Zhi-Ming Zhang

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Encapsulating Perovskite Quantum Dots in Ironâ€Based Metalâ€"Organic Frameworks (MOFs) for Efficient Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2019, 58, 9491-9495.	7.2	503
2	Polyoxometalate-Based Cobaltâ€"Phosphate Molecular Catalysts for Visible Light-Driven Water Oxidation. Journal of the American Chemical Society, 2014, 136, 5359-5366.	6.6	414
3	Photosensitizing Metalâ€"Organic Framework Enabling Visible-Light-Driven Proton Reduction by a Wellsâ€"Dawson-Type Polyoxometalate. Journal of the American Chemical Society, 2015, 137, 3197-3200.	6.6	374
4	Polyoxometalate-Based Nickel Clusters as Visible Light-Driven Water Oxidation Catalysts. Journal of the American Chemical Society, 2015, 137, 5486-5493.	6.6	341
5	Feâ€CoP Electrocatalyst Derived from a Bimetallic Prussian Blue Analogue for Largeâ€Currentâ€Density Oxygen Evolution and Overall Water Splitting. Advanced Science, 2018, 5, 1800949.	5.6	318
6	Extraction of nickel from NiFe-LDH into Ni₂P@NiFe hydroxide as a bifunctional electrocatalyst for efficient overall water splitting. Chemical Science, 2018, 9, 1375-1384.	3.7	257
7	Incorporating Polyoxometalates into a Porous MOF Greatly Improves Its Selective Adsorption of Cationic Dyes. Chemistry - A European Journal, 2014, 20, 6927-6933.	1.7	237
8	Hierarchical Integration of Photosensitizing Metalâ€"Organic Frameworks and Nickelâ€Containing Polyoxometalates for Efficient Visibleâ€Lightâ€Driven Hydrogen Evolution. Angewandte Chemie - International Edition, 2016, 55, 6411-6416.	7.2	230
9	Simultaneous Trapping of C₂H₂ and C₂H₆ from a Ternary Mixture of C₂H₂/C₂H₄/C₂H₆ in a Robust Metalâ€"Organic Framework for the Purification of C₂H₄. Angewandte Chemie - International Edition, 2018, 57, 16067-16071.	7.2	223
10	In Situ Synthesis of CdS/Graphdiyne Heterojunction for Enhanced Photocatalytic Activity of Hydrogen Production. ACS Applied Materials & Interfaces, 2019, 11, 2655-2661.	4.0	161
11	Enantiomerically Pure Chiral {Fe₂₈} Wheels. Angewandte Chemie - International Edition, 2009, 48, 1581-1584.	7.2	144
12	Protein-Sized Chiral Fe₁₆₈ Cages with NbO-Type Topology. Journal of the American Chemical Society, 2009, 131, 14600-14601.	6.6	128
13	Polyoxoniobate-based 3D framework materials with photocatalytic hydrogen evolution activity. Chemical Communications, 2014, 50, 6017.	2.2	124
14	Photosensitizing single-site metalâ^'organic framework enabling visible-light-driven CO2 reduction for syngas production. Applied Catalysis B: Environmental, 2019, 245, 496-501.	10.8	119
15	Facile electron delivery from graphene template to ultrathin metal-organic layers for boosting CO2 photoreduction. Nature Communications, 2021, 12, 813.	5.8	114
16	Polyoxometalate-assisted synthesis of transition-metal cubane clusters as artificial mimics of the oxygen-evolving center of photosystem II. Coordination Chemistry Reviews, 2016, 313, 94-110.	9.5	111
17	Single-atom molybdenum immobilized on photoactive carbon nitride as efficient photocatalysts for ambient nitrogen fixation in pure water. Journal of Materials Chemistry A, 2019, 7, 19831-19837.	5.2	108
18	New trimeric polyoxotungstate aggregates based on [P2W12O48]14â^' building blocks. Chemical Communications, 2008, , 1650.	2.2	106

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19	Polyoxometalate-based purely inorganic porous frameworks with selective adsorption and oxidative catalysis functionalities. Chemical Communications, 2013, 49, 3673.	2.2	105
20	H-Bond-Mediated Selectivity Control of Formate versus CO during CO₂ Photoreduction with Two Cooperative Cu/X Sites. Journal of the American Chemical Society, 2021, 143, 6114-6122.	6.6	105
21	A broadband and strong visible-light-absorbing photosensitizer boosts hydrogen evolution. Nature Communications, 2019, 10, 3155.	5.8	103
22	Feeding Carbonylation with CO₂ via the Synergy of Single-Site/Nanocluster Catalysts in a Photosensitizing MOF. Journal of the American Chemical Society, 2021, 143, 20792-20801.	6.6	91
23	Highly Dispersed Polyoxometalateâ€Doped Porous Co₃O₄ Water Oxidation Photocatalysts Derived from POM@MOF Crystalline Materials. Chemistry - A European Journal, 2016, 22, 15513-15520.	1.7	87
24	Cation-mediated optical resolution and anticancer activity of chiral polyoxometalates built from entirely achiral building blocks. Chemical Science, 2016, 7, 4220-4229.	3.7	87
25	Four Polyoxonibate-Based Inorganicâ€“Organic Hybrids Assembly from Bicapped Heteropolyoxonibate with Effective Antitumor Activity. Crystal Growth and Design, 2014, 14, 110-116.	1.4	85
26	Charge-regulated sequential adsorption of anionic catalysts and cationic photosensitizers into metal-organic frameworks enhances photocatalytic proton reduction. Applied Catalysis B: Environmental, 2018, 224, 46-52.	10.8	81
27	A polyoxometalate-based single-molecule magnet with a mixed-valent {MnIV2MnIII6MnII4} core. Chemical Communications, 2013, 49, 2515.	2.2	80
28	Highly Efficient Cooperative Catalysis by Co^{III}(Porphyrin) Pairs in Interpenetrating Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 13739-13743.	7.2	78
29	Hexameric polyoxometalates decorated by six 3dâ€“4f heterometallic clusters. Dalton Transactions, 2011, 40, 6475.	1.6	74
30	Polyoxometalateâ€Derived Ultrasmall Pt₂W/WO₃ Heterostructure Outperforms Platinum for Largeâ€Currentâ€Density H₂ Evolution. Advanced Energy Materials, 2019, 9, 1900597.	10.2	74
31	Photocatalytic coproduction of H2 and industrial chemical over MOF-derived direct Z-scheme heterostructure. Applied Catalysis B: Environmental, 2020, 273, 119066.	10.8	73
32	Simultaneous Trapping of C₂H₂ and C₂H₆ from a Ternary Mixture of C₂H₂/C₂H₄/C₂H₆ in a Robust Metalâ€“Organic Framework for the Purification of C₂H₄. Angewandte Chemie, 2018, 130, 16299-16303.	1.6	71
33	Robust and Long-Lived Excited State Ru(II) Polyimine Photosensitizers Boost Hydrogen Production. ACS Catalysis, 2018, 8, 8659-8670.	5.5	69
34	Chiral recognition and selection during the self-assembly process of protein-mimic macroanions. Nature Communications, 2015, 6, 6475.	5.8	66
35	A new electrodeposition approach for preparing polyoxometalates-based electrochromic smart windows. Journal of Materials Chemistry A, 2013, 1, 216-220.	5.2	59
36	Encapsulation of Single Iron Sites in a Metalâ€“Porphyrin Framework for High-Performance Photocatalytic CO₂ Reduction. Inorganic Chemistry, 2020, 59, 6301-6307.	1.9	57

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37	Filling COFs with bimetallic nanoclusters for CO2-to-alcohols conversion with H2O oxidation. Applied Catalysis B: Environmental, 2021, 288, 120001.	10.8	56
38	Hierarchical Integration of Photosensitizing Metalâ€“Organic Frameworks and Nickelâ€Containing Polyoxometalates for Efficient Visibleâ€Lightâ€Driven Hydrogen Evolution. Angewandte Chemie, 2016, 128, 6521-6526.	1.6	53
39	Encapsulating Perovskite Quantum Dots in Ironâ€Based Metalâ€“Organic Frameworks (MOFs) for Efficient Photocatalytic CO₂ Reduction. Angewandte Chemie, 2019, 131, 9591-9595.	1.6	53
40	Recent progress in polyoxoniobates decorated and stabilized via transition metal cations or clusters. CrystEngComm, 2015, 17, 6261-6268.	1.3	51
41	Encapsulation of tungstophosphoric acid into harmless MIL-101(Fe) for effectively removing cationic dye from aqueous solution. RSC Advances, 2016, 6, 81622-81630.	1.7	48
42	Switching Excited State Distribution of Metalâ€“Organic Framework for Dramatically Boosting Photocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	48
43	A New Ni₁₂ Cluster Based on Polyoxometalate Ligands. Inorganic Chemistry, 2009, 48, 10889-10891.	1.9	47
44	Improving photosensitization for photochemical CO2-to-CO conversion. National Science Review, 2020, 7, 1459-1467.	4.6	44
45	Self-Template Synthesis of Coâ€“Seâ€“Sâ€“O Hierarchical Nanotubes as Efficient Electrocatalysts for Oxygen Evolution under Alkaline and Neutral Conditions. ACS Applied Materials & Interfaces, 2018, 10, 8231-8237.	4.0	43
46	Extended structural materials composed of transition-metal-substituted arsenicniobates and their photocatalytic activity. RSC Advances, 2015, 5, 44198-44203.	1.7	40
47	Capped Polyoxometalate Pillars between Metalâ€“Organic Layers for Transferring a Supramolecular Structure into a Covalent 3D Framework. Inorganic Chemistry, 2018, 57, 1342-1349.	1.9	40
48	Phosphorized polyoxometalate-etched iron-hydroxide porous nanotubes for efficient electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2018, 6, 24479-24485.	5.2	39
49	Construction of hierarchical photocatalysts by growing ZnIn2S4 nanosheets on Prussian blue analogue-derived bimetallic sulfides for solar co-production of H2 and organic chemicals. Journal of Energy Chemistry, 2021, 54, 386-394.	7.1	39
50	Boosting Photocatalytic Activities for Organic Transformations through Merging Photocatalyst and Transition-Metal Catalyst in Flexible Polymers. ACS Catalysis, 2020, 10, 11758-11767.	5.5	38
51	Charge Transfer from Donor to Acceptor in Conjugated Microporous Polymer for Enhanced Photosensitization. Angewandte Chemie - International Edition, 2021, 60, 22062-22069.	7.2	37
52	Inter-clusters synergy in iron-organic frameworks for efficient CO2 photoreduction. Applied Catalysis B: Environmental, 2022, 300, 120487.	10.8	34
53	A polyoxometalate-based ionic crystal assembly from a heterometallic cluster and polyoxoanions with visible-light catalytic activity. RSC Advances, 2013, 3, 20829.	1.7	31
54	W Singleâ€Atom Catalyst for CH₄ Photooxidation in Water Vapor. Advanced Materials, 2022, 34, .	11.1	31

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55	Inorganic Crown Ethers: Sulfateâ€Based Preyssler Polyoxometalates. Chemistry - A European Journal, 2012, 18, 9184-9188.	1.7	30
56	Unveiling Single Atom Nucleation for Isolating Ultrafine fcc Ru Nanoclusters with Outstanding Dehydrogenation Activity. Advanced Energy Materials, 2020, 10, 2002138.	10.2	29
57	Hot-electron leading-out strategy for constructing photostable HOF catalysts with outstanding H2 evolution activity. Applied Catalysis B: Environmental, 2021, 296, 120337.	10.8	28
58	Porous Î²-FeOOH nanotube stabilizing Au single atom for high-efficiency nitrogen fixation. Nano Research, 2022, 15, 3026-3033.	5.8	28
59	Thermotropic liquid crystals built from organicâ€"inorganic hybrid polyoxometalates and a simple cationic surfactant. Journal of Materials Chemistry C, 2013, 1, 3681.	2.7	26
60	Strong Visibleâ€Lightâ€Absorbing Cuprous Sensitizers for Dramatically Boosting Photocatalysis. Angewandte Chemie - International Edition, 2020, 59, 12951-12957.	7.2	26
61	Highly Efficient Cooperative Catalysis by Co^{III}(Porphyrin) Pairs in Interpenetrating Metalâ€"Organic Frameworks. Angewandte Chemie, 2016, 128, 13943-13947.	1.6	24
62	Polyoxometalate-based supramolecular architecture constructed from a purely inorganic 1D chain and a metalâ€"organic layer with efficient catalytic activity. RSC Advances, 2016, 6, 15513-15517.	1.7	24
63	Highly efficient oxygen evolution electrocatalysts prepared by using reduction-engraved ferrites on graphene oxide. Inorganic Chemistry Frontiers, 2018, 5, 310-318.	3.0	24
64	Nitrogen Coordination To Dramatically Enhance the Stability of In-MOF for Selectively Capturing CO₂ from a CO₂/N₂ Mixture. Crystal Growth and Design, 2019, 19, 1322-1328.	1.4	24
65	Charge Transfer from Donor to Acceptor in Conjugated Microporous Polymer for Enhanced Photosensitization. Angewandte Chemie, 2021, 133, 22233-22240.	1.6	24
66	Construction of Lowâ€Cost Zâ€Scheme Heterostructure Cu₂O/PCN for Highly Selective CO₂ Photoreduction to Methanol with Water Oxidation. Small, 2021, 17, e2103558.	5.2	23
67	Sensitizing Ru(II) polyimine redox center with strong light-harvesting coumarin antennas to mimic energy flow of biological model for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2019, 253, 105-110.	10.8	22
68	Anchoring ultrafine Cu2O nanocluster on PCN for CO2 photoreduction in water vapor with much improved stability. Applied Catalysis B: Environmental, 2022, 317, 121702.	10.8	22
69	Integration of Lnâ€Sandwich POMs into Molecular Porous Systems Leading to Selfâ€Assembly of Metalâ€"POM Framework Materials. European Journal of Inorganic Chemistry, 2013, 2013, 4770-4774.	1.0	21
70	Interfacial electronic interaction of atomically dispersed IrClx on ultrathin Co(OH)2/CNTs for efficient electrocatalytic water oxidation. Applied Catalysis B: Environmental, 2020, 279, 119398.	10.8	21
71	Doping [Ru(bpy)3]2+ into metal-organic framework to facilitate the separation and reuse of noble-metal photosensitizer during CO2 photoreduction. Chinese Journal of Catalysis, 2021, 42, 1790-1797.	6.9	20
72	Engineering the Surface Structure of Binary/Ternary Ferrite Nanoparticles as Highâ€Performance Electrocatalysts for the Oxygen Evolution Reaction. ChemCatChem, 2018, 10, 1075-1083.	1.8	19

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73	Assembly of polyoxometalates and Ni-bpy cationic units into the molecular coreâ€“shell structures as bifunctional electrocatalysts. RSC Advances, 2016, 6, 99010-99015.	1.7	18
74	Two New {P8W49} Wheel-shaped Tungstophosphates Decorated by Co(II), Ni(II) Ions. Journal of Cluster Science, 2010, 21, 679-689.	1.7	17
75	Synthesis of a poly-pendant 1-D chain based on â€˜trans-vanadiumâ€™ bicapped, Keggin-type vanadtungstate and its photocatalytic properties. Dalton Transactions, 2014, 43, 16265-16269.	1.6	17
76	Synergistic Effect over Sub-nm Pt Nanocluster@MOFs Significantly Boosts Photo-oxidation of N-alkyl(iso)quinolinium Salts. IScience, 2020, 23, 100793.	1.9	16
77	Heterometallic 3dâ€“4f cluster-containing polyoxotungstate obtained by partial disassembly of preformed large clusters. RSC Advances, 2015, 5, 76206-76210.	1.7	15
78	Expansion of sodalite-type metalâ€“organic frameworks with heterometallic metalâ€“oxo cluster and its cation exchange property. CrystEngComm, 2013, 15, 459-462.	1.3	14
79	Heavy atom-free Keto-di-coumarin as earth-abundant strong visible light-harvesting photosensitizer for efficient photocatalytic hydrogen evolution. Dyes and Pigments, 2019, 166, 84-91.	2.0	14
80	Accelerating Anode Reaction with Electro-oxidation of Alcohols over Ru Nanoparticles to Reduce the Potential for Water Splitting. ACS Applied Materials & Interfaces, 2022, 14, 1452-1459.	4.0	13
81	MOF/CC-derivatives with trace amount of cobalt oxides as efficient electrocatalysts for oxygen reduction reaction. Chinese Chemical Letters, 2019, 30, 989-994.	4.8	12
82	Grafting Transition Metalâ€“Organic Fragments onto W/Ta Mixedâ€Addendum Nanoclusters for Broadâ€Spectrumâ€Driven Photocatalysis. ChemPlusChem, 2014, 79, 1153-1158.	1.3	11
83	A cobalt-containing pseudosandwich-type polyoxometalate based on a lacunary Lindqvist polyoxovanadate. CrystEngComm, 2014, 16, 1187.	1.3	9
84	Strong Visibleâ€Lightâ€Absorbing Cuprous Sensitizers for Dramatically Boosting Photocatalysis. Angewandte Chemie, 2020, 132, 13051-13057.	1.6	8
85	A (3,6)-connected metal-organic framework consisting of chair-like {Fe6} clusters and BTC linkers. Journal of Coordination Chemistry, 2012, 65, 48-54.	0.8	6
86	Two new ladder-like inorganic chains constructed from Cu-containing sandwich polyoxoanions. Journal of Coordination Chemistry, 2009, 62, 1415-1422.	0.8	5
87	Switching Excited State Distribution of Metalâ€“Organic Framework for Dramatically Boosting Photocatalysis. Angewandte Chemie, 2022, 134, .	1.6	5
88	Extended structure constructed from sandwich-type tungstoantimonites fused together by water substitution on the sandwiching metal centers. Journal of Coordination Chemistry, 2012, 65, 1443-1450.	0.8	4
89	Crown Inorganicâ€“Organic Hybrid Composed of Copper-Amino Acid Rings and the Classical Keggin Polyoxoanions. Journal of Cluster Science, 2014, 25, 253-259.	1.7	4
90	Design and construction of a thermotropic liquid crystal material based on high-nuclear transition-metal cluster-containing polyoxometalates. RSC Advances, 2014, 4, 43806-43810.	1.7	4

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91	Self-assembly and thermotropic liquid crystal properties of a hexavacant germanomolybdate: [Ge2Mo16O58]12âˆ’. CrystEngComm, 2014, 16, 6784.	1.3	4
92	Heavy-atom free organic photosensitizers for efficient hydrogen evolution with Î»Â>Â600Ânm visible-light excitation. Applied Catalysis B: Environmental, 2022, 316, 121655.	10.8	3
93	Microenvironment Regulation of {Co₄^{II}O₄} Cubane for Syngas Photosynthesis. Inorganic Chemistry, 2022, 61, 13058-13066.	1.9	3
94	Design and synthesis of {CaCo₃}-based sandwich-type polyoxometalate. Journal of Coordination Chemistry, 2020, 73, 2373-2382.	0.8	2
95	Bidirectional sensitization in Ruthenium(II)-antenna dyad beyond energy flow of biological model for efficient photosynthesis. Dyes and Pigments, 2021, 196, 109811.	2.0	2
96	Extended structure constructed from {Co7} cluster-containing sandwich-type polyoxometalate. Inorganic Chemistry Communication, 2018, 95, 117-121.	1.8	1