

Jonathan E Bachman

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

2,747
citations

516710

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839539

18
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docs citations

20
times ranked

4301
citing authors

#	ARTICLE	IF	CITATIONS
1	A Single-Ion Conducting Borate Network Polymer as a Viable Quasi-Solid Electrolyte for Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e1905771.	21.0	121
2	Combined Nuclear Magnetic Resonance and Molecular Dynamics Study of Methane Adsorption in $M_2(dobdc)$ Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12286-12295.	3.1	18
3	Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4912-4916.	13.8	47
4	Increasing $M_2(dobdc)$ Loading in Selective Mixed-Matrix Membranes: A Rubber Toughening Approach. <i>Chemistry of Materials</i> , 2018, 30, 1484-1495.	6.7	41
5	Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations. <i>Angewandte Chemie</i> , 2018, 130, 5006-5010.	2.0	8
6	Engineered Transport in Microporous Materials and Membranes for Clean Energy Technologies. <i>Advanced Materials</i> , 2018, 30, 1704953.	21.0	85
7	Thumbnail: Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations (<i>Angew. Chem.</i> 18/2018). <i>Angewandte Chemie</i> , 2018, 130, 5274-5274.	2.0	0
8	On the direct synthesis of Cu(BDC) MOF nanosheets and their performance in mixed matrix membranes. <i>Journal of Membrane Science</i> , 2018, 549, 312-320.	8.2	116
9	Near-Perfect CO_2/CH_4 Selectivity Achieved through Reversible Guest Templating in the Flexible Metal-Organic Framework Co(bdp). <i>Journal of the American Chemical Society</i> , 2018, 140, 10324-10331.	13.7	136
10	Enabling alternative ethylene production through its selective adsorption in the metal-organic framework $Mn_2(m-dobdc)$. <i>Energy and Environmental Science</i> , 2018, 11, 2423-2431.	30.8	46
11	$M_2(m-dobdc)$ ($M = Mn, Fe, Co, Ni$) Metal-Organic Frameworks as Highly Selective, High-Capacity Adsorbents for Olefin/Paraffin Separations. <i>Journal of the American Chemical Society</i> , 2017, 139, 15363-15370.	13.7	178
12	Diamine-Appended $Mg_2(dobpdc)$ Nanorods as Phase-Change Fillers in Mixed-Matrix Membranes for Efficient CO_2/N_2 Separations. <i>Nano Letters</i> , 2017, 17, 6828-6832.	9.1	28
13	Enhanced ethylene separation and plasticization resistance in polymer membranes incorporating metal-organic framework nanocrystals. <i>Nature Materials</i> , 2016, 15, 845-849.	27.5	413
14	Plasticization-resistant $Ni_2(dobdc)$ /polyimide composite membranes for the removal of CO_2 from natural gas. <i>Energy and Environmental Science</i> , 2016, 9, 2031-2036.	30.8	89
15	Application of a High-Throughput Analyzer in Evaluating Solid Adsorbents for Post-Combustion Carbon Capture via Multicomponent Adsorption of CO_2 , N_2 , and H_2O . <i>Journal of the American Chemical Society</i> , 2015, 137, 4787-4803.	13.7	305
16	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	27.8	817
17	Investigation of the Redox Chemistry of Anthraquinone Derivatives Using Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8852-8860.	2.5	135
18	Fe Electron Transfer and Atom Exchange in Goethite: Influence of Al-Substitution and Anion Sorption. <i>Environmental Science & Technology</i> , 2012, 46, 10614-10623.	10.0	103

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19	Inhibition of Trace Element Release During Fe(II)-Activated Recrystallization of Al-, Cr-, and Sn-Substituted Goethite and Hematite. <i>Environmental Science & Technology</i> , 2012, 46, 10031-10039.	10.0	61