Phillip J Milner

List of Publications by Year
in descending order

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	A Structureâ€“Activity Study of Aromatic Acid Modulators for the Synthesis of Zirconium-Based Metalâ€“Organic Frameworks. Chemistry of Materials, 2022, 34, 3383-3394.	3.2	24
2	Carbon Dioxide Capture at Nucleophilic Hydroxide Sites in Oxidationâ€Resistant Cyclodextrinâ€Based Metalâ€“Organic Frameworks**. Angewandte Chemie, 2022, 134, .	1.6	1
3	Carbon Dioxide Capture at Nucleophilic Hydroxide Sites in Oxidationâ€Resistant Cyclodextrinâ€Based Metalâ€“Organic Frameworks**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	22
4	Investigation of ion-electrode interactions of linear polyimides and alkali metal ions for next generation alternative-ion batteries. Chemical Science, 2022, 13, 9191-9201.	3.7	11
5	Evaluating solvothermal and mechanochemical routes towards the metalâ€“organic framework Mg₂(m-dobdc). CrystEngComm, 2022, 24, 7292-7297.	1.3	3
6	New chemistry for enhanced carbon capture: beyond ammonium carbamates. Chemical Science, 2021, 12, 508-516.	3.7	26
7	Fluoroarene Separations in Metalâ€“Organic Frameworks with Two Proximal Mg²⁺ Coordination Sites. Journal of the American Chemical Society, 2021, 143, 1948-1958.	6.6	15
8	Processingâ€“Structureâ€“Performance Relationships of Microporous Metalâ€“Organic Polymers for Size-Selective Separations. ACS Applied Materials & Interfaces, 2021, 13, 3521-3527.	4.0	1
9	Evaluating the Robustness of Metalâ€“Organic Frameworks for Synthetic Chemistry. ACS Applied Materials & Interfaces, 2021, 13, 17517-17531.	4.0	35
10	Overcoming Metastable CO₂ Adsorption in a Bulky Diamine-Appended Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 15258-15270.	6.6	51
11	Defect formation and amorphization of Zn-MOF-74 crystals by post-synthetic interactions with bidentate adsorbates. Journal of Materials Chemistry A, 2021, 9, 19698-19704.	5.2	9
12	Biocompatible metalâ€“organic frameworks for the storage and therapeutic delivery of hydrogen sulfide. Chemical Science, 2021, 12, 7848-7857.	3.7	21
13	Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones. Chemistry of Materials, 2021, 33, 8334-8342.	3.2	12
14	Cooperative Carbon Dioxide Adsorption in Alcoholamineâ€•and Alkoxyalkylamineâ€Functionalized Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 19468-19477.	7.2	58
15	Cooperative carbon capture and steam regeneration with tetraamine-appended metalâ€“organic frameworks. Science, 2020, 369, 392-396.	6.0	249
16	Kinetics of cooperative CO₂ adsorption in diamine-appended variants of the metalâ€“organic framework Mg₂(dobpdc). Chemical Science, 2020, 11, 6457-6471.	3.7	34
17	Cooperative Carbon Dioxide Adsorption in Alcoholamineâ€•and Alkoxyalkylamineâ€Functionalized Metalâ€“Organic Frameworks. Angewandte Chemie, 2020, 132, 19636-19645.	1.6	5
18	Rapid mechanochemical synthesis of metalâ€“organic frameworks using exogenous organic base. Dalton Transactions, 2020, 49, 16238-16244.	1.6	52

#	Article	IF	Citations
19	Water Enables Efficient CO₂ Capture from Natural Gas Flue Emissions in an Oxidation-Resistant Diamine-Appended Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 13171-13186.	6.6	107
20	Overcoming Halide Inhibition of Suzukiâ€“Miyaura Couplings with Biaryl Monophosphine-Based Catalysts. Organic Process Research and Development, 2019, 23, 1631-1637.	1.3	15
21	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. Advanced Materials, 2019, 31, e1904252.	11.1	10
22	Challenges and opportunities for adsorption-based CO₂ capture from natural gas combined cycle emissions. Energy and Environmental Science, 2019, 12, 2161-2173.	15.6	119
23	Amine Dynamics in Diamine-Appended Mg₂(dobpdc) Metalâ€“Organic Frameworks. Journal of Physical Chemistry Letters, 2019, 10, 7044-7049.	2.1	18
24	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 3412-3422.	6.6	150
25	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metalâ€“Organic Framework Zn₂(dobpdc). Journal of the American Chemical Society, 2018, 140, 1663-1673.	6.6	64
26	Overcoming double-step CO₂ adsorption and minimizing water co-adsorption in bulky diamine-appended variants of Mg₂(dobpdc). Chemical Science, 2018, 9, 160-174.	3.7	88
27	Elucidating CO₂ Chemisorption in Diamine-Appended Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 18016-18031.	6.6	107
28	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 16000-16012.	6.6	82
29	A Diaminopropane-Appended Metalâ€“Organic Framework Enabling Efficient CO₂ Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. Journal of the American Chemical Society, 2017, 139, 13541-13553.	6.6	206
30	Controlling Cooperative CO₂ Adsorption in Diamine-Appended Mg₂(dobpdc) Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 10526-10538.	6.6	205
31	Pore Environment Effects on Catalytic Cyclohexane Oxidation in Expanded Fe₂(dobdc) Analogues. Journal of the American Chemical Society, 2016, 138, 14371-14379.	6.6	137
32	Studies in selective 6-membered bromoether formation via bromonium and thiiranium-induced cyclizations. Tetrahedron Letters, 2015, 56, 3553-3556.	0.7	5
33	Virtually Instantaneous, Room-Temperature [¹¹C]-Cyanation Using Biaryl Phosphine Pd(0) Complexes. Journal of the American Chemical Society, 2015, 137, 648-651.	6.6	68
34	In-Depth Assessment of the Palladium-Catalyzed Fluorination of Five-Membered Heteroaryl Bromides. Organometallics, 2015, 34, 4775-4780.	1.1	41
35	Studying Regioisomer Formation in the Pd-Catalyzed Fluorination of Aryl Triflates by Deuterium Labeling. Journal of the American Chemical Society, 2014, 136, 15757-15766.	6.6	48
36	Structure and reactivity of [(LÂ·Pd) n Â·(1,5-cyclooctadiene)] (n = 1â€“2) complexes bearing biaryl phosphine ligands. Inorganica Chimica Acta, 2014, 422, 188-192.	1.2	30

#	Article	IF	Citations
37	Pd-Catalyzed Nucleophilic Fluorination of Aryl Bromides. Journal of the American Chemical Society, 2014, 136, 3792-3795.	6.6	149
38	An Improved Catalyst System for the Pd-Catalyzed Fluorination of (Hetero)Aryl Triflates. Organic Letters, 2013, 15, 5602-5605.	2.4	124
39	Investigating the Dearomative Rearrangement of Biaryl Phosphine-Ligated Pd(II) Complexes. Journal of the American Chemical Society, 2012, 134, 19922-19934.	6.6	80
40	Evidence for in Situ Catalyst Modification during the Pd-Catalyzed Conversion of Aryl Triflates to Aryl Fluorides. Journal of the American Chemical Society, 2011, 133, 18106-18109.	6.6	142