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Mesoporous Metal-Organic Framework with Well-Defined Cruciate Flower-Like Morphology for Enzyme Immobilization

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141	Integration of Biomolecules with Metal-Organic Frameworks. 2017 , 13, 1700880		99
140	Biomimetic preparation of robust metal-organic frameworks biocomposites film with high enzyme load for electrochemical biosensing. 2018 , 823, 40-46		20
139	Multifunctional Hollow Shell Microspheres Derived from Cross-Linking of MnO ₂ Nanoneedles by Zirconium-Based Coordination Polymer: Enzyme Mimicking, Micromotors, and Protein Immobilization. 2018 , 30, 1625-1634		25
138	Recent advances in biomolecule immobilization based on self-assembly: organic-inorganic hybrid nanoflowers and metal-organic frameworks as novel substrates. 2018 , 6, 1581-1594		52
137	Control of Structure Topology and Spatial Distribution of Biomacromolecules in Biocomposites. 2018 , 30, 1069-1077		101
136	Nanoscale Zr-Based MOFs with Tailorable Size and Introduced Mesopore for Protein Delivery. 2018 , 28, 1707356		64
135	Lipase Encapsulation onto ZIF-8: A Comparison between Biocatalysts Obtained at Low and High Zinc/2-Methylimidazole Molar Ratio in Aqueous Medium. 2018 , 10, 1578-1585		29
134	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. 2018 , 10, 93-105		51
133	Poly(carboxybetaine methacrylate)-grafted silica nanoparticle: A novel carrier for enzyme immobilization. 2018 , 132, 122-129		32
132	Investigation of Controlled Growth of Metal-Organic Frameworks on Anisotropic Virus Particles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18161-18169	9.5	63
131	Immobilization of cellulase on styrene/maleic anhydride copolymer nanoparticles with improved stability against pH changes. <i>Chemical Engineering Journal</i> , 2018 , 336, 152-159	14.7	46
130	Mesoporous Metal-Organic Frameworks: Synthetic Strategies and Emerging Applications. 2018 , 14, e1801454		92
129	From Zeolitic Imidazolate Framework-8 to Metal-Organic Frameworks (MOFs): Representative Substance for the General Study of Pioneering MOF Applications. 2018 , 1, 209-220		20
128	Reversible Thermal Cycling of DNA Material for Efficient Cellulose Hydrolysis.. 2018 , 1, 1118-1123		3
127	Carbonic Anhydrase Enzyme-MOFs Composite with a Superior Catalytic Performance to Promote CO Absorption into Tertiary Amine Solution. 2018 , 52, 12708-12716		81
126	Photodynamic Therapy Based on Nanoscale Metal-Organic Frameworks: From Material Design to Cancer Nanotherapeutics. 2018 , 13, 3122-3149		55
125	Enzyme-Embedded Metal-Organic Framework Colloidosomes via an Emulsion-Based Approach. 2018 , 13, 2891-2896		25

124	Effective Enzyme Immobilization onto a Magnetic Chitin Nanofiber Composite. 2018 , 6, 8118-8124		56
123	Optimization protocols and improved strategies for metal-organic frameworks for immobilizing enzymes: Current development and future challenges. <i>Coordination Chemistry Reviews</i> , 2018 , 370, 22-41 ^{23,2}		110
122	Immobilized carbonic anhydrase on mesoporous cruciate flower-like metal organic framework for promoting CO sequestration. 2018 , 117, 189-198		41
121	Hydrophilic tripeptide-functionalized magnetic metal-organic frameworks for the highly efficient enrichment of N-linked glycopeptides. 2018 , 10, 12149-12155		71
120	Progress & prospect of metal-organic frameworks (MOFs) for enzyme immobilization (enzyme/MOFs). 2018 , 91, 793-801		98
119	X-Shaped ZIF-8 for Immobilization Rhizomucor miehei Lipase via Encapsulation and Its Application toward Biodiesel Production. 2018 , 8, 96		51
118	Palladium-mediated hybrid biocatalysts with enhanced enzymatic catalytic performance via allosteric effects. 2019 , 533, 1-8		14
117	Biocatalytic Metal-Organic Framework-Based Artificial Cells. 2019 , 29, 1905321		36
116	Novel bovine carbonic anhydrase encapsulated in a metal-organic framework: a new platform for biomimetic sequestration of CO ₂ . <i>RSC Advances</i> , 2019 , 9, 28460-28469	3.7	11
115	Acid-resistant enzyme@MOF nanocomposites with mesoporous silica shells for enzymatic applications in acidic environments. 2019 , 306, 54-61		16
114	Thermostable enzyme-immobilized magnetic responsive Ni-based metal-organic framework nanorods as recyclable biocatalysts for efficient biosynthesis of S-adenosylmethionine. <i>Dalton Transactions</i> , 2019 , 48, 2077-2085	4.3	20
113	A study of the development and properties of carbon fiber bulk yarns. 2019 , 110, 1152-1158		
112	Incorporation of biomolecules in Metal-Organic Frameworks for advanced applications. <i>Coordination Chemistry Reviews</i> , 2019 , 384, 90-106	23.2	117
111	Recent progress in multienzymes co-immobilization and multienzyme system applications. <i>Chemical Engineering Journal</i> , 2019 , 373, 1254-1278	14.7	163
110	Switchable Enzymatic Accessibility for Precision Cell-Selective Surface Glycan Remodeling. 2019 , 25, 10505-10510		5
109	Immobilizing cellulase on multi-layered magnetic hollow particles: Preparation, bio-catalysis and adsorption performances. 2019 , 285, 112-119		12
108	Improving the Acidic Stability of Zeolitic Imidazolate Frameworks by Biofunctional Molecules. 2019 , 5, 1597-1608		86
107	One-pot synthesis of a composite consisting of the enzyme ficin and a zinc(II)-2-methylimidazole metal organic framework with enhanced peroxidase activity for colorimetric detection for glucose. 2019 , 186, 213		21

106	Recent advances in mesoporous metal-organic frameworks. 2019 , 45, 20-34	9
105	Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pH-Speed Regulation at Ultralow Physiological H ₂ O ₂ Concentration. 2019 , 29, 1808900	48
104	Biom mineralization of orange peel peroxidase within metal organic frameworks (OPPMOFs) for dye degradation. 2019 , 7, 102969	26
103	Carbonic Anhydrase@ZIF-8 Hydrogel Composite Membrane with Improved Recycling and Stability for Efficient CO Capture. 2019 , 67, 3372-3379	31
102	SuFEx-based strategies for the preparation of functional particles and cation exchange resins. 2019 , 55, 3891-3894	5
101	Immobilization of laccase onto modified PU/RC nanofiber via atom transfer radical polymerization method and application in removal of bisphenol A. 2019 , 19, 815-824	6
100	A point-of-care diagnostics logic detector based on glucose oxidase immobilized lanthanide functionalized metal-organic frameworks. 2019 , 11, 22946-22953	22
99	Ecofriendly construction of enzyme reactor based on three-dimensional porous cryogel composites. <i>Chemical Engineering Journal</i> , 2019 , 361, 286-293	14.7 12
98	Catalytic applications of enzymes encapsulated in metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019 , 381, 151-160	23.2 146
97	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. 2018 , 11,	29
96	Antibodies@MOFs: An In Vitro Protective Coating for Preparation and Storage of Biopharmaceuticals. 2019 , 31, e1805148	93
95	Enhanced Activity of Alcohol Dehydrogenase in Porous Silica Nanosheets with Wide Size Distributed Mesopores. 2019 , 92, 275-282	13
94	Enhanced Activity of Enzymes Encapsulated in Hydrophilic Metal-Organic Frameworks. 2019 , 141, 2348-2355	190
93	Improving laccase activity and stability by HKUST-1 with cofactor via one-pot encapsulation and its application for degradation of bisphenol A. 2020 , 383, 121130	46
92	Direct Observation of Amorphous Precursor Phases in the Nucleation of Protein-Metal-Organic Frameworks. 2020 , 142, 1433-1442	39
91	Biomimetic mineralization of nitrile hydratase into a mesoporous cobalt-based metal-organic framework for efficient biocatalysis. 2020 , 12, 967-972	24
90	Entrapment of surfactant modified lipase within zeolitic imidazolate framework (ZIF)-8. 2020 , 146, 678-686	34
89	Metal-organic frameworks as novel matrices for efficient enzyme immobilization: An update review. <i>Coordination Chemistry Reviews</i> , 2020 , 406, 213149	23.2 152

88	Metal-organic framework-based nanomaterials for biomedical applications. <i>Chinese Chemical Letters</i> , 2020 , 31, 1060-1070	8.1	47
87	Synthesis of Dual-Responsive Materials with Reversible and Switchable Phase-Transition Properties for High-Performance Cellulose Enzymatic Hydrolysis. 2020 , 13, 663-667		4
86	Metal-organic frameworks (MOFs) for biopreservation: From biomacromolecules, living organisms to biological devices. 2020 , 35, 100985		23
85	Preparation of macroporous hybrid monoliths via iron-based MOFs-stabilized CO ₂ -in-water HIPES and use for Amylase immobilization. 2020 , 31, 2967-2979		5
84	Metal-Organic Frameworks for Enzyme Immobilization: Beyond Host Matrix Materials. 2020 , 6, 1497-1506		89
83	Properties of Cobalt- and Nickel-Doped Zif-8 Framework Materials and Their Application in Heavy-Metal Removal from Wastewater. 2020 , 10,		13
82	Solvent-Free Synthetic Fe ₃ O ₄ @ZIF-8 Coated Lipase as a Magnetic-Responsive Pickering Emulsifier for Interfacial Biocatalysis. 2020 , 150, 3608-3616		8
81	Fabricating Bioactive 3D Metal-Organic Framework Devices. 2020 , 4, 2000059		4
80	Multienzyme co-immobilization-based bioelectrode: Design of principles and bioelectrochemical applications. 2020 , 28, 2037-2050		5
79	Fabrication of an in-situ co-immobilized enzyme in mesoporous silica for synthesizing GSH with ATP regeneration. 2020 , 486, 110870		6
78	Room-temperature preparation of coordination polymers for biomedicine. <i>Coordination Chemistry Reviews</i> , 2020 , 411, 213256	23.2	14
77	One-pot synthesis of efficient carbonic anhydrase-zeolitic imidazolate framework-8 composite for enhancing CO ₂ absorption. 2020 , 40, 101211		7
76	Metal-organic frameworks (MOFs): a novel support platform for ASNase immobilization. 2020 , 55, 6130-6144		19
75	Metal-Organic Framework in Situ Post-Encapsulating DNA-Enzyme Composites on a Magnetic Carrier with High Stability and Reusability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7510-7517	9.5	28
74	Enzyme embedded metal organic framework (enzyme-MOF): De novo approaches for immobilization. 2020 , 149, 861-876		61
73	MoC-Embedded Carambola-like N,S-Rich Carbon Framework as the Interlayer Material for High-Rate Lithium-Sulfur Batteries in a Wide Temperature Range. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22971-22980	9.5	34
72	Biological metal organic framework (bio-MOF) of glucoamylase with enhanced stability. 2020 , 193, 111052		17
71	Hierarchically porous metal-organic frameworks: synthesis strategies, structure(s), and emerging applications in decontamination. 2020 , 397, 122765		38

70	Metal-organic frameworks (MOFs) for enzyme immobilization. 2020 , 491-523		6
69	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO. 2020 , 155, 110-118		43
68	Porous biochar/chitosan composites for high performance cellulase immobilization by glutaraldehyde. 2020 , 138, 109561		23
67	Synthesis of dehydroepiandrosterone by co-immobilization of keto reductase and glucose dehydrogenase. 2020 , 95, 2530-2536		0
66	One-step preparation of hydrophilic metal-organic framework materials with bimetallic linkers and polycarboxylic acid ligands and their adsorption properties. 2021 , 611, 125843		2
65	Morphology-dependent intelligent biocatalysts with automatic functionality regulation for activity enhancement and controllable recycling. <i>Chemical Engineering Journal</i> , 2021 , 409, 127985	14.7	4
64	Self-assembled zeolitic imidazolate framework-8/Ag nanoparticles composite with well-controlled flower-like architectures for ultrasensitive surface-enhanced Raman scattering detection. 2021 , 537, 147853		10
63	A dual enzyme-containing microreactor for consecutive digestion based on hydrophilic ZIF-90 with size-selective sheltering. 2021 , 197, 111422		8
62	Metal-organic frameworks (MOFs) for sensing. 2021 , 57, 91-91		2
61	Stable MOF@enzyme composites for electrochemical biosensing devices. 2021 , 9, 7677-7688		6
60	Metal-Organic Framework-Based Enzyme Biocomposites. 2021 , 121, 1077-1129		107
59	Synthesis of ZIF-8 with encapsulated hexachlorocyclotriphosphazene and its quenching mechanism for flame-retardant epoxy resin. 2021 , 314, 110885		15
58	Facile synthesis of catalase@ZIF-8 composite by biomimetic mineralization for efficient biocatalysis. 2021 , 44, 1309-1319		6
57	Toward Covalent Organic Framework Metastructures. 2021 , 143, 5003-5010		10
56	Influence of the Synthesis and Storage Conditions on the Activity of Lipase B ZIF-8 Biocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	6
55	Three-dimensional ordered magnetic macroporous metal-organic frameworks for enzyme immobilization. 2021 , 590, 436-445		25
54	Highly-stable <i>Madurella mycetomatis</i> laccase immobilized in silica-coated ZIF-8 nanocomposites for environmentally friendly cotton bleaching process. 2021 , 202, 111672		7
53	Fabrication and characterization of purified esterase-embedded zeolitic imidazolate frameworks for the removal and remediation of herbicide pollution from soil. 2021 , 288, 112450		4

52	Structural modulation of heterometallic metal-organic framework via a facile metal-ion-assisted surface etching and structural transformation. 2021 , 334, 116073		1
51	De Novo Approach to Encapsulating Biocatalysts into Synthetic Matrixes: From Enzymes to Microbial Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
50	Sustainable One-Pot Immobilization of Enzymes in/on Metal-Organic Framework Materials. 2021 , 11, 1002		6
49	A Non-label Electrochemical Aptasensor Based on Cu Metal-Organic Framework to Measure Aflatoxin B1 in Wheat Flour. 1		3
48	Hierarchical mesoporous metal-organic frameworks encapsulated enzymes: Progress and perspective. <i>Coordination Chemistry Reviews</i> , 2021 , 443, 214032	23.2	17
47	Magnetic ZIF-8-Based Mimic Multi-enzyme System as a Colorimetric Biosensor for Detection of Aryloxyphenoxypropionate Herbicides. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44329-44338	9.5	4
46	Aggregation-induced emission of 4-formyl-3-hydroxybenzoic acid for the ratiometric fluorescence detection of tetracycline antibiotics. 2021 , 197, 109841		3
45	Employment of polysaccharides in enzyme immobilization. 2021 , 167, 105005		8
44	Enhanced enzymatic performance of immobilized lipase on metal organic frameworks with superhydrophobic coating for biodiesel production. 2021 , 602, 426-436		17
43	Durable hydrophobic Enteromorpha design for controlling oil spills in marine environment prepared by organosilane modification for efficient oil-water separation. 2022 , 421, 126824		3
42	Zn-MOF decorated bio activated carbon for photocatalytic degradation, oxygen evolution and reduction catalysis. 2022 , 421, 126720		4
41	Enzyme self-aggregation in supramolecular self-assembly of glucose oxidase and catalase: Insight from molecular dynamics simulation based on coarse-grained method. <i>Chemical Physics</i> , 2022 , 552, 111366	2.2	1
40	Prussian Blue and Other Metal-Organic Framework-based Nanozymes. <i>Nanostructure Science and Technology</i> , 2020 , 141-170	0.9	4
39	One-step synthesis of carboxyl-functionalized metal-organic framework with binary ligands for highly selective enrichment of N-linked glycopeptides. <i>Talanta</i> , 2017 , 175, 477-482	6.2	47
38	The solvent and zinc source dual-induced synthesis of a two dimensional zeolitic imidazolate framework with a farfalle-shape and its crystal transformation to zeolitic imidazolate framework-8. <i>Dalton Transactions</i> , 2020 , 49, 2437-2443	4.3	2
37	Biomimetic growth of ultrahigh-load metal-organic frameworks on inert glass fibers to prepare hybrid membranes for collecting organic hazards in unconventional environment. <i>Chemical Engineering Journal</i> , 2021 , 430, 132956	14.7	0
36	Catalase-integrated metal-organic framework with synergetic catalytic activity for colorimetric sensing. <i>Environmental Research</i> , 2021 , 207, 112147	7.9	1
35	Enzyme Immobilization on Metal-Organic Framework (MOF): Effects on Thermostability and Function. <i>Protein and Peptide Letters</i> , 2019 , 26, 636-647	1.9	1

34	Cadmium sulfide net framework nanoparticles for photo-catalyzed cell redox.. <i>RSC Advances</i> , 2020 , 10, 37820-37825	3.7	1
33	Recent Advances in Emerging Metal- and Covalent-Organic Frameworks for Enzyme Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56752-56776	9.5	8
32	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , 2021 , 454, 214327	23.2	11
31	Development of an electrochemical aptasensor based on Au nanoparticles decorated on metal-organic framework nanosheets and p-biphenol electroactive label for the measurement of aflatoxin B1 in a rice flour sample.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 414, 1973	4.4	2
30	An efficient multi-enzyme cascade platform based on mesoporous metal-organic frameworks for the detection of organophosphorus and glucose.. <i>Food Chemistry</i> , 2022 , 381, 132282	8.5	4
29	Hydrogel/Metal-Organic-Framework Nanoparticle Composites for Immobilization of Active Biomacromolecules. <i>ACS Applied Nano Materials</i> ,	5.6	0
28	Biomimetic Metal-Organic Frameworks as Protective Scaffolds for Live-Virus Encapsulation and Vaccine Stabilization.. <i>Acta Biomaterialia</i> , 2022 ,	10.8	2
27	Modulating Carbon Dioxide Storage by Facile Synthesis of Nanoporous Pillared-Layered Metal-Organic Framework with Different Synthetic Routes.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
26	Recent Advances in Enzyme Immobilization Utilizing Nanotechnology for Biocatalysis. <i>Organic Process Research and Development</i> ,	3.9	2
25	Emerging 3D Printing Strategies for Enzyme Immobilization: Materials, Methods, and Applications.. <i>ACS Omega</i> , 2022 , 7, 11530-11543	3.9	6
24	Pickering interfacial biocatalysis with enhanced diffusion processes for CO2 mineralization. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1184-1191	11.3	1
23	Encapsulation of Nitrilase in Zeolitic Imidazolate Framework-90 to Improve Its Stability and Reusability.. <i>Applied Biochemistry and Biotechnology</i> , 2022 , 1	3.2	0
22	Metalloporphyrin and gold nanoparticles modified hollow zeolite imidazole Framework-8 with excellent peroxidase like activity for quick colorimetric determination of choline in infant formula milk powder.. <i>Food Chemistry</i> , 2022 , 384, 132552	8.5	0
21	Effect of Functional Group on the Catalytic Activity of Lipase B from Immobilized in a Silica-Reinforced Pluronic F127/ β Cyclodextrin Hydrogel.. <i>Gels</i> , 2021 , 8,	4.2	0
20	Recent development in antibacterial activity and application of nanozymes in food preservation.. <i>Critical Reviews in Food Science and Nutrition</i> , 2022 , 1-19	11.5	2
19	A colorimetric assay for cholesterol based on the encapsulation of multi-enzyme in leaf-shape crossed ZIF-L. <i>Chinese Chemical Letters</i> , 2022 ,	8.1	0
18	A series of novel Cu-based MOFs: syntheses, structural diversity, catalytic properties and mimic peroxidase activity for colorimetric detection of H2O2. <i>New Journal of Chemistry</i> ,	3.6	0
17	Metal-Organic Frameworks Encapsulated Ag Nanoparticle-Nanoclusters with Enhanced Luminescence for Simultaneous Detection and Removal of Chromium(VI). <i>Microchemical Journal</i> , 2022 , 107722	4.8	0

16	Nanoarchitectonics of Enzyme/Metal-Organic Framework Composites for Wastewater Treatment. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> ,	3.2	0
15	A Cruciform Petal-like (ZIF-8) with Bactericidal Activity against Foodborne Gram-Positive Bacteria for Antibacterial Food Packaging. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 7510	6.3	2
14	Three-in-one Nanohybrids as synergistic nanozymes assisted with exonuclease I amplification to enhance colorimetric aptasensor for ultrasensitive detection of kanamycin. <i>Analytica Chimica Acta</i> , 2022 , 340178	6.6	0
13	Boosting Hydrolysis of Cellulose at High Temperature by β -Glucosidase Induced Metal-Organic Framework In-situ Co-precipitation Encapsulation.		1
12	Enhanced DNA nuclease activity of Momordica charantia lectin by biomimetic mineralization as hybrid copper phosphate nanoflowers and as zeolitic imidazole frameworks. 2022 ,		0
11	Synthesis and Biomedical Applications of Highly Porous Metal-Organic Frameworks. 2022 , 27, 6585		0
10	Potential application of the immobilization of carbonic anhydrase based on metal organic framework supports. 2022 , 122, 214-223		0
9	Atmospheric-Water-Induced Reversible Structural Transformation of a Two-Dimensional Ni(II)-Based Ferromagnetic MOF: A Highly Efficient Water Oxidation Electrocatalyst and Colorimetric Water Sensor.		0
8	Construction of enzyme@glutathione hybrid metal-organic frameworks: glutathione-boosted microenvironment fine-tuning of biomimetic immobilization for improving catalytic performance. 2023 , 27, 101326		0
7	Facile synthesis of dual-hydrolase encapsulated magnetic ZIF-8 composite for efficient removal of multi-pesticides induced pollution in water. 2022 , 137673		1
6	Assessment of Enzyme Functionality at Metal-Organic Framework Interfaces Developed through Molecular Simulations. 2023 , 39, 1750-1763		0
5	Dual-Enzyme Cascade Composed of Chitosan Coated FeS ₂ Nanozyme and Glucose Oxidase for Sensitive Glucose Detection. 2023 , 28, 1357		0
4	Construction of Macroporous β -Glucosidase@MOFs by a Metal Competitive Coordination and Oxidation Strategy for Efficient Cellulose Conversion at 120 °C. 2023 , 15, 8157-8168		0
3	Immobilized short-chain dehydrogenase/reductase on Fe ₃ O ₄ particles acts as a magnetically recoverable biocatalyst component in patulin bio-detoxification system. 2023 , 448, 130986		0
2	Nanoscale MOFs in nanomedicine applications: from drug delivery to therapeutic agents. 2023 , 11, 3273-3294		0
1	Bioinspired Framework Catalysts: From Enzyme Immobilization to Biomimetic Catalysis.		0