

Ayalew H Assen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11087055/publications.pdf>

Version: 2024-02-01

20
papers

2,534
citations

516710

16
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

3593
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14353-14358. | 13.8 | 222 |
| 4 | 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 |
| 5 | H ₂ S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15879-15883. | 13.8 | 213 |
| 6 | 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 |
| 7 | Isorectular 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Advances on CO ₂ storage. Synthetic porous solids, mineralization and alternative solutions. <i>Chemical Engineering Journal</i> , 2021, 419, 129569. | 12.7 | 43 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Toward Net-Zero Emission Fertilizers Industry: Greenhouse Gas Emission Analyses and Decarbonization Solutions. <i>Energy & Fuels</i> , 2022, 36, 4198-4223. | 5.1 | 27 |
| 15 | Kinetic separation of C ₄ olefins using Y-fum-fcu-MOF with ultra-fine-tuned aperture size. <i>Chemical Engineering Journal</i> , 2021, 413, 127388. | 12.7 | 24 |
| 16 | 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 |
| 17 | The chemistry of metal-organic frameworks with face-centered cubic topology. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214644. | 18.8 | 14 |
| 18 | Perspectives in Adsorptive and Catalytic Mitigations of NO _x Using Metal-Organic Frameworks. <i>Energy & Fuels</i> , 2022, 36, 3347-3371. | 5.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Evaluating the High-Pressure Volumetric CH ₄ , H ₂ , and CO ₂ Storage Properties of Denser-Version Isostructural zno -Metal-Organic Frameworks. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1732-1742. | 1.9 | 8 |
| 20 | Thumbnail: H ₂ S Sensors: Fumarate-Based zno -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 |