

State of the Art and Prospects in Metal-Organic Framework Nanocatalysis

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Polymeric Nanocomposites of Metal-Organic Frameworks (MOFs). <i>Polymers</i> , 2019, 11, 1627.	2.0	22
2	An Asymmetric Supercapacitor Based on a Non-Calcined 3D Pillared Cobalt(II) Metal-Organic Framework with Long Cyclic Stability. <i>Inorganic Chemistry</i> , 2019, 58, 16100-16111.	1.9	111
3	On the potential for nanoscale metal-organic frameworks for energy applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21545-21576.	5.2	88
4	Creation and stabilisation of tuneable open metal sites in thiocyanato-bridged heterometallic coordination polymers to be used as heterogeneous catalysts. <i>Dalton Transactions</i> , 2019, 48, 17063-17069.	1.6	12
5	A dual factor activated metal-organic framework hybrid nanoplatform for photoacoustic imaging and synergetic photo-chemotherapy. <i>Nanoscale</i> , 2019, 11, 20630-20637.	2.8	39
6	Facile Preparation of Pd/Uio-66-v for the Conversion of Furfuryl Alcohol to Tetrahydrofurfuryl Alcohol under Mild Conditions in Water. <i>Nanomaterials</i> , 2019, 9, 1698.	1.9	14
7	One-pot synthesis of bimetallic metal-organic frameworks (MOFs) as acid-base bifunctional catalysts for tandem reaction. <i>Catalysis Science and Technology</i> , 2020, 10, 315-322.	2.1	50
8	Design and Functions of Macromolecular Electron-Reservoir Complexes and Devices. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 111-120.	1.9	4
9	Synthesis of micro/nanoscaled metal-organic frameworks and their direct electrochemical applications. <i>Chemical Society Reviews</i> , 2020, 49, 301-331.	18.7	685
10	Recent Advances in the Synthesis and Application of Polymer Compartments for Catalysis. <i>Polymers</i> , 2020, 12, 2190.	2.0	26
11	A Single-Source Precursor Route toward Small-Sized Nickel Particles Embedded into SiO ₂ Sheet as Magnetic Separable Catalyst. <i>ChemistrySelect</i> , 2020, 5, 11708-11712.	0.7	1
12	2D/3D coordination polymers based on di-, tri-, tetranuclear and polymeric chain units with a tricarboxylate ligand: Structures, magnetic and luminescent properties. <i>Inorganica Chimica Acta</i> , 2020, 513, 119944.	1.2	4
13	Mixed-Ligand Strategy for the Construction of Photochromic Metal-Organic Frameworks Driven by Electron-Transfer Between Nonphotoactive Units. <i>Crystal Growth and Design</i> , 2020, 20, 7350-7355.	1.4	103
14	Advanced transition metal/nitrogen/carbon-based electrocatalysts for fuel cell applications. <i>Science China Chemistry</i> , 2020, 63, 1517-1542.	4.2	56
15	Ionic liquid-mediated catalytic oxidation of Î²-caryophyllene by ultrathin 2D metal-organic framework nanosheets under 1 atm O ₂ . <i>Molecular Catalysis</i> , 2020, 496, 111196.	1.0	3
16	Single-molecule mapping of catalytic reactions on heterostructures. <i>Nano Today</i> , 2020, 34, 100957.	6.2	15
17	Hypoxia-responsive fluorescent nanoprobe for imaging and cancer therapy. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 131, 116010.	5.8	17
18	Spatial Confinement in Copper-Porphyrin Frameworks Enhances Carbon Dioxide Reduction to Hydrocarbons. <i>Cell Reports Physical Science</i> , 2020, 1, 100182.	2.8	27

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19	Theoretical Investigations on the Effect of the Functional Group of Pd@UiO-66 for Formic Acid Dehydrogenation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23738-23744.	1.5	6
20	Reticular Materials for Artificial Photoreduction of CO ₂ . <i>Advanced Energy Materials</i> , 2020, 10, 2002091.	10.2	92
21	PtNi bimetallic structure supported on UiO-67 metal-organic framework (MOF) during CO oxidation. <i>Journal of Catalysis</i> , 2020, 391, 522-529.	3.1	7
22	Role of the metal cation in the dehydration of the microporous metal-organic frameworks CPO-27-M. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110503.	2.2	14
23	Structural Dynamics and Adsorption Properties of the Breathing Microporous Aliphatic Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2020, 59, 15724-15732.	1.9	18
24	Double-shelled hollow bimetallic phosphide nanospheres anchored on nitrogen-doped graphene for boosting water electrolysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22222-22229.	5.2	51
25	Removal of inorganic arsenic from water using metal organic frameworks. <i>Journal of Environmental Sciences</i> , 2020, 97, 162-168.	3.2	14
26	Designing Magnetic NanoMOFs for Biomedicine: Current Trends and Applications. <i>Magnetochemistry</i> , 2020, 6, 39.	1.0	13
27	Coordination polymers as heterogeneous catalysts in hydrogen evolution and oxygen evolution reactions. <i>Chemical Communications</i> , 2020, 56, 10824-10842.	2.2	61
28	Reversible Color and Shape Changes of Nanostructured Fibers of a Macrocyclic π -Extended Thiophene Hexamer Promoted by Adsorption and Desorption of Organic Vapor. <i>Journal of the American Chemical Society</i> , 2020, 142, 13662-13666.	6.6	9
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30	Conductive Metal-Organic Frameworks: Design, Synthesis, and Applications. <i>Small Methods</i> , 2020, 4, 2000396.	4.6	92
31	Ni/carbon aerogels derived from water induced self-assembly of Ni-MOF for adsorption and catalytic conversion of oily wastewater. <i>Chemical Engineering Journal</i> , 2020, 402, 126205.	6.6	51
32	Energetic decomposition yields efficient bimetallic Cu MOF-derived catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15066-15073.	5.2	17
33	Construction of Flexible-on-Rigid Hybrid-Phase Metal-Organic Frameworks for Controllable Multi-Drug Delivery. <i>Angewandte Chemie</i> , 2020, 132, 18234-18242.	1.6	8
34	Removal of nitrogen-containing compounds from microalgae derived biofuel by adsorption over functionalized metal organic frameworks. <i>Fuel</i> , 2020, 280, 118622.	3.4	31
35	Copper and nickel immobilized on cytosine@MCM-41: as highly efficient, reusable and organic-inorganic hybrid nanocatalysts for the homoselective synthesis of tetrazoles and pyranopyrazoles. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5919.	1.7	52
36	Weak interactions in imidazole-containing zinc(II)-based metal-organic frameworks. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 2182-2188.	0.8	2

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37	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
38	Transition Metal and Metal-N Codoped MOF-Derived Fenton-Like Catalysts: A Comparative Study on Single Atoms and Nanoparticles. <i>Small</i> , 2020, 16, e2005060.	5.2	72
39	Metal-Organic Framework-Derived Fe-Doped Ni ₃ Fe/NiFe ₂ O ₄ Heteronanoparticle-Decorated Carbon Nanotube Network as a Highly Efficient and Durable Bifunctional Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55782-55794.	4.0	52
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43	Transition metal-based metal-organic frameworks for oxygen evolution reaction. <i>Coordination Chemistry Reviews</i> , 2020, 424, 213488.	9.5	137
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45	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
46	Functional metal-organic frameworks as effective sensors of gases and volatile compounds. <i>Chemical Society Reviews</i> , 2020, 49, 6364-6401.	18.7	784
47	Hierarchically macro-meso-microporous metal-organic framework for photocatalytic oxidation. <i>Chemical Communications</i> , 2020, 56, 10754-10757.	2.2	13
48	Two-dimensional Metal-Organic Frameworks as Electrocatalysts for Oxygen Evolution Reaction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 504-510.	1.3	22
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54	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020, 369, .	6.0	306

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56	Utilization of counter anions for charge transportation in the electrical device fabrication of Zn(ii) metal-organic frameworks. <i>Dalton Transactions</i> , 2020, 49, 17005-17016.	1.6	7
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58	Recent advances in catalytic and autocatalytic production of biomass-derived 5-hydroxymethylfurfural. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110317.	8.2	69
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66	Accelerated ageing reactions: towards simpler, solvent-free, low energy chemistry. <i>Green Chemistry</i> , 2020, 22, 5881-5901.	4.6	43
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74	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. <i>Journal of the American Chemical Society</i> , 2020, 142, 21428-21438.	6.6	95
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76	Application of MOF-based materials in electrochemical sensing. <i>Dalton Transactions</i> , 2020, 49, 17121-17129.	1.6	66
77	Hierarchically Nanoporous Titanium-Based Coordination Polymers for Photocatalytic Synthesis of Benzimidazole. <i>ACS Applied Nano Materials</i> , 2020, 3, 10720-10731.	2.4	8
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113	Fabricating Dual-Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. Angewandte Chemie, 2020, 132, 16147-16156.	1.6	19
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137	[M ₂ ($\frac{1}{4}$ -OH) ₂ (DHBQ) ₃] (M = Zr, Hf) - Two New Isostructural Coordination Polymers based on the Unique M ₂ O ₁₄ Inorganic Building Unit and 2,5-Dioxido- <i>p</i> -benzoquinone as Linker Molecule. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 436-441.	0.6	5
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140	Heterogeneous Fenton catalysts: A review of recent advances. <i>Journal of Hazardous Materials</i> , 2021, 404, 124082.	6.5	412
141	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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