

Metal-Organic Framework-Based Catalysts with Sing

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Single-Atom Catalysts across the Periodic Table. <i>Chemical Reviews</i> , 2020, 120, 11703-11809.	23.0	690
2	Transforming Hydroxide-Containing Metal-Organic Framework Nodes for Transition Metal Catalysis. <i>Trends in Chemistry</i> , 2020, 2, 965-979.	4.4	14
3	Multiple catalytic sites in MOF-based hybrid catalysts for organic reactions. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 8508-8525.	1.5	11
4	Structure-dependent iron-based metal-organic frameworks for selective CO ₂ -to-CH ₄ photocatalytic reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25850-25856.	5.2	64
5	Enhanced Catalytic Performance of a Membrane Microreactor by Immobilizing ZIF-8-Derived Nano-Ag via Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19553-19563.	1.8	19
6	Node-Accessible Zirconium MOFs. <i>Journal of the American Chemical Society</i> , 2020, 142, 21110-21121.	6.6	103
7	General synthesis of single atom electrocatalysts via a facile condensation-carbonization process. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25959-25969.	5.2	14
8	Structure and Reactivity of Single-Site Vanadium Catalysts Supported on Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2020, 10, 10051-10059.	5.5	14
9	Mechanistic Insight into the Catalytic NO Oxidation by the MIL-100 MOF Platform: Toward the Prediction of More Efficient Catalysts. <i>ACS Catalysis</i> , 2020, 10, 9445-9450.	5.5	22
10	Design of Organic/Inorganic Hybrid Catalysts for Energy and Environmental Applications. <i>ACS Central Science</i> , 2020, 6, 1916-1937.	5.3	38
11	Single-Atom Catalysts Based on the Metal-Oxide Interaction. <i>Chemical Reviews</i> , 2020, 120, 11986-12043.	23.0	486
12	Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metal-Organic Framework. <i>Nanomaterials</i> , 2020, 10, 1698.	1.9	3
13	Robust Anionic Ln ^{III} -Organic Frameworks: Chemical Fixation of CO ₂ , Tunable Light Emission, and Fluorescence Recognition of Fe ³⁺ . <i>Inorganic Chemistry</i> , 2020, 59, 13407-13415.	1.9	25
14	Metal-organic frameworks as acid- and/or base-functionalized catalysts for tandem reactions. <i>Dalton Transactions</i> , 2020, 49, 14723-14730.	1.6	31
15	Synthesis and characterization of MOFs constructed from 5-(benzimidazole-1-yl)isophthalic acid and highly selective fluorescence detection of Fe(III) and Cr(VI) in water. <i>RSC Advances</i> , 2020, 10, 34943-34952.	1.7	2
16	Acid Catalysis in Confined Channels of Metal-Organic Frameworks: Boosting Orthoformate Hydrolysis in Basic Solutions. <i>Journal of the American Chemical Society</i> , 2020, 142, 14848-14853.	6.6	31
17	Adsorptive removal of hazardous organics from water and fuel with functionalized metal-organic frameworks: Contribution of functional groups. <i>Journal of Hazardous Materials</i> , 2021, 403, 123655.	6.5	109
18	Synthesis, structure and fluorescent sensing for nitrobenzene of a Zn-based MOF. <i>Journal of Molecular Structure</i> , 2021, 1223, 129217.	1.8	26

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19	Covalent organic framework-based materials for energy applications. <i>Energy and Environmental Science</i> , 2021, 14, 688-728.	15.6	209
20	Efficient single-atom Ni for catalytic transfer hydrogenation of furfural to furfuryl alcohol. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1110-1118.	5.2	102
21	Which is Better for Nanomedicines: Nanocatalysts or Single-Atom Catalysts?. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001897.	3.9	13
22	Anion-Dependent Catalytic C-C Bond Cleavage of a Lignin Model within a Cationic Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 688-695.	4.0	9
23	Chemistry and applications of s-block metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3828-3854.	5.2	31
24	Transition metal/carbon hybrids for oxygen electrocatalysis in rechargeable zinc-air batteries. <i>EcoMat</i> , 2021, 3, e12067.	6.8	48
25	Porous crystalline frameworks for thermocatalytic CO ₂ reduction: an emerging paradigm. <i>Energy and Environmental Science</i> , 2021, 14, 320-352.	15.6	61
26	Visible light initiated oxidative coupling of alcohols and <i>o</i> -phenylenediamines to synthesize benzimidazoles over MIL-101(Fe) promoted by plasmonic Au. <i>Green Chemistry</i> , 2021, 23, 4161-4169.	4.6	33
27	Polyoxometalate-based metal-organic frameworks for heterogeneous catalysis. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1865-1899.	3.0	90
28	Iron-based single-atom electrocatalysts: synthetic strategies and applications. <i>RSC Advances</i> , 2021, 11, 3079-3095.	1.7	27
29	Multi-Scale Design of Metal-Organic Framework-Derived Materials for Energy Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, 2003410.	10.2	81
30	Single-atom catalysis in advanced oxidation processes for environmental remediation. <i>Chemical Society Reviews</i> , 2021, 50, 5281-5322.	18.7	502
31	Pyrolysis-free polymer-based oxygen electrocatalysts. <i>Energy and Environmental Science</i> , 2021, 14, 2789-2808.	15.6	55
32	Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Synthesis and Microstructure Impacts. <i>ACS ES&T Engineering</i> , 2021, 1, 623-661.	3.7	61
33	Spontaneous Deracemizations. <i>Chemical Reviews</i> , 2021, 121, 2147-2229.	23.0	111
34	Metal-organic framework based catalytic nanoreactors: synthetic challenges and applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3986-4021.	3.2	14
35	pH response of a hydroxyl-functionalized luminescent metal-organic framework based phosphor. <i>New Journal of Chemistry</i> , 2021, 45, 9394-9402.	1.4	7
36	Metal-organic architectures designed from a triphenyl-pentacarboxylate linker: hydrothermal assembly, structural multiplicity, and catalytic Knoevenagel condensation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4209-4221.	3.0	11

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38	Theoretical evaluation of the performance of IRMOFs and M-MOF-74 in the formation of 5-fluorouracil@MOF. <i>RSC Advances</i> , 2021, 11, 31090-31097.	1.7	11
39	Metal-organic framework (MOF)-derived catalysts for chemoselective hydrogenation of nitroarenes. <i>New Journal of Chemistry</i> , 2021, 45, 18268-18276.	1.4	18
40	Recent progress in the design and synthesis of zeolite-like metal-organic frameworks (ZMOFs). <i>Dalton Transactions</i> , 2021, 50, 3450-3458.	1.6	8
41	Rational Construction of an Artificial Binuclear Copper Monooxygenase in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 1107-1118.	6.6	70
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43	Scalable and hierarchically designed MOF fabrics by netting MOFs into nanofiber networks for high-performance solar-driven water purification. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21005-21012.	5.2	15
44	Soluble porous carbon cage-encapsulated highly active metal nanoparticle catalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13670-13677.	5.2	13
45	Active metal single-sites based on metal-organic frameworks: construction and chemical prospects. <i>New Journal of Chemistry</i> , 2021, 45, 1137-1162.	1.4	8
46	Two-dimensional stable and ultrathin cluster-based metal-organic layers for efficient electrocatalytic water oxidation. <i>CrystEngComm</i> , 2021, 23, 4700-4707.	1.3	4
47	Theoretical Research on Catalytic Performance of TMNxCy Catalyst for Nitrogen Reduction in Actual Water Solvent. <i>Acta Chimica Sinica</i> , 2021, 79, 1138.	0.5	1
48	Advances in cellulose-metal organic framework composites: preparation and applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23353-23363.	5.2	49
49	2D metal-organic framework-based materials for electrocatalytic, photocatalytic and thermocatalytic applications. <i>Nanoscale</i> , 2021, 13, 3911-3936.	2.8	176
50	Boosted Catalytic Hydrogenation Performance Using Isolated Co Sites Anchored on Nitrogen-Incorporated Hollow Porous Carbon. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5088-5098.	1.5	18
51	Rational Fabrication of Low-Coordinate Single-Atom Ni Electrocatalysts by MOFs for Highly Selective CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7607-7611.	7.2	368
52	Rational Fabrication of Low-Coordinate Single-Atom Ni Electrocatalysts by MOFs for Highly Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021, 133, 7685-7689.	1.6	39
53	Single-Atom Catalysts Derived from Metal-Organic Frameworks for Electrochemical Applications. <i>Small</i> , 2021, 17, e2004809.	5.2	139
54	Bifunctional Metal-Organic Layer with Organic Dyes and Iron Centers for Synergistic Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 3075-3080.	6.6	60

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56	Macrocycles in Bioinspired Catalysis: From Molecules to Materials. <i>Frontiers in Chemistry</i> , 2021, 9, 635315.	1.8	8
57	Insights into the Structure–Activity Relationship in Aerobic Alcohol Oxidation over a Metal–Organic-Framework-Supported Molybdenum(VI) Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 4302-4310.	6.6	48
58	Atomically Dispersed Copper on N-Doped Carbon Nanosheets for Electrocatalytic Synthesis of Carbamates from CO ₂ as a C ₁ Source. <i>ChemSusChem</i> , 2021, 14, 2050-2055.	3.6	11
59	Selective Implantation of Diamines for Cooperative Catalysis in Isoreticular Heterometallic Titanium ^{IV} -Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 11975-11980.	1.6	1
60	Atomically Dispersed Vanadium Sites Anchored on N-Doped Porous Carbon for the Efficient Oxidative Coupling of Amines to Imines. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15168-15177.	4.0	25
61	Bimetallic NiCu Alloy Catalysts for Hydrogenation of Levulinic Acid. <i>ACS Applied Nano Materials</i> , 2021, 4, 3989-3997.	2.4	35
62	Au-Containing Coordination Polymers Based on Polyphosphorus Ligand Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 6027-6039.	1.9	7
63	Micro/Nano-Scaled Metal–Organic Frameworks and Their Derivatives for Energy Applications. <i>Advanced Energy Materials</i> , 2022, 12, 2003970.	10.2	64
64	A review of synthesis strategies for MOF-derived single atom catalysts. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1104-1116.	1.2	22
65	In Situ Growth of ZIF-8 Nanocrystals on the Pore Walls of 3D Ordered Macroporous TiO ₂ for a One-Pot Cascade Reaction. <i>Catalysts</i> , 2021, 11, 533.	1.6	6
66	MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. <i>Small</i> , 2021, 17, e2007113.	5.2	52
67	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 7104-7113.	6.6	198
68	Dimensional Reduction of Lewis Acidic Metal–Organic Frameworks for Multicomponent Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 8184-8192.	6.6	59
69	Two Co(II)-Based MOFs Constructed from Resorcin[4]Arene Ligand: Syntheses, Structures, and Heterogeneous Catalyst for Conversion of CO ₂ . <i>Crystals</i> , 2021, 11, 574.	1.0	2
70	Arsenic(III)-Capped 12-Tungsto-2-Arsenates(III) [M ₂ (As ^{III} W ₆ O ₂₅) ₂ (As ^{III} OH) _x] _n (M = Cr ^{III} , Fe ^{III} , Sc ^{III} , In ^{III} , Ti ^{IV}), Tj ETQq1 1 0.784314 rgBT / Overlock		
71	Role of Zr ₆ Metal Nodes in Zr-Based Metal–Organic Frameworks for Catalytic Detoxification of Pesticides. <i>Inorganic Chemistry</i> , 2021, 60, 10249-10256.	1.9	8
72	Turning metal-organic frameworks into efficient single-atom catalysts via pyrolysis with a focus on oxygen reduction reaction catalysts. <i>EnergyChem</i> , 2021, 3, 100056.	10.1	51

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73	Supported Single Atom Catalysts for C-H Activation: Selective C-H Oxidations, Dehydrogenations and Oxidative C-H/C-H Couplings. <i>ChemCatChem</i> , 2021, 13, 2751-2765.	1.8	15
74	Metal organic framework-derived Ni-Cu bimetallic electrocatalyst for efficient oxygen evolution reaction. <i>Journal of King Saud University - Science</i> , 2021, 33, 101379.	1.6	19
75	Metal substitution in the metalloporphyrin linker of metal-organic framework PCN-601 for photocatalytic CO ₂ reduction. <i>JPhys Energy</i> , 2021, 3, 034016.	2.3	5
76	Novel lignin-based single atom catalysts as peroxymonosulfate activator for pollutants degradation: Role of single cobalt and electron transfer pathway. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119910.	10.8	209
77	Ionic Liquid-Stabilized Single-Atom Rh Catalyst Against Leaching. <i>CCS Chemistry</i> , 2021, 3, 1814-1822.	4.6	30
78	Mechanically Constrained Catalytic Mn(CO) ₃ Br Single Sites in a Two-Dimensional Covalent Organic Framework for CO ₂ Electroreduction in H ₂ O. <i>ACS Catalysis</i> , 2021, 11, 7210-7222.	5.5	43
79	Asymmetric catalysis using metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021, 437, 213845.	9.5	80
80	A Practice of Reticular Chemistry: Construction of a Robust Mesoporous Palladium Metal-Organic Framework via Metal Metathesis. <i>Journal of the American Chemical Society</i> , 2021, 143, 9901-9911.	6.6	60
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82	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO ₂ Electroreduction to Ethylene. <i>Angewandte Chemie</i> , 2021, 133, 16823-16828.	1.6	10
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85	Using Postsynthetic X-Type Ligand Exchange to Enhance CO ₂ Adsorption in Metal-Organic Frameworks with Kuratowski-Type Building Units. <i>Inorganic Chemistry</i> , 2021, 60, 11784-11794.	1.9	11
86	Engineering the atomic interface of porous ceria nanorod with single palladium atoms for hydrodehalogenation reaction. <i>Nano Research</i> , 2022, 15, 1338-1346.	5.8	15
87	Metal/metal-organic framework interfacial ensemble-induced dual site catalysis towards hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119946.	10.8	39
88	Single-Atom Catalysts Designed and Prepared by the Atomic Layer Deposition Technique. <i>ACS Catalysis</i> , 2021, 11, 7018-7059.	5.5	106
89	The ligand effect resulted in different fluorescence responses of two similar zinc-based MOFs to high-valence metal ions and amino acids. <i>Microporous and Mesoporous Materials</i> , 2021, 321, 111130.	2.2	17
90	Bifunctional carbon-based cathode catalysts for zinc-air battery: A review. <i>Chinese Chemical Letters</i> , 2022, 33, 683-692.	4.8	45

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91	One-Step Synthesis of Ultrathin Carbon Nanoribbons from Metal-Organic Framework Nanorods for Oxygen Reduction and Zinc-Air Batteries. <i>CCS Chemistry</i> , 2022, 4, 194-204.	4.6	15
92	Integration of metal-organic frameworks and covalent organic frameworks: Design, synthesis, and applications. <i>Matter</i> , 2021, 4, 2230-2265.	5.0	158
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95	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 10977-10985.	6.6	66
96	Effect of Surfactants on the Corrosion and Wear Performance of Zinc-Epoxy Powder Composite Coatings. <i>International Journal of Electrochemical Science</i> , 0, , ArticleID:210753.	0.5	2
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98	Metal-bipyridine/phenanthroline-functionalized porous crystalline materials: Synthesis and catalysis. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213907.	9.5	21
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103	Octahedral to Tetrahedral Conversion upon a Ligand-Substitution-Induced Single-Crystal to Single-Crystal Transformation in a Rectangular Zn(II) Metal-Organic Framework and Its Photocatalysis. <i>Crystal Growth and Design</i> , 2021, 21, 5373-5382.	1.4	7
104	Atomically dispersed Fe atoms anchored on S and N-codoped carbon for efficient electrochemical denitrification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	49
105	Art of Architecture: Efficient Transport through Solvent-Filled Metal-Organic Frameworks Regulated by Topology. <i>Chemistry of Materials</i> , 2021, 33, 6832-6840.	3.2	12
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107	Advances and Prospects in Metal-Organic Frameworks as Key Nexus for Chemocatalytic Hydrogen Production. <i>Small</i> , 2021, 17, e2102201.	5.2	12
108	Metal-organic frameworks containing uncoordinated nitrogen: Preparation, modification, and application in adsorption. <i>Materials Today</i> , 2021, 51, 566-585.	8.3	50

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113	Electrospun graphene oxide/MIL-101(Fe)/poly(acrylonitrile-co-maleic acid) nanofiber: A high-efficient and reusable integrated photocatalytic adsorbents for removal of dye pollutant from water samples. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 196-205.	5.0	42
114	Facile, Low-Cost and Flexible Ammonia Sensor Arrays Based on Metallic Ion Charge Carriers and Polymer Matrices. <i>Advanced Materials Technologies</i> , 0, , 2100789.	3.0	1
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121	Inhibition by Water during Heterogeneous Brønsted Acid Catalysis by Three-Dimensional Crystalline Organic Salts. <i>Crystal Growth and Design</i> , 2021, 21, 6364-6372.	1.4	3
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124	Glucose Detection Devices and Methods Based on Metal-Organic Frameworks and Related Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2106023.	7.8	78
125	Two-dimensional materials for electrochromic applications. <i>EnergyChem</i> , 2021, 3, 100060.	10.1	21
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127	Zeolitic imidazolate frameworks (ZIFs) derived porous carbon: A review from crystal growth & green synthesis to oxygen reduction reaction activity. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33782-33800.	3.8	40
128	Single sites in heterogeneous catalysts: separating myth from reality. <i>Trends in Chemistry</i> , 2021, 3, 850-862.	4.4	23
129	Covalent organic framework-supported Zn single atom catalyst for highly efficient N-formylation of amines with CO ₂ under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120238.	10.8	43
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134	Gold nanodot assembly within a cobalt chalcogenide nanoshell: Promotion of electrocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 274-285.	5.0	5
135	Advanced electrocatalysts with Dual-metal doped carbon Materials: Achievements and challenges. <i>Chemical Engineering Journal</i> , 2022, 428, 132558.	6.6	28
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