 3553-3556.	0.7	5

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37	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2020, 132, 19636-19645.	1.6	5
38	Evaluating solvothermal and mechanochemical routes towards the metal-organic framework Mg <sub>2</sub> (m-dobdc). <i>CrystEngComm</i> , 2022, 24, 7292-7297.	1.3	3
39	Processing-Structure-Performance Relationships of Microporous Metal-Organic Polymers for Size-Selective Separations. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3521-3527.	4.0	1
40	Carbon Dioxide Capture at Nucleophilic Hydroxide Sites in Oxidation-Resistant Cyclodextrin-Based Metal-Organic Frameworks**. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1