

Yangyang Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

3,087
citations

20
h-index

32
g-index

32
ext. papers

3,729
ext. citations

12.2
avg, IF

5.49
L-index

#	Paper	IF	Citations
31	Chemical, thermal and mechanical stabilities of metal-organic frameworks. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	1026
30	Instantaneous hydrolysis of nerve-agent simulants with a six-connected zirconium-based metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6795-9	16.4	277
29	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2017 , 346, 101-111	23.2	206
28	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	13	194
27	Selective Photooxidation of a Mustard-Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9001-5	16.4	186
26	Dual-Function Metal-Organic Framework as a Versatile Catalyst for Detoxifying Chemical Warfare Agent Simulants. <i>ACS Nano</i> , 2015 , 9, 12358-64	16.7	176
25	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, 7806-9	5.8	138
24	Surface-Specific Functionalization of Nanoscale Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14738-42	16.4	113
23	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	13	109
22	Metal-organic frameworks for applications in remediation of oxyanion/cation-contaminated water. <i>CrystEngComm</i> , 2015 , 17, 7245-7253	3.3	105
21	Benchmark Study of Hydrogen Storage in Metal-Organic Frameworks under Temperature and Pressure Swing Conditions. <i>ACS Energy Letters</i> , 2018 , 3, 748-754	20.1	104
20	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, 4178-85	16.4	86
19	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	4.8	74
18	Selective Photooxidation of a Mustard-Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie</i> , 2015 , 127, 9129-9133	3.6	49
17	A historical perspective on porphyrin-based metal-organic frameworks and their applications. <i>Coordination Chemistry Reviews</i> , 2021 , 429,	23.2	43
16	Metal-Organic Framework Hybrid Materials and Their Applications. <i>Crystals</i> , 2018 , 8, 325	2.3	39
15	Paper-based microfluidic devices for glucose assays employing a metal-organic framework (MOF). <i>Analytica Chimica Acta</i> , 2019 , 1055, 74-80	6.6	26

14	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr6 nodes. <i>Catalysis Science and Technology</i> , 2016 , 6, 6480-6484	5.5	22
13	Detoxification of a Mustard-Gas Simulant by Nanosized Porphyrin-Based Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019 , 2, 465-469	5.6	22
12	Surface-Specific Functionalization of Nanoscale Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2015 , 127, 14951-14955	3.6	21
11	SALE-Ing 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	2.3	16
10	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	13.1	14
9	Proton Conduction of an Acid-Resistant Open-Framework Chalcogenidometalate Hybrid in Anhydrous versus Humid Environments. <i>Inorganic Chemistry</i> , 2020 , 59, 7283-7289	5.1	10
8	Determination of Singlet Oxygen Quantum Yield of a Porphyrinic Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7392-7400	3.8	8
7	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	9.5	5
6	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	16.4	5
5	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	13.1	4
4	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 ,	9.5	4
3	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> ,	6.1	1
2	Thin Films of an Ultrastable Metal-Organic Framework for Formic Acid Sensing with High Selectivity and Excellent Reproducibility 1746-1751		1
1	Green Synthesis of Zr-Based Metal-Organic Framework Hydrogel Composites and Their Enhanced Adsorptive Properties. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4813-4821	6.8	1