

# Destruction of Metal-Organic Frameworks: Positive and Negative Stability

Chemical Reviews

120, 13087-13133

DOI: [10.1021/acs.chemrev.0c00722](https://doi.org/10.1021/acs.chemrev.0c00722)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Indium metal-organic frameworks based on pyridylcarboxylate ligands and their potential applications. Dalton Transactions, 2021, 50, 5713-5723.	1.6	9
2	Modulating the stacking modes of nanosized metal-organic frameworks by morphology engineering for isomer separation. Chemical Science, 2021, 12, 4104-4110.	3.7	17
3	Design strategies for improving the crystallinity of covalent organic frameworks and conjugated polymers: a review. Materials Horizons, 2022, 9, 121-146.	6.4	51
4	Visualizing the Conversion of Metal-Organic Framework Nanoparticles into Hollow Layered Double Hydroxide Nanocages. Journal of the American Chemical Society, 2021, 143, 1854-1862.	6.6	111
5	HKUST-1 MOF in reline deep eutectic solvent: synthesis and phase transformation. Dalton Transactions, 2021, 50, 4145-4151.	1.6	21
6	Capture of toxic gases in MOFs: SO <sub>2</sub> , H <sub>2</sub> S, NH <sub>3</sub> and NO <sub>x</sub> . Chemical Science, 2021, 12, 6772-6799.	3.7	79
7	H <sub>2</sub> S Stability of Metal-Organic Frameworks: A Computational Assessment. ACS Applied Materials & Interfaces, 2021, 13, 4813-4822.	4.0	6
8	Robust Heterometallic Co <sup>II</sup> La <sup>III</sup> <sub>2</sub> -Organic Framework for the Highly Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. Inorganic Chemistry, 2021, 60, 2878-2882.	1.9	23
9	Defective Hierarchical Pore Engineering of a Zn-Ni MOF by Labile Coordination Bonding Modulation. Inorganic Chemistry, 2021, 60, 5122-5130.	1.9	19
10	Molecular-Rotor-Driven Advanced Porous Materials. Angewandte Chemie - International Edition, 2021, 60, 16279-16292.	7.2	35
11	A Temporarily Pore-Openable Porous Coordination Polymer for Guest Adsorption/Desorption. Inorganic Chemistry, 2021, 60, 4531-4538.	1.9	10
12	Molecular-Rotor-Driven Advanced Porous Materials. Angewandte Chemie, 2021, 133, 16415-16428.	1.6	10
13	Controlled Metal Oxide and Porous Carbon Templatation Using Metal-Organic Frameworks. Crystal Growth and Design, 2021, 21, 4249-4258.	1.4	3
14	Viologen-Based Cationic Metal-Organic Framework for Efficient Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> Adsorption and Dye Separation. Inorganic Chemistry, 2021, 60, 5988-5995.	1.9	32
15	Evaluating the Robustness of Metal-Organic Frameworks for Synthetic Chemistry. ACS Applied Materials & Interfaces, 2021, 13, 17517-17531.	4.0	35
16	Synthesis and crystal structures of Zn(II) and Cd(II) coordination polymers derived from the flexible N-(4-carboxyphenyl)iminodiacetic acid and auxiliary ligands. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 319-325.	0.3	1
17	Structural changes of a NiFe-based metal-organic framework during the oxygen-evolution reaction under alkaline conditions. International Journal of Hydrogen Energy, 2021, 46, 19245-19253.	3.8	44
18	HOFs under light: Relevance to photon-based science and applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 47, 100418.	5.6	46

#	ARTICLE	IF	CITATIONS
19	Two nickel(II) complexes exhibiting "fused" 9-MC-3 and 12-MC-4 metallocrowns. <i>Transition Metal Chemistry</i> , 2021, 46, 503-508.	0.7	1
20	The Synthesis of Hexaazatrinaphthylene-Based 2D Conjugated Copper Metal-Organic Framework for Highly Selective and Stable Electroreduction of CO <sub>2</sub> to Methane. <i>Angewandte Chemie</i> , 2021, 133, 16545-16551.	1.6	13
21	Accelerating Fe(II)/Fe(I) cycle via Fe(I) substitution for enhancing Fenton-like performance of Fe-MOFs. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119859.	10.8	138
22	The Synthesis of Hexaazatrinaphthylene-Based 2D Conjugated Copper Metal-Organic Framework for Highly Selective and Stable Electroreduction of CO <sub>2</sub> to Methane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16409-16415.	7.2	87
23	SO <sub>2</sub> Capture Using Porous Organic Cages. <i>Angewandte Chemie</i> , 2021, 133, 17697-17704.	1.6	3
24	SO <sub>2</sub> Capture Using Porous Organic Cages. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17556-17563.	7.2	85
25	Ammonia Capture via an Unconventional Reversible Guest-Induced Metal-Linker Bond Dynamics in a Highly Stable Metal-Organic Framework. <i>Chemistry of Materials</i> , 2021, 33, 6186-6192.	3.2	26
26	An ultrathin amino-acid based copper(II) coordination polymer nanosheet for efficient epoxidation of l <sup>2</sup> -caryophyllene. <i>Molecular Catalysis</i> , 2021, 511, 111754.	1.0	0
27	Co-Heteroatom-Based MOFs for Bifunctional Electrocatalysts for Oxygen and Hydrogen Evolution Reactions. <i>Inorganic Chemistry</i> , 2021, 60, 13434-13439.	1.9	6
28	Water-Stable Two-Dimensional Metal-Organic Framework Nanostructures for Fe <sup>3+</sup> Ions Detection. <i>Crystal Growth and Design</i> , 2021, 21, 5275-5282.	1.4	16
29	Emerging porous framework material-based nanofluidic membranes toward ultimate ion separation. <i>Matter</i> , 2021, 4, 2810-2830.	5.0	27
30	C <sub>2</sub> s/C <sub>1</sub> hydrocarbon separation: The major step towards natural gas purification by metal-organic frameworks (MOFs). <i>Coordination Chemistry Reviews</i> , 2021, 442, 213998.	9.5	64
31	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
32	Anchoring Ag(I) into Nitro-Functionalized Metal-Organic Frameworks: Effectively Catalyzing Cycloaddition of CO <sub>2</sub> with Propargylic Alcohols under Mild Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 45558-45565.	4.0	29
33	Turning Flexibility into Rigidity: Stepwise Locking of Interpenetrating Networks in a MOF Crystal through Click Reaction. <i>Chemistry of Materials</i> , 2021, 33, 7509-7517.	3.2	13
34	Shining Light on Porous Liquids: From Fundamentals to Syntheses, Applications and Future Challenges. <i>Advanced Functional Materials</i> , 2022, 32, 2104162.	7.8	40
35	A metal-organic-framework incorporated vascular graft for sustained nitric oxide generation and long-term vascular patency. <i>Chemical Engineering Journal</i> , 2021, 421, 129577.	6.6	33
36	An updated status and trends in actinide metal-organic frameworks (An-MOFs): From synthesis to application. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214011.	9.5	93

#	ARTICLE	IF	CITATIONS
37	Iron-based metal-organic framework: Synthesis, structure and current technologies for water reclamation with deep insight into framework integrity. <i>Chemosphere</i> , 2021, 284, 131171.	4.2	83
38	Reversible switching of Cu-tetracarboxylic-based coordination polymers through in situ single-crystal-to-single-crystal structural transformation and their impact on carbon-based composite derivatives, fluorescence, and adsorption properties. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122589.	1.4	1
39	Environmental decomposition and remodeled phytotoxicity of framework-based nanomaterials. <i>Journal of Hazardous Materials</i> , 2022, 422, 126846.	6.5	18
40	Crystal transformation in Mn( <i>scp</i> ) metal-organic frameworks based on a one-dimensional chain precursor. <i>Dalton Transactions</i> , 2021, 50, 9540-9546.	1.6	6
41	A Triazole Functionalized <i>txt</i> -Type Metal-Organic Framework with High Performance for CH <sub>4</sub> Uptake and Selective CO <sub>2</sub> Adsorption. <i>Inorganic Chemistry</i> , 2021, 60, 15646-15652.	1.9	5
42	Unusual Metal-Organic Framework Topology and Radiation Resistance through Neptunyl Coordination Chemistry. <i>Journal of the American Chemical Society</i> , 2021, 143, 17354-17359.	6.6	16
43	The Synthesis and Properties of TIPA-Dominated Porous Metal-Organic Frameworks. <i>Nanomaterials</i> , 2021, 11, 2791.	1.9	3
44	Using Machine Learning and Data Mining to Leverage Community Knowledge for the Engineering of Stable Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 17535-17547.	6.6	71
45	Molecular Cleavage of Metal-Organic Frameworks and Application to Energy Storage and Conversion. <i>Advanced Materials</i> , 2021, 33, e2104341.	11.1	73
46	SBA15-supported nano-ruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow conditions. <i>Tetrahedron Letters</i> , 2021, 86, 153509.	0.7	3
47	A two-dimensional manganese coordination polymer: Crystal structure, proton conductivity and catalytic property. <i>Inorganica Chimica Acta</i> , 2022, 529, 120658.	1.2	1
48	Sulfonic and phosphonic porous solids as proton conductors. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214241.	9.5	63
49	Click Chemistry: Synthesis by Programmed Disassembly of Reticular Materials**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
50	Click Chemistry: Synthesis by Programmed Disassembly of Reticular Materials. <i>Angewandte Chemie</i> , 0, , .	1.6	0
51	Size-controlled, hollow and hierarchically porous Co <sub>2</sub> Ni <sub>2</sub> alloy nanocubes for efficient oxygen reduction in microbial fuel cells. <i>Reaction Chemistry and Engineering</i> , 0, , .	1.9	3
52	Viologen-Based Uranyl Coordination Polymers: Anion-Induced Structural Diversity and the Potential as a Fluorescent Probe. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 5077-5084.	1.0	8
53	Organophosphorus-Functionalized Zirconium-Based Metal-Organic Framework Nanostructures for Improved Mechanical and Flame Retardant Polymer Nanocomposites. <i>ACS Applied Nano Materials</i> , 2021, 4, 13027-13040.	2.4	21
54	Substituent Controlled Framework Transformation Based on Solvent-Assisted Linker Exchange. <i>Crystal Growth and Design</i> , 2022, 22, 37-42.	1.4	7

#	ARTICLE	IF	CITATIONS
55	Synthesis and Mechanical Properties of sub 5 $\mu$ m PolyUiO $\text{â€}66$ Thin Films on Gold Surfaces. ChemPhysChem, 2021, , .	1.0	1
56	Effective flocculation of harmful algae <i>Microcystis aeruginosa</i> by nanoscale metal $\text{â€}organic$ framework NH $\text{â€}2$ -MIL-101(Cr). Chemical Engineering Journal, 2022, 433, 134584.	6.6	17
57	Metal-hydrogen- $\pi$ -bonded organic frameworks. Dalton Transactions, 2022, 51, 1927-1935.	1.6	12
58	Metal $\text{â€}Organic$ Network-Forming Glasses. Chemical Reviews, 2022, 122, 4163-4203.	23.0	121
59	Avoiding Pyrolysis and Calcination: Advances in the Benign Routes Leading to MOF $\text{â€}Derived$ Electrocatalysts. ChemElectroChem, 2022, 9, .	1.7	12
60	Enhanced Biological Imaging via Aggregation-Induced Emission Active Porous Organic Cages. ACS Nano, 2022, 16, 2355-2368.	7.3	21
61	An efficient glucose sensor thermally calcined from copper-organic coordination cages. Talanta, 2022, 241, 123263.	2.9	14
62	The bulky Pd-PEPSSI-embedded conjugated microporous polymer-catalyzed Suzuki $\text{â€}Miyaura$ cross-coupling of aryl chlorides and arylboronic acids. Polymer Chemistry, 2022, 13, 1547-1558.	1.9	8
63	Amorphous metal $\text{â€}organic$ frameworks obtained from a crystalline precursor for the capture of iodine with high capacities. Chemical Communications, 2022, 58, 5013-5016.	2.2	22
64	Exchange of coordinated carboxylates with azolates as a route to obtain a microporous zinc $\text{â€}azolate$ framework. Chemical Communications, 2022, 58, 4028-4031.	2.2	2
65	Two bis-ligand-coordinated Zn( $\text{â€}scp$ $\text{â€}ii$ $\text{â€}scp$ $\text{â€}$ )-MOFs for luminescent sensing of ions, antibiotics and pesticides in aqueous solutions. RSC Advances, 2022, 12, 7780-7788.	1.7	15
66	Research Progresses of Metal-organic Framework HKUST-1-Based Membranes in Gas Separations $\text{â€}$ $\text{â€}$ . Acta Chimica Sinica, 2022, 80, 340.	0.5	6
67	Exploration of Hierarchical Metal $\text{â€}Organic$ Framework as Ultralight, High-Strength Mechanical Metamaterials. Journal of the American Chemical Society, 2022, 144, 4393-4402.	6.6	21
68	Amorphous Chromium Oxide with Hollow Morphology for Nitrogen Electrochemical Reduction under Ambient Conditions. ACS Applied Materials & Interfaces, 2022, 14, 14474-14481.	4.0	8
69	Further Insight into the Conversion of a Ni $\text{â€}Fe$ Metal $\text{â€}Organic$ Framework during Water-Oxidation Reaction. Inorganic Chemistry, 2022, 61, 5112-5123.	1.9	17
70	Smart Tetraphenylethene $\text{â€}Based$ Luminescent Metal $\text{â€}Organic$ Frameworks with Amide $\text{â€}Assisted$ Thermofluorochromics and Piezofluorochromics. Advanced Science, 2022, 9, e2200850.	5.6	31
71	From Hydrogen Bond to van der Waals Force: Molecular Scalpel Strategy to Exfoliate a Two-Dimensional Metal $\text{â€}Organic$ Nanosheet. Inorganic Chemistry, 2022, 61, 5465-5468.	1.9	0
72	Metal $\text{â€}Organic$ Framework $\text{â€}Based$ Nanoheater with Photo $\text{â€}Triggerred$ Cascade Effects for On $\text{â€}Demand$ Suppression of Cellular Thermoresistance and Synergistic Cancer Therapy. Advanced Healthcare Materials, 2022, 11, e2200004.	3.9	7

#	ARTICLE	IF	CITATIONS
73	Nanospace Engineering of Triazine <sup>2+</sup> Thiophene-Intertwined Porous-Organic-Polymers via Molecular Expansion in Tweaking CO <sub>2</sub> Capture. ACS Applied Nano Materials, 2022, 5, 5302-5315.	2.4	22
74	COF <sub>5</sub> /CoAl-LDH Nanocomposite Heterojunction for Enhanced Visible-Light-Driven CO <sub>2</sub> Reduction. ChemSusChem, 2022, 15, .	3.6	10
75	Design of High-Humidity-Proof Hierarchical Porous P-ZIF-67(Co)-Polymer Composite Materials by Surface Modification for Highly Efficient Volatile Organic Compound Adsorption. Industrial & Engineering Chemistry Research, 2022, 61, 3591-3600.	1.8	6
76	MOF Simplify, machine learning models with extracted stability data of three thousand metal-organic frameworks. Scientific Data, 2022, 9, 74.	2.4	34
77	A novel cubic Zn-citric acid-based MOF as a highly efficient and reusable catalyst for the synthesis of pyranopyrazoles and 5-substituted 1H-tetrazoles. Applied Organometallic Chemistry, 2022, 36, .	1.7	33
78	Modulation of Hierarchical Pores in Metal-Organic Frameworks for Improved Dye Adsorption and Electrocatalytic Performance. Inorganic Chemistry, 2022, 61, 5800-5812.	1.9	5
79	Bisligand-coordinated cadmium organic frameworks as fluorescent sensors to detect ions, antibiotics and pesticides in aqueous solutions. Polyhedron, 2022, 217, 115759.	1.0	16
80	A portable ascorbic acid in sweat analysis system based on highly crystalline conductive nickel-based metal-organic framework (Ni-MOF). Journal of Colloid and Interface Science, 2022, 616, 326-337.	5.0	24
81	Two new isotypic Co(II)/Ni(II)-coordination polymers based on 5-(6-Carboxypyridin-2-yl)isophthalic acid: Synthesis, structure analysis and magnetism properties. Journal of Molecular Structure, 2022, 1261, 132927.	1.8	1
82	Tuning three coordination polymers with dinuclear metal units via pH control: Syntheses, structures, and magnetic properties. Journal of Solid State Chemistry, 2022, , 123121.	1.4	0
83	Defects engineering simultaneously enhances activity and recyclability of MOFs in selective hydrogenation of biomass. Nature Communications, 2022, 13, 2068.	5.8	37
84	Photosensitized Peroxidase Mimicry at the Hierarchical OD/2D Heterojunction-Like Quasi Metal-Organic Framework Interface for Boosting Biocatalytic Disinfection. Small, 2022, 18, e2200178.	5.2	62
85	SO <sub>2</sub> capture in a chemical stable Al(III) MOF: DUT-4 as an effective adsorbent to clean CH <sub>4</sub> . Fuel, 2022, 322, 124213.	3.4	17
86	Toward real-world applications: promoting fast and efficient photoswitching in the solid state. Journal of Materials Chemistry C, 2022, 10, 13700-13716.	2.7	16
87	Low-temperature water-assisted crystallization approach to MOF@TiO <sub>2</sub> core-shell nanostructures for efficient dye removal. Inorganic Chemistry Frontiers, 2022, 9, 2725-2733.	3.0	5
88	Insights into the Solid-State Synthesis of Defect-Rich Zr-Uio-66. Inorganic Chemistry, 2022, 61, 6829-6836.	1.9	3
89	Induction of Chirality in Boron Imidazolate Frameworks: The Structure-Directing Effects of Substituents. Inorganic Chemistry, 2022, 61, 6861-6868.	1.9	5
90	Computational Identification and Experimental Demonstration of High-Performance Methane Sorbents. Angewandte Chemie - International Edition, 2022, 61, e202203575.	7.2	13

#	ARTICLE	IF	CITATIONS
91	Computational Identification and Experimental Demonstration of High-Performance Methane Sorbents. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
92	Stable Bimetallic Metal-Organic Framework with Dual-Functional Pyrazolate-Carboxylate Ligand: Rational Construction and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. , 2022, 4, 1032-1036.		15
93	Embedding [Mo <sub>3</sub> S <sub>13</sub> ]2 <sup>+</sup> clusters into the micropores of a covalent organic framework for enhanced stability and photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 446, 136883.	6.6	14
94	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. <i>Chemosphere</i> , 2022, 303, 134932.	4.2	32
95	Copper-based metal-organic frameworks for biomedical applications. <i>Advances in Colloid and Interface Science</i> , 2022, 305, 102686.	7.0	79
96	Engineering of catalytically active sites in photoactive metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2022, 465, 214561.	9.5	22
97	Atomically dispersed metal catalysts confined by covalent organic frameworks and their derivatives for electrochemical energy conversion and storage. <i>Coordination Chemistry Reviews</i> , 2022, 466, 214592.	9.5	16
98	In Situ Synthesis of MOF-74 Family for High Areal Energy Density of Aqueous Nickel-Zinc Batteries. <i>Advanced Materials</i> , 2022, 34, e2201779.	11.1	117
99	Rapid Fluorescent Determination of Hydrogen Peroxide in Serum by Europium-Metal Organic Framework Based Test Strips. <i>Analytical Letters</i> , 2022, 55, 2897-2911.	1.0	1
100	Light-driven molecular motors embedded in covalent organic frameworks. <i>Chemical Science</i> , 2022, 13, 8253-8264.	3.7	19
101	Fabricating defect-rich metal-organic frameworks via mixed-linker induced crystal transformation. <i>Chemical Communications</i> , 0, , .	2.2	3
102	Novel Colorimetric Aptasensor Based on Mof-Derived Materials and its Applications for Organophosphorus Pesticides Determination. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
103	Metal-organic framework-derived Co nanoparticles and single atoms as efficient electrocatalyst for pH universal hydrogen evolution reaction. <i>Nano Research</i> , 2022, 15, 7917-7924.	5.8	12
104	A neutral zinc(II) metal-organic framework with nanoporous channels for efficient and selective absorption of anionic dyes. <i>Journal of Molecular Structure</i> , 2022, 1265, 133413.	1.8	2
105	Hydrogen sulfide capture and removal technologies: A comprehensive review of recent developments and emerging trends. <i>Separation and Purification Technology</i> , 2022, 298, 121448.	3.9	70
106	Understanding the Structural Collapse during Activation of Metal-Organic Frameworks with Copper Paddlewheels. <i>Inorganic Chemistry</i> , 2022, 61, 9702-9709.	1.9	2
107	Pd and Ni NPs@Eu-MOF, an economically advantageous nanocatalyst for C(sp <sup>2</sup> )-C(sp <sup>2</sup> ) cross-coupling reactions. Key role of Ni and of the metal nanoparticles. <i>Polyhedron</i> , 2022, 223, 115950.	1.0	3
108	Preparation of an interpenetrating bimetal metal-organic framework <i>via</i> metal metathesis used for promoting gas adsorption. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 5434-5443.	3.0	3

#	ARTICLE	IF	CITATIONS
109	Transformation of metal-organic frameworks with retained networks. <i>Chemical Communications</i> , 2022, 58, 8602-8613.	2.2	11
110	Fluorescence analysis for characterizing the alkali stability of metal-organic frameworks: an informative complement to X-ray diffraction. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4394-4401.	3.0	2
111	Lanthanide Metal-Organic Frameworks with High Chemical Stability as Multifunctional Materials: Cryogenic Magnetic Cooler and Luminescent Probe. <i>Crystal Growth and Design</i> , 2022, 22, 4917-4925.	1.4	6
112	Tailored Inorganic-Organic Architectures via Metalloligands. <i>Chemical Record</i> , 0, , .	2.9	1
113	Tailoring Coordination Microenvironment of Cu(I) in Metal-Organic Frameworks for Enhancing Electroreduction of CO <sub>2</sub> to CH <sub>4</sub> . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	42
114	Low-dimensional assemblies of metal-organic framework particles and mutually coordinated anisotropy. <i>Nature Communications</i> , 2022, 13, .	5.8	36
115	Pentagonal 2D Transition Metal Dichalcogenides: PdSe <sub>2</sub> and Beyond. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
116	Highly Efficient and Direct Ultralong All-Phosphorescence from Metal-Organic Framework Photonic Glasses. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	66
117	Highly Efficient and Direct Ultralong All-Phosphorescence from Metal-Organic Framework Photonic Glasses. <i>Angewandte Chemie</i> , 0, , .	1.6	4
118	Construction of hierarchically porous metal-organic framework particle by a facile MOF-template strategy. <i>Particuology</i> , 2023, 74, 9-17.	2.0	5
119	The chemical stability of metal-organic frameworks in water treatments: Fundamentals, effect of water matrix and judging methods. <i>Chemical Engineering Journal</i> , 2022, 450, 138215.	6.6	39
120	A boric acid functional multi-emission metal organic frameworks-based fluorescence sensing platform for visualization of gallic acid. <i>Chemical Engineering Journal</i> , 2022, 450, 138283.	6.6	22
121	Metal-organic framework (MOF)-, covalent-organic framework (COF)-, and porous-organic polymers (POP)-catalyzed selective C-H bond activation and functionalization reactions. <i>Chemical Society Reviews</i> , 2022, 51, 7810-7882.	18.7	80
122	PO <sub>4</sub> <sup>3-</sup> -Loaded ZIF-8-type Metal-Organic Framework-Decorated Multiwalled Carbon Nanotube Synthesis and Application in Silane Coatings for Achieving a Smart Corrosion Protection Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 11747-11765.	1.8	9
123	Metal-Organic Frameworks for CO <sub>2</sub> Separation from Flue and Biogas Mixtures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	46
124	Recent advances in nanoarchitectures of monocrystalline coordination polymers through confined assembly. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 763-777.	1.5	1
125	High selectivity of photocatalytic reduction of CO <sub>2</sub> to CO based on terpyridine ligand supported CuI metal organic framework. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	3
126	Comparative Effect of Amino Functionality on the Performance of Isostructural Mixed-Ligand MOFs towards Multifunctional Catalytic Application. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	1



#	ARTICLE	IF	CITATIONS
127	Novel colorimetric aptasensor based on MOF-derived materials and its applications for organophosphorus pesticides determination. <i>Journal of Hazardous Materials</i> , 2022, 440, 129707.	6.5	45
128	Treatment Activity of Ho(III)-Based Coordination Polymer on Liver Cancer by the Inhibition of Vascular Endothelial Growth Factor Signaling Pathway Activity. <i>Journal of Biomaterials and Tissue Engineering</i> , 2022, 12, 1988-1993.	0.0	0
129	Enhanced Mechanical Stability and Proton Conductivity Performance from the Dense Mn(II)-Metal-Organic Framework to Porous Mn(II)-Fe(III)-Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2022, 61, 15166-15174.	1.9	4
130	Controlling dynamics in extended molecular frameworks. <i>Nature Reviews Chemistry</i> , 2022, 6, 705-725.	13.8	24
131	A new nitrogen rich porous organic polymer for ultra-high CO <sub>2</sub> uptake and as an excellent organocatalyst for CO <sub>2</sub> fixation reactions. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 65, 102236.	3.3	25
132	The Role of NMR in Metal Organic Frameworks: Deep Insights into Dynamics, Structure and Mapping of Functional Groups. <i>Materials Today Advances</i> , 2022, 16, 100287.	2.5	5
133	Lanthanoid hydrogen-bonded organic frameworks: Enhancement of luminescence by the coordination-promoted antenna effect and applications in heavy-metal ion sensing and sterilization. <i>Chemical Engineering Journal</i> , 2023, 451, 138880.	6.6	19
134	In-Situ Etching Mof Nanoparticles for Constructing Defects-Free Interface in Hybrid Membranes for Gas Separation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
135	Synthesis and structural characterization of metal azolate/carboxylate frameworks incorporating the 1-H-pyrazol-3,4,5-tricarboxylate ligand. <i>Inorganica Chimica Acta</i> , 2022, , 121236.	1.2	0
136	Mechano-thermochemical synthesis of rare-earth metal-organic frameworks with solvent-free coordination for visible and near-infrared emission. <i>Materials Chemistry Frontiers</i> , 2022, 6, 3504-3511.	3.2	2
137	Mapping short-range order at the nanoscale in metal-organic framework and inorganic glass composites. <i>Nanoscale</i> , 2022, 14, 16524-16535.	2.8	4
138	Thermally responsive morphological changes of layered coordination polymers induced by disordering/ordering of flexible alkyl chains. <i>Dalton Transactions</i> , 2022, 51, 17967-17972.	1.6	0
139	Two Co(II)-Metal Organic Frameworks (MOFs): Therapeutic Effect and Mechanism on Radiation Pneumonitis by Inhibiting the Excessive Inflammatory Response of Epithelial Cells. <i>Science of Advanced Materials</i> , 2022, 14, 934-942.	0.1	2
140	Switchable Ion Current Saturation Regimes Enabled via Heterostructured Nanofluidic Devices Based on Metal-Organic Frameworks. <i>Advanced Materials</i> , 2022, 34, .	11.1	13
141	Novel strategies to tailor the photocatalytic activity of metal-organic frameworks for hydrogen generation: a mini-review. <i>Frontiers in Energy</i> , 2022, 16, 734-746.	1.2	3
142	Synthesis and catalytic performance of banana cellulose nanofibres grafted with poly( $\mu$ -caprolactone) in a novel two-dimensional zinc(II) metal-organic framework. <i>International Journal of Biological Macromolecules</i> , 2023, 224, 568-577.	3.6	8
143	Regulating the Porosity and Iodine Adsorption Properties of Metal-Organic Framework Glass via an Ammonia-Immersion Approach. <i>Inorganic Chemistry</i> , 2022, 61, 16981-16985.	1.9	7
144	The Dynamic Formation from Metal-Organic Frameworks of High-Density Platinum Single-Atom Catalysts with Metal-Metal Interactions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	29

#	ARTICLE	IF	CITATIONS
145	A Multifunctional Cobalt(II) Metal-Organic Framework with Nanoporous Channels for Gas and Dye Absorption, and Magnetic Performance. <i>Chemical Research in Chinese Universities</i> , 0, , .	1.3	1
146	The Dynamic Formation from Metal-Organic Frameworks of High-Density Platinum Single-Atom Catalysts with Metal-Metal Interactions. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
147	Engineering Polymeric Nanofluidic Membranes for Efficient Ionic Transport: Biomimetic Design, Material Construction, and Advanced Functionalities. <i>ACS Nano</i> , 2022, 16, 17613-17640.	7.3	15
148	Superior Metal-Organic Framework Activation with Dimethyl Ether. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	3
149	Palladium Nanoparticles Entrapped In a Hydrogen Bonded Crystalline Organic Salt Matrix as a Selective Heterogeneous Reduction Catalyst. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0
150	Superior Metal-Organic Framework Activation with Dimethyl Ether. <i>Angewandte Chemie</i> , 0, , .	1.6	0
151	Metal-organic frameworks for advanced aqueous ion batteries and supercapacitors. <i>EnergyChem</i> , 2022, 4, 100090.	10.1	22
152	Selective and moisture-sensitive degradation of bromocresol green for isostructural MOFs assembled with D-camphorate and bipyridine. <i>Inorganic Chemistry Communication</i> , 2022, 146, 110044.	1.8	0
153	Two bis-color excited luminescent sensors of two-dimensional Cd(II)-MOFs bearing mixed ligands for detection of ions and pesticides in aqueous solutions. <i>Journal of Molecular Structure</i> , 2023, 1273, 134310.	1.8	10
154	In-situ etching MOF nanoparticles for constructing enhanced interface in hybrid membranes for gas separation. <i>Journal of Membrane Science</i> , 2023, 666, 121146.	4.1	12
155	In-situ growth of ZIF-8 nanocrystals on biochar for boron adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 657, 130504.	2.3	9
156	Nanoporous Ethylenediamine-Functionalized Metal-Organic Framework MIL-101 for the Removal of Proteins and Antipsychotic Drugs from Serum Samples. <i>ACS Applied Nano Materials</i> , 2022, 5, 17325-17334.	2.4	4
157	In Situ Synthesis of Hierarchical Porous Zr-MOFs on Columnar Activated Carbon and Application in Toxic Gas Adsorption. <i>Inorganic Chemistry</i> , 2022, 61, 18355-18364.	1.9	1
158	Carbon Capture Beyond Amines: CO <sub>2</sub> Sorption at Nucleophilic Oxygen Sites in Materials. <i>ChemNanoMat</i> , 2023, 9, .	1.5	1
159	Lanthanide(III)-Modified MIL-125(Ti-Ln) (Ln = Eu or Tb) for the Detection of Cu(II) and Fe(III) Ions. <i>Crystal Growth and Design</i> , 2022, 22, 6960-6966.	1.4	3
160	Roadmap of amorphous metal-organic framework for electrochemical energy conversion and storage. <i>Nano Research</i> , 2023, 16, 4107-4118.	5.8	10
161	Advances in photocatalytic reduction of hexavalent chromium: From fundamental concepts to materials design and technology challenges. <i>Journal of Water Process Engineering</i> , 2022, 50, 103301.	2.6	20
162	Direct Visualization of Atomic Structure in Multivariate Metal-Organic Frameworks (MOFs) for Guiding Electrocatalysts Design. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	13

#	ARTICLE	IF	CITATIONS
163	Direct Visualization of Atomic Structure in Multivariate Metal-Organic Frameworks (MOFs) for Guiding Electrocatalysts Design. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	7
164	Synthesis, crystal structure of four 1D to 3D coordination polymers as potential sensor for the detection of ions, antibiotics and pesticides in water media. <i>Polyhedron</i> , 2023, 230, 116242.	1.0	10
165	Equipping carbon dots in a defect-containing MOF via self-carbonization for explosive sensing. <i>Journal of Materials Chemistry C</i> , 2022, 11, 321-328.	2.7	8
166	The NH <sub>2</sub> -UiO-66/3,4,9,10-perylenetetracarboxylicdiimide for Cr(VI) reduction: DFT calculation, performance, and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109205.	3.3	2
167	Synthesis of porphyrin porous organic polymers and their application of water pollution treatment: A review. <i>Environmental Technology and Innovation</i> , 2023, 29, 102972.	3.0	22
168	SYNTHESIS AND CRYSTAL STRUCTURE OF ONE-DIMENSIONAL COORDINATION POLYMERS BASED ON LANTHANIDE COMPLEXES AND CUCURBIT[6]URIL. <i>Journal of Structural Chemistry</i> , 2022, 63, 1770-1778.	0.3	2
169	A State-of-the-Art of Metal-Organic Frameworks for Chromium Photoreduction vs. Photocatalytic Water Remediation. <i>Nanomaterials</i> , 2022, 12, 4263.	1.9	4
170	Surface-Clean Au <sub>25</sub> Nanoclusters in Modulated Microenvironment Enabled by Metal-Organic Frameworks for Enhanced Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 22008-22017.	6.6	50
171	Enhanced Activity of Enzyme Immobilized on Hydrophobic ZIF-8 Modified by Ni <sup>2+</sup> Ions. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
172	Optimizing Acetylene Sorption through Induced-fit Transformations in a Chemically Stable Microporous Framework. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	12
173	Acid-Resistant Mesoporous Metal-Organic Frameworks as Carriers for Targeted Hypoglycemic Peptide Delivery: Peptide Encapsulation, Release, and Bioactivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 55447-55457.	4.0	2
174	Enhanced Activity of Enzyme Immobilized on Hydrophobic ZIF-8 Modified by Ni <sup>2+</sup> Ions. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	28
175	Insights into the Effect of Catalytic Intratumoral Lactate Depletion on Metabolic Reprogramming and Immune Activation for Antitumoral Activity. <i>Advanced Science</i> , 2023, 10, .	5.6	17
176	Optimizing Acetylene Sorption through Induced-fit Transformations in a Chemically Stable Microporous Framework. <i>Angewandte Chemie</i> , 0, , .	1.6	0
177	ZIF-8 integrated with polydopamine coating as a novel nano-platform for skin-specific drug delivery. <i>Journal of Materials Chemistry B</i> , 2023, 11, 1782-1797.	2.9	4
178	Metal Organic Polygons and Polyhedra: Instabilities and Remedies. <i>Inorganics</i> , 2023, 11, 36.	1.2	1
179	Principles of Design and Synthesis of Metal Derivatives from MOFs. <i>Advanced Materials</i> , 2023, 35, .	11.1	24
180	Unleashing the catalytic potency of nanoporous copper oxide particles derived from copper 5-nitroisophthalate MOF towards the multicomponent synthesis of 2,3-dihydroquinazolinones. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 661, 130847.	2.3	0

#	ARTICLE	IF	CITATIONS
181	Determination of trace bisphenols in milk based on Fe <sub>3</sub> O <sub>4</sub> @NH <sub>2</sub> -MIL-88(Fe)@TpPa magnetic solid-phase extraction coupled with HPLC. <i>Talanta</i> , 2023, 256, 124268.	2.9	20
182	Largely Entangled Diamondoid Framework with High-Density Urea and Divergent Metal Nodes for Selective Scavenging of CO <sub>2</sub> and Molecular Dimension-Mediated Size-Exclusive H-Bond Donor Catalysis. <i>Inorganic Chemistry</i> , 2023, 62, 871-884.	1.9	9
183	An investigation on the influence of highly acidic media on the microstructural stability and dye adsorption performance of UiO-66. <i>Applied Surface Science</i> , 2023, 618, 156531.	3.1	32
184	Hybrid nanoarrays of Cu-MOFs@H-substituted graphdiyne with various levels of Lewis acidity for nitrate electroreduction. <i>Chemical Communications</i> , 2023, 59, 4348-4351.	2.2	3
185	Insight into the surface-reconstruction of metal-organic framework-based nanomaterials for the electrocatalytic oxygen evolution reaction. <i>Coordination Chemistry Reviews</i> , 2023, 484, 215117.	9.5	7
186	Recent advances in thermocatalytic hydrogenation of unsaturated organic compounds with Metal-Organic Frameworks-based materials: Construction strategies and related mechanisms. <i>Coordination Chemistry Reviews</i> , 2023, 487, 215159.	9.5	11
187	Carbon Dots Based Photoinduced Reactions: Advances and Perspective. <i>Advanced Science</i> , 2023, 10, .	5.6	20
188	Graphene oxide assisted assembly of superhydrophilic MOF-based membrane with 2D/3D hybrid nanochannels for enhanced water purification. <i>Chemical Engineering Journal</i> , 2023, 460, 141694.	6.6	14
189	A Wide-Temperature Adaptive Aqueous Zinc-Air Battery Based on Cu-Co Dual Metal-Nitrogen-Carbon/Nanoparticle Electrocatalysts. <i>Small Structures</i> , 2023, 4, .	6.9	13
190	Evaluation of an Imine-Linked Polymer Organic Framework for Storage and Release of H <sub>2</sub> S and NO. <i>Materials</i> , 2023, 16, 1655.	1.3	3
191	A Robust Metal-Organic Framework with Scalable Synthesis and Optimal Adsorption and Desorption for Energy-Efficient Ethylene Purification. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
192	A Robust Metal-Organic Framework with Scalable Synthesis and Optimal Adsorption and Desorption for Energy-Efficient Ethylene Purification. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	13
193	Pulmonary Delivery of Recombinant Human Bleomycin Hydrolase Using Mannose-Modified Hierarchically Porous UiO-66 for Preventing Bleomycin-Induced Pulmonary Fibrosis. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 11520-11535.	4.0	0
194	Ionothermal Synthesis of Metal-Organic Frameworks Using Low-Melting Metal Salt Precursors**. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	5
195	Ionothermal Synthesis of Metal-Organic Frameworks Using Low-Melting Metal Salt Precursors**. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
196	Coupling Hydrazine Oxidation with Seawater Electrolysis for Energy-Saving Hydrogen Production over Bifunctional CoNC Nanoarray Electrocatalysts. <i>Small</i> , 2023, 19, .	5.2	20
197	Direct synthesis of amorphous coordination polymers and metal-organic frameworks. <i>Nature Reviews Chemistry</i> , 2023, 7, 273-286.	13.8	40
198	Sequential Assembly and Stabilization of Cu <sub>6</sub> S <sub>6</sub> Octahedral Clusters in NaCl-, NiAs-, and CdI <sub>2</sub> -Related Structures and Their Utility toward Thermochromism and Multicomponent Hantzsch Reaction. <i>Inorganic Chemistry</i> , 2023, 62, 4417-4434.	1.9	2

#	ARTICLE	IF	CITATIONS
199	Metal-Organic Frameworks as Sensors for Human Amyloid Diseases. ACS Sensors, 2023, 8, 1033-1053.	4.0	14
200	Controlled synthesis of MOF-derived hollow and yolk-shell nanocages for improved water oxidation and selective ethylene glycol reformation. EScience, 2023, 3, 100118.	25.0	18
201	Metal-Organic Frameworks Applications in Synergistic Cancer Photo-Immunotherapy. Polymers, 2023, 15, 1490.	2.0	7
202	Review on the Role of Nanomaterials in Membrane Fabrication via Additive Manufacturing for Gas Separation. Current Nanomaterials, 2024, 9, 41-54.	0.2	0
203	Multiple Strategies Enhance the ROS of Metal-Organic Frameworks for Energy-Efficient Photocatalytic Water Purification and Sterilization. , 2023, 5, 1317-1331.		3
204	Metal-organic frameworks (MOFs) based luminescent and electrochemical sensors for food contaminant detection. Journal of Hazardous Materials, 2023, 453, 131324.	6.5	33
205	Introduction to Carbon Capture with Membranes. , 2023, , .		0
206	A Strongly Acid-Resistant [Th <sub>6</sub> ] Cluster-Based Framework for Effectively and Size-Selectively Catalyzing Reductive Amination of Aldehydes with N,N-Dimethylformamide. Angewandte Chemie - International Edition, 2023, 62, .	7.2	8
207	A Strongly Acid-Resistant [Th <sub>6</sub> ] Cluster-Based Framework for Effectively and Size-Selectively Catalyzing Reductive Amination of Aldehydes with N,N-Dimethylformamide. Angewandte Chemie, 0, , .	1.6	0
208	Efficient proton conduction in porous and crystalline covalent-organic frameworks (COFs). Journal of Energy Chemistry, 2023, 82, 198-218.	7.1	13
209	Fabrication of amorphous metal-organic framework in deep eutectic solvent for boosted organophosphorus pesticide adsorption. Journal of Environmental Chemical Engineering, 2023, 11, 109963.	3.3	2
224	MOForganic Chemistry: Challenges and Opportunities for Metal-Organic Frameworks in Synthetic Organic Chemistry. Chemistry of Materials, 2023, 35, 4883-4896.	3.2	4
226	Optimization Strategies of the Design and Preparation of Metal-Organic Framework Nanostructures for Water Sorption: A Review. ACS Applied Nano Materials, 2023, 6, 10903-10924.	2.4	4
228	Review and Perspectives of Monolithic Metal-Organic Frameworks: Toward Industrial Applications. Energy & Fuels, 2023, 37, 9938-9955.	2.5	5
237	Metal-Organic Frameworks on Versatile Substrates. Journal of Materials Chemistry A, 0, , .	5.2	1
242	Recent trends on MIL-Fe metal-organic frameworks: synthesis approaches, structural insights, and applications in organic pollutant adsorption and photocatalytic degradation. Environmental Science: Nano, 2023, 10, 2957-2988.	2.2	7
267	Metal-organic framework-derived metal oxides for resistive gas sensing: a review. Physical Chemistry Chemical Physics, 0, , .	1.3	0
269	Current Advances in the Synthesis of CD-MOFs and Their Water Stability. , 0, , .		0

#	ARTICLE	IF	CITATIONS
283	Mesopore and macropore engineering in metal-organic frameworks for energy environment-related applications. Journal of Materials Chemistry A, 2024, 12, 4931-4970.	5.2	0