

Yangyang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

4,374
citations

279701

23
h-index

434063

31
g-index

32
all docs

32
docs citations

32
times ranked

5471
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical, thermal and mechanical stabilities of metal-organic frameworks. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	1,490
2	Instantaneous Hydrolysis of Nerve-Agent Simulants with a Six-Connected Zirconium-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6795-6799.	7.2	338
3	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2017, 346, 101-111.	9.5	275
4	Evaluation of Brønsted acidity and proton topology in Zr- and Hf-based metal-organic frameworks using potentiometric acid-base titration. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1479-1485.	5.2	259
5	Selective Photooxidation of a Mustard-Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9001-9005.	7.2	244
6	Dual-Function Metal-Organic Framework as a Versatile Catalyst for Detoxifying Chemical Warfare Agent Simulants. <i>ACS Nano</i> , 2015, 9, 12358-12364.	7.3	207
7	Probing the correlations between the defects in metal-organic frameworks and their catalytic activity by an epoxide ring-opening reaction. <i>Chemical Communications</i> , 2016, 52, 7806-7809.	2.2	177
8	Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a pyrene-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13809-13813.	5.2	147
9	Benchmark Study of Hydrogen Storage in Metal-Organic Frameworks under Temperature and Pressure Swing Conditions. <i>ACS Energy Letters</i> , 2018, 3, 748-754.	8.8	147
10	Surface-Specific Functionalization of Nanoscale Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14738-14742.	7.2	146
11	A historical perspective on porphyrin-based metal-organic frameworks and their applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213615.	9.5	140
12	Metal-organic frameworks for applications in remediation of oxyanion/cation-contaminated water. <i>CrystEngComm</i> , 2015, 17, 7245-7253.	1.3	133
13	Structural Transitions of the Metal-Oxide Nodes within Metal-Organic Frameworks: On the Local Structures of NU-1000 and UiO-66. <i>Journal of the American Chemical Society</i> , 2016, 138, 4178-4185.	6.6	108
14	Postsynthetic Incorporation of a Singlet Oxygen Photosensitizer in a Metal-Organic Framework for Fast and Selective Oxidative Detoxification of Sulfur Mustard. <i>Chemistry - A European Journal</i> , 2017, 23, 214-218.	1.7	98
15	Metal-Organic Framework Hybrid Materials and Their Applications. <i>Crystals</i> , 2018, 8, 325.	1.0	58
16	Paper-based microfluidic devices for glucose assays employing a metal-organic framework (MOF). <i>Analytica Chimica Acta</i> , 2019, 1055, 74-80.	2.6	42
17	Rapid, Biomimetic Degradation of a Nerve Agent Simulant by Incorporating Imidazole Bases into a Metal-Organic Framework. <i>ACS Catalysis</i> , 2021, 11, 1424-1429.	5.5	36
18	Detoxification of a Mustard-Gas Simulant by Nanosized Porphyrin-Based Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019, 2, 465-469.	2.4	32

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19	Mechanism-Guided Design of Metal-Organic Framework Composites for Selective Photooxidation of a Mustard Gas Simulant under Solvent-Free Conditions. <i>ACS Catalysis</i> , 2022, 12, 363-371.	5.5	30
20	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr ₆ nodes. <i>Catalysis Science and Technology</i> , 2016, 6, 6480-6484.	2.1	27
21	Determination of Singlet Oxygen Quantum Yield of a Porphyrinic Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7392-7400.	1.5	24
22	SALEing a MOF-Based Ship of Theseus. Sequential Building-Block Replacement for Complete Reformulation of a Pillared-Paddlewheel Metal-Organic Framework. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4345-4348.	1.0	21
23	Green synthesis of Zr-based metal-organic framework hydrogel composites and their enhanced adsorptive properties. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4813-4821.	3.0	18
24	Acidic Groups Functionalized Carbon Dots Capping Channels of a Proton Conductive Metal-Organic Framework by Coordination Bonds to Improve the Water-Retention Capacity and Boost Proton Conduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60084-60091.	4.0	18
25	Efficiently Boosting Moisture Retention Capacity of Porous Superprotonic Conducting MOF-802 at Ambient Humidity via Forming a Hydrogel Composite Strategy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37231-37238.	4.0	17
26	Facile Preparation of Hydrogen-Bonded Organic Framework/Cu ₂ O Heterostructure Films via Electrophoretic Deposition for Efficient CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21050-21058.	4.0	16
27	Thin Films of an Ultrastable Metal-Organic Framework for Formic Acid Sensing with High Selectivity and Excellent Reproducibility. , 2021, 3, 1746-1751.		13
28	Proton Conduction of an Acid-Resistant Open-Framework Chalcogenidometalate Hybrid in Anhydrous versus Humid Environments. <i>Inorganic Chemistry</i> , 2020, 59, 7283-7289.	1.9	12
29	Microwave-Assisted Rapid Synthesis of Nanoscale MOF-303 for Hydrogel Composites with Superior Proton Conduction at Ambient-Humidity Conditions. <i>ACS Applied Energy Materials</i> , 2021, 4, 14681-14688.	2.5	9
30	Chemistry of Singlet Oxygen with a Cadmium-Sulfur Cluster: Physical Quenching versus Photooxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 67-71.	6.6	6