

Ayalew H Assen

List of Publications by Year in descending order

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Version: 2024-02-01

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citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives in Adsorptive and Catalytic Mitigations of NO _x Using Metal-Organic Frameworks. <i>Energy & Fuels</i> , 2022, 36, 3347-3371.	5.1	13
2	Toward Net-Zero Emission Fertilizers Industry: Greenhouse Gas Emission Analyses and Decarbonization Solutions. <i>Energy & Fuels</i> , 2022, 36, 4198-4223.	5.1	27
3	Evaluating the High-Pressure Volumetric CH ₄ , H ₂ , and CO ₂ Storage Properties of Denser-Version Isostructural <i>MOF</i> -Metal-Organic Frameworks. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1732-1742.	1.9	8
4	The chemistry of metal-organic frameworks with face-centered cubic topology. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214644.	18.8	14
5	Water Vapor Adsorption by Porous Materials: From Chemistry to Practical Applications. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1617-1653.	1.9	18
6	Kinetic separation of C4 olefins using Y-fcu-MOF with ultra-fine-tuned aperture size. <i>Chemical Engineering Journal</i> , 2021, 413, 127388.	12.7	24
7	Advances on CO ₂ storage. Synthetic porous solids, mineralization and alternative solutions. <i>Chemical Engineering Journal</i> , 2021, 419, 129569.	12.7	43
8	Versatility vs stability. Are the assets of metal-organic frameworks deployable in aqueous acidic and basic media?. <i>Coordination Chemistry Reviews</i> , 2021, 443, 214020.	18.8	33
9	Enriching the Reticular Chemistry Repertoire with Minimal Edge-Transitive Related Nets: Access to Highly Coordinated Metal-Organic Frameworks Based on Double Six-Membered Rings as Net-Coded Building Units. <i>Journal of the American Chemical Society</i> , 2019, 141, 20480-20489.	13.7	42
10	Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. <i>Langmuir</i> , 2018, 34, 14546-14551.	3.5	43
11	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. <i>Journal of the American Chemical Society</i> , 2018, 140, 8858-8867.	13.7	129
12	Isorecticular rare earth fcu-MOFs for the selective removal of H ₂ S from CO ₂ containing gases. <i>Chemical Engineering Journal</i> , 2017, 324, 392-396.	12.7	98
13	Gas/vapour separation using ultra-microporous metal-organic frameworks: insights into the structure/separation relationship. <i>Chemical Society Reviews</i> , 2017, 46, 3402-3430.	38.1	1,033
14	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , 2017, 29, 1702953.	21.0	88
15	Metal-Organic Framework-Based Separators for Enhancing Li-S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017, 2, 2362-2367.	17.4	229
16	MOFs for the Sensitive Detection of Ammonia: Deployment of fcu-MOF Thin Films as Effective Chemical Capacitive Sensors. <i>ACS Sensors</i> , 2017, 2, 1294-1301.	7.8	220
17	H ₂ S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie</i> , 2016, 128, 16111-16115.	2.0	35
18	H ₂ S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode (<i>Angew. Chem.</i> 51/2016). <i>Angewandte Chemie</i> , 2016, 128, 16162-16162.	2.0	1

#	ARTICLE	IF	CITATIONS
19	H ₂ S Sensors: Fumarate-Based Cu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15879-15883.	13.8	213
20	Ultra-Tuning of the Rare-Earth Cu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14353-14358.	13.8	222