

Jian Liu

List of Publications by Year in descending order

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45
papers

3,067
citations

236925

25
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

4522
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in adsorption-based CO ₂ capture by metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012, 41, 2308-2322.	38.1	1,205
2	Metal-organic framework (MOF) materials as polymerization catalysts: a review and recent advances. <i>Chemical Communications</i> , 2020, 56, 10409-10418.	4.1	168
3	MOF-enabled confinement and related effects for chemical catalyst presentation and utilization. <i>Chemical Society Reviews</i> , 2022, 51, 1045-1097.	38.1	148
4	Fine-Tuning the Activity of Metal-Organic Framework-Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane. <i>Journal of the American Chemical Society</i> , 2017, 139, 15251-15258.	13.7	112
5	Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metal-Organic Frameworks for Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 8306-8314.	13.7	112
6	Node-Accessible Zirconium MOFs. <i>Journal of the American Chemical Society</i> , 2020, 142, 21110-21121.	13.7	103
7	Beyond the Active Site: Tuning the Activity and Selectivity of a Metal-Organic Framework-Supported Ni Catalyst for Ethylene Dimerization. <i>Journal of the American Chemical Society</i> , 2018, 140, 11174-11178.	13.7	94
8	Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. <i>Journal of the American Chemical Society</i> , 2020, 142, 18554-18564.	13.7	88
9	Introducing Nonstructural Ligands to Zirconia-like Metal-Organic Framework Nodes To Tune the Activity of Node-Supported Nickel Catalysts for Ethylene Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 3198-3207.	11.2	68
10	Electrospun metal-organic framework polymer composites for the catalytic degradation of methyl paraoxon. <i>New Journal of Chemistry</i> , 2017, 41, 8748-8753.	2.8	64
11	Metal-Organic Framework Supported Single Site Chromium(III) Catalyst for Ethylene Oligomerization at Low Pressure and Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2553-2557.	6.7	56
12	Effect of Redox -Non-Innocent- Linker on the Catalytic Activity of Copper-Catecholate-Decorated Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 635-641.	8.0	52
13	Vapor-phase polymerization of poly(3,4-ethylenedioxythiophene) (PEDOT) on commercial carbon coated aluminum foil as enhanced electrodes for supercapacitors. <i>Journal of Power Sources</i> , 2015, 297, 195-201.	7.8	51
14	Surfactant-Free Palladium Nanoparticles Encapsulated in ZIF-8 Hollow Nanospheres for Size-Selective Catalysis in Liquid-Phase Solution. <i>ChemCatChem</i> , 2016, 8, 3224-3228.	3.7	43
15	A Tunable Bimetallic MOF-74 for Adsorption Chiller Applications. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 885-889.	2.0	41
16	Influence of Ni/Mo ratio on the structure-performance of ordered mesoporous Ni-Mo-O catalysts for oxidative dehydrogenation of propane. <i>Catalysis Today</i> , 2020, 339, 67-78.	4.4	40
17	Insights into the Structure-Activity Relationships in Metal-Organic Framework-Supported Nickel Catalysts for Ethylene Hydrogenation. <i>ACS Catalysis</i> , 2020, 10, 8995-9005.	11.2	40
18	Metal-Organic-Framework-Supported and -Isolated Ceria Clusters with Mixed Oxidation States. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47822-47829.	8.0	39

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19	Size effect of the active sites in UiO-66-supported nickel catalysts synthesized via atomic layer deposition for ethylene hydrogenation. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 820-824.	6.0	38
20	Vapor-phase polymerized poly(3,4-ethylenedioxythiophene) (PEDOT)/TiO ₂ composite fibers as electrode materials for supercapacitors. <i>Electrochimica Acta</i> , 2017, 224, 133-141.	5.2	38
21	Ammonia Capture within Zirconium Metal-Organic Frameworks: Reversible and Irreversible Uptake. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20081-20093.	8.0	36
22	Photocatalytic activity of TiO ₂ polycrystalline sub-micron fibers with variable rutile fraction. <i>Applied Catalysis B: Environmental</i> , 2016, 187, 154-162.	20.2	32
23	Atomic layer deposition of molybdenum disulfide films using MoF ₆ and H ₂ S. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	2.1	29
24	Product Inhibition and the Catalytic Destruction of a Nerve Agent Simulant by Zirconium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30565-30575.	8.0	28
25	Toward Design Rules of Metal-Organic Frameworks for Adsorption Cooling: Effect of Topology on the Ethanol Working Capacity. <i>Chemistry of Materials</i> , 2019, 31, 2702-2706.	6.7	27
26	Zirconium Metal-Organic Frameworks Integrating Chloride Ions for Ammonia Capture and/or Chemical Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22485-22494.	8.0	27
27	Isomer of linker for NU-1000 yields a new <i>she</i> -type, catalytic, and hierarchically porous, Zr-based metal-organic framework. <i>Chemical Communications</i> , 2021, 57, 3571-3574.	4.1	25
28	Electroactive Ferrocene at or near the Surface of Metal-Organic Framework UiO-66. <i>Langmuir</i> , 2018, 34, 4707-4714.	3.5	23
29	Atomic layer deposition of Pt@CsH ₂ PO ₄ for the cathodes of solid acid fuel cells. <i>Electrochimica Acta</i> , 2018, 288, 12-19.	5.2	21
30	Precise Control of Cu Nanoparticle Size and Catalytic Activity through Pore Templating in Zr Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 3078-3086.	6.7	21
31	The Molecular Path Approaching the Active Site in Catalytic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 20090-20094.	13.7	21
32	Vapor phase polymerization and mechanical testing of highly electrically conductive poly(3,4-ethylenedioxythiophene) for flexible devices. <i>Synthetic Metals</i> , 2015, 209, 297-303.	3.9	20
33	Poly(3,4-ethylenedioxythiophene) (PEDOT) infused TiO ₂ nanofibers: the role of hole transport layer in photocatalytic degradation of phenazopyridine as a pharmaceutical contaminant. <i>RSC Advances</i> , 2016, 6, 113884-113892.	3.6	19
34	Metal Hydroxide/Polymer Textiles for Decontamination of Toxic Organophosphates: An Extensive Study of Wettability, Catalytic Activity, and the Effects of Aggregation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31378-31385.	8.0	19
35	The role of ruthenium photosensitizers in the degradation of phenazopyridine with TiO ₂ electrospun fibers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 46-53.	3.9	18
36	Two-Dimensional Pd Rafts Confined in Copper Nanosheets for Selective Semihydrogenation of Acetylene. <i>Nano Letters</i> , 2021, 21, 5620-5626.	9.1	18

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37	Effects of H ₂ annealing on polycrystalline copper substrates for graphene growth during low pressure chemical vapor deposition. <i>Materials Letters</i> , 2015, 153, 132-135.	2.6	17
38	Nickel-Carbon-Zirconium Material Derived from Nickel-Oxide Clusters Installed in a Metal-Organic Framework Scaffold by Atomic Layer Deposition. <i>Langmuir</i> , 2018, 34, 14143-14150.	3.5	16
39	Restricting Polyoxometalate Movement Within Metal-Organic Frameworks to Assess the Role of Residual Water in Catalytic Thioether Oxidation Using These Dynamic Composites. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	11
40	Thermal stability of ZnO nanoparticle bound organic chromophores. <i>Dyes and Pigments</i> , 2016, 131, 69-75.	3.7	10
41	Engineering Dendrimer-Templated, Metal-Organic Framework-Confined Zero-Valent, Transition-Metal Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36232-36239.	8.0	10
42	Highly-damped nanofiber mesh for ultrasensitive broadband acoustic flow detection. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 095003.	2.6	7
43	BODIPY-Based Polymers of Intrinsic Microporosity for the Photocatalytic Detoxification of a Chemical Threat. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12596-12605.	8.0	6
44	Carbon-efficient conversion of natural gas and natural-gas condensates to chemical products and intermediate feedstocks via catalytic metal-organic framework (MOF) chemistry. <i>Energy and Environmental Science</i> , 2022, 15, 2819-2842.	30.8	6
45	A novel approach to prepare hybrid AlPO ₄ /nano-carbon (graphite-like) (AlPO ₄ /NCG) material from layer-structured AlPO ₄ /Benzylamine. <i>Materials Letters</i> , 2010, 64, 905-907.	2.6	0