

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

16
h-index

839539

18
g-index

20
all docs

20
docs citations

20
times ranked

4301
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	27.8	817
2	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
3	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 ₂ O. <i>Journal of the American Chemical Society</i> , 2015, 137, 4787-4803.	13.7	305
4	M ₂ (<i>m</i> -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
5	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
6	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
7	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
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	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
10	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
11	Engineered Transport in Microporous Materials and Membranes for Clean Energy Technologies. <i>Advanced Materials</i> , 2018, 30, 1704953.	21.0	85
12	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
13	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
14	Enabling alternative ethylene production through its selective adsorption in the metal-organic framework Mn ₂ (<i>m</i> -dobdc). <i>Energy and Environmental Science</i> , 2018, 11, 2423-2431.	30.8	46
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Thumbnail: Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations (Angew. Chem. 18/2018). Angewandte Chemie, 2018, 130, 5274-5274.	2.0	0