

Ming-Dao Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,487

citations

26

h-index

48

g-index

92

ext. papers

3,072

ext. citations

5.7

avg, IF

5.55

L-index

#	Paper	IF	Citations
88	Novel MOF-Derived Co@N-C Bifunctional Catalysts for Highly Efficient Zn-Air Batteries and Water Splitting. <i>Advanced Materials</i> , 2018 , 30, 1705431	24	514
87	Solid-State Rechargeable Zn//NiCo and Zn//Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2018 , 8, 1802288	21.8	146
86	2D Metal-Organic Frameworks (MOFs) for High-Performance BatCap Hybrid Devices. <i>Small</i> , 2020 , 16, e2001987	11	113
85	Bifunctional electrocatalysts for Zn//air batteries: recent developments and future perspectives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6144-6182	13	81
84	MOF-derived Fe,Co@N/C bifunctional oxygen electrocatalysts for Zn//air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9355-9363	13	77
83	Three self-penetrated, interlocked, and polycatenated supramolecular isomers via one-pot synthesis and crystallization. <i>Chemical Communications</i> , 2012 , 48, 681-3	5.8	75
82	Syntheses, Structures, and Characteristics of Four New Metal-Organic Frameworks Based on Flexible Tetrapyridines and Aromatic Polycarboxylate Acids. <i>Crystal Growth and Design</i> , 2012 , 12, 3426-3435	3.5	70
81	Series of Metal-Organic Frameworks Including Novel Architectural Features Based on a Star-like Tri(4-pyridylphenyl)amine Ligand. <i>Crystal Growth and Design</i> , 2013 , 13, 1961-1969	3.5	66
80	Metal-Organic Frameworks Based on Flexible V-Shaped Polycarboxylate Acids: Hydrogen Bondings, Non-Interpenetrated and Polycatenated. <i>Crystal Growth and Design</i> , 2012 , 12, 4072-4082	3.5	65
79	D-D-EA organic dyes containing 4,4'-di(2-thienyl)triphenylamine moiety for efficient dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 634-41	3.6	63
78	Crystal Structures and Spectroscopic Properties of Metal-Organic Frameworks Based on Rigid Ligands with Flexible Functional Groups. <i>Crystal Growth and Design</i> , 2014 , 14, 491-499	3.5	57
77	Two Porous Zinc Coordination Polymers with (10,3) Topological Features Based on a N-Centered Tripodal Ligand and the Conversion of a (10,3)-d Subnet to a (10,3)-a Subnet. <i>Crystal Growth and Design</i> , 2011 , 11, 3039-3044	3.5	57
76	Diverse Structures of Metal-Organic Frameworks Based on a New Star-Like Tri(4-pyridylphenyl)amine Ligand. <i>Crystal Growth and Design</i> , 2012 , 12, 3957-3963	3.5	50
75	Luminescent metal-organic frameworks for nitro explosives detection. <i>Science China Chemistry</i> , 2016 , 59, 929-947	7.9	47
74	Structure-property relationship of homochiral and achiral supramolecular isomers obtained by one-pot synthesis. <i>Chemical Communications</i> , 2012 , 48, 10757-9	5.8	42
73	MOF-derived Co-MOF,O-doped carbon as trifunctional electrocatalysts to enable highly efficient Zn//air batteries and water-splitting. <i>Journal of Energy Chemistry</i> , 2021 , 56, 290-298	12	41
72	An Unprecedented Homochiral Metal-Organic Framework Based on Achiral Nanosized Pyridine and V-Shaped Polycarboxylate Acid Ligand. <i>Crystal Growth and Design</i> , 2013 , 13, 440-445	3.5	40

71	Highly-ordered TiO ₂ nanotube arrays with double-walled and bamboo-type structures in dye-sensitized solar cells. <i>Nano Energy</i> , 2012 , 1, 796-804	17.1	40
70	Fewer-layer conductive metal-organic nanosheets enable ultrahigh mass activity for the oxygen evolution reaction. <i>Chemical Communications</i> , 2018 , 54, 13579-13582	5.8	33
69	Effects of structural optimization on the performance of dye-sensitized solar cells: spirobifluorene as a promising building block to enhance Voc. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11782-11788	13	31
68	Three 2D/2D → 2D or 3D Coordination Polymers: Parallel Stacked, Interpenetration, and Polycatenated. <i>Crystal Growth and Design</i> , 2013 , 13, 5045-5049	3.5	29
67	3D hole-transporting materials based on coplanar quinolizino acridine for highly efficient perovskite solar cells. <i>Chemical Science</i> , 2017 , 8, 7807-7814	9.4	28
66	Critical factors influencing the structures and properties of metal-organic frameworks. <i>CrystEngComm</i> , 2015 , 17, 981-991	3.3	28
65	Chiral 3D/3D hetero-interpenetrating framework with six kinds of helices, 3D polyrotaxane and 2D network via one-pot reaction. <i>CrystEngComm</i> , 2013 , 15, 227-230	3.3	28
64	Tuning Structural Topologies of a Series of Metal-Organic Frameworks: Different Bent Dicarboxylates. <i>Crystal Growth and Design</i> , 2013 , 13, 2111-2117	3.5	27
63	Effects of heterocycles containing different atoms as bridges on the performance of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16334-40	3.6	26
62	Improvement of dye-sensitized solar cells performance through introducing suitable heterocyclic groups to triarylamine dyes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2809-15	3.6	26
61	Picolinic acid as an efficient tridentate anchoring group adsorbing at Lewis acid sites and Brønsted acid sites of the TiO ₂ surface in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14809-14816	13.1	25
60	A series of MOFs based on a triangular tri(4-pyridylphenyl)amine ligand combined with carboxylate or nitrate auxiliary ligands. <i>Dalton Transactions</i> , 2015 , 44, 1412-9	4.3	24
59	Construction of Metal-Organic Frameworks Based on Two Neutral Tetradentate Ligands. <i>Crystal Growth and Design</i> , 2012 , 12, 4911-4918	3.5	24
58	Three-dimensional D-πA organic sensitizer with coplanar triphenylamine moiety for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2017 , 140, 278-285	4.6	23
57	Enhanced performance of dye-sensitized solar cells with Y-shaped organic dyes containing di-anchoring groups. <i>New Journal of Chemistry</i> , 2016 , 40, 2799-2805	3.6	23
56	Two pairs of isomorphism and two 3D metal-organic frameworks based on a star-like ligand tri(4-pyridylphenyl)amine. <i>CrystEngComm</i> , 2014 , 16, 698-706	3.3	23
55	Syntheses, characterizations and properties of five new metal-organic complexes based on flexible ligand 4,4'-(phenylazanediy) dibenzoic acid. <i>CrystEngComm</i> , 2013 , 15, 616-627	3.3	23
54	Flower-like MOF-derived Co-doped carbon composite with remarkable activity and durability for electrochemical hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30075-30083	6.7	22

53	Chiral and Noncentrosymmetric Metal-Organic Frameworks Featuring a 2D -> 3D Parallel/Parallel Inclined Subpolycatenation. <i>Crystal Growth and Design</i> , 2013 , 13, 3381-3388	3.5	22
52	Two dimethoxyphenylamine-substituted carbazole derivatives as hole-transporting materials for efficient inorganic-organic hybrid perovskite solar cells. <i>Dyes and Pigments</i> , 2017 , 146, 589-595	4.6	22
51	Trimetal-based N-doped carbon nanotubes arrays on Ni foams as self-supported electrodes for hydrogen/oxygen evolution reactions and water splitting. <i>Journal of Power Sources</i> , 2020 , 480, 228866	8.9	22
50	3-Layer conductive metal-organic nanosheets as electrocatalysts to enable an ultralow detection limit of HO. <i>Nanoscale</i> , 2019 , 11, 5058-5063	7.7	17
49	Promising alkoxy-wrapped porphyrins with novel push-pull moieties for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14883-14889	13	16
48	One neutral metal-organic framework with an unusual dmp topology for adsorption of dyes. <i>Polyhedron</i> , 2017 , 121, 231-235	2.7	15
47	Conductive MOFs as bifunctional oxygen electrocatalysts for all-solid-state Zn-air batteries. <i>Chemical Communications</i> , 2020 , 56, 13615-13618	5.8	15
46	The synthesis, structure and third-order nonlinear optical effect of a new 2D cluster polymer based on a [WS ₄ Cu ₄] ²⁺ SBU and 1,2-di(pyridin-4-yl)ethane. <i>CrystEngComm</i> , 2013 , 15, 7354	3.3	14
45	Strontium Chloride-Passivated Perovskite Thin Films for Efficient Solar Cells with Power Conversion Efficiency over 21% and Superior Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3661-3669	9.5	14
44	Nano-Hydroxyapatite Encapsulated inside an Anion Exchanger for Efficient Defluoridation of Neutral and Weakly Alkaline Water. <i>ACS ES&T Engineering</i> , 2021 , 1, 46-54		14
43	Structure-performance relationship on the asymmetric methoxy substituents of spiro-OMeTAD for perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 176, 318-323	6.4	14
42	A trilaminar cobalt coordination network with trinuclear and uninuclear building units. <i>Mendeleev Communications</i> , 2014 , 24, 180-181	1.9	12
41	Chiral crystallization and optical properties of three metal complexes based on two non-centrosymmetric tripodal ligands. <i>Dalton Transactions</i> , 2015 , 44, 5818-25	4.3	12
40	Construction of a series of metal-organic frameworks with a neutral tetradentate ligand and rigid carboxylate co-ligands. <i>CrystEngComm</i> , 2012 , 14, 8274	3.3	12
39	Improvement of dye-sensitized solar cells performance through introducing different heterocyclic groups to triarylamine dyes. <i>RSC Advances</i> , 2015 , 5, 3720-3727	3.7	11
38	Improvement of photovoltaic performance of DSSCs by modifying panchromatic zinc porphyrin dyes with heterocyclic units. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20841-20848	13	11
37	Syntheses, characterization, and properties of five coordination compounds based on the ligand tetrakis(4-pyridyloxymethylene)methane. <i>CrystEngComm</i> , 2014 , 16, 3917-3925	3.3	10
36	Efficient air-stable perovskite solar cells with a (FAI)(MAI)(MABr)(PbI)(PbBr) active layer fabricated a vacuum flash-assisted method under RH > 50%. <i>RSC Advances</i> , 2019 , 9, 10148-10154	3.7	9

35	Electric response of a metal-molecule-metal junction to laser pulse by solving hierarchical equations of motion. <i>Journal of Chemical Physics</i> , 2015 , 142, 084705	3.9	9
34	Application of WCuB-based secondary building units in functional metalorganic frameworks. <i>CrystEngComm</i> , 2013 , 15, 9265	3.3	9
33	Chiral four-fold interpenetrating 2D cadmium networks based on two achiral ligands. <i>Mendeleev Communications</i> , 2015 , 25, 65-66	1.9	9
32	Selectively sensing and dye adsorption properties of one Zn(II) architecture based on a rigid biphenyltetracarboxylate ligand. <i>Journal of Solid State Chemistry</i> , 2020 , 284, 121216	3.3	8
31	Architectures and DFT calculations of polyrotaxane MOFs with nanoscale macrocycles. <i>Dalton Transactions</i> , 2016 , 45, 3334-9	4.3	8
30	A three-dimensional non-interpenetrated porous metalorganic framework based on cationic 1-D chains. <i>Inorganic Chemistry Communication</i> , 2014 , 40, 148-150	3.1	8
29	A pair of 3D enantiotopic zinc(ii) complexes based on two asymmetric achiral ligands. <i>Dalton Transactions</i> , 2017 , 46, 14779-14784	4.3	7
28	Novel MOF-derived hollow CoFe alloy coupled with N-doped Ketjen Black as boosted bifunctional oxygen catalysts for Znair batteries. <i>Chemical Engineering Journal</i> , 2022 , 427, 131614	14.7	7
27	Synthesis and crystal structure of trinuclear zinc coordination polymer based on a triangle flexible carboxylic ligand. <i>Inorganic Chemistry Communication</i> , 2013 , 27, 88-91	3.1	6
26	Synthesis, aggregation-induced emission and application as chemosensor for explosives of a 1,10-phenanthroline derivative and its rhenium(I) carbonyl complex having triphenylamino and thienyl donors. <i>Inorganic Chemistry Communication</i> , 2017 , 84, 15-19	3.1	6
25	Ultrathin 2D catalysts with N-coordinated single Co atom outside Co cluster for highly efficient Zn-air battery. <i>Chemical Engineering Journal</i> , 2021 , 421, 129719	14.7	6
24	Facile synthesis of Co, N enriched carbon nanotube and active site identifications for bifunctional oxygen reduction and evolution catalysis. <i>Energy Storage Materials</i> , 2021 , 43, 365-374	19.4	6
23	Luminescent and porous zinc complex with 2D -> 3D parallel polycatenation based on a new rigid V-shaped pyridyl ligand. <i>Inorganic Chemistry Communication</i> , 2014 , 46, 285-288	3.1	5
22	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	5.3	5
21	D-D-EA organic dye containing rhodanine-3-acetic acid moiety for dye-sensitized solar cells. <i>Mendeleev Communications</i> , 2016 , 26, 288-290	1.9	5
20	Rh particles in N-doped porous carbon materials derived from ZIF-8 as an efficient bifunctional electrocatalyst for the ORR and HER.. <i>RSC Advances</i> , 2021 , 11, 13906-13911	3.7	4
19	Two isostructural Ni/Co(II) MOFs based on nitrogen heterocyclic ligands and their derived carbon materials for HER performance. <i>Journal of Molecular Structure</i> , 2022 , 1252, 132184	3.4	3
18	Hydrogen evolution reaction of one 2D cobalt coordination polymer with coordinated sulfate ion. <i>Journal of Solid State Chemistry</i> , 2021 , 299, 122191	3.3	3

17	Implanted cobalt ions in two zinc-based frameworks: Improved electrocatalyst for hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 427, 130952	14.7	3
16	MOF-derived CoNi,CoO,NiO@N-C bifunctional oxygen electrocatalysts for liquid and all-solid-state Zn-air batteries. <i>Nanoscale</i> , 2021 , 13, 17655-17662	7.7	3
15	Simulations on photovoltaic conversion in perovskite solar cells by solving hierarchical equations of motion. <i>AIP Advances</i> , 2019 , 9, 055322	1.5	2
14	Hydrothermal syntheses, coordination isomerism and UV-VIS absorption of CoII and NiII complexes with mixed ligands. <i>Mendeleev Communications</i> , 2015 , 25, 296-298	1.9	2
13	Three Co complexes based on 1-(imidazol-1-yl)-4-(imidazol-4-yl)benzene: Syntheses, structures and stability property. <i>Polyhedron</i> , 2015 , 90, 28-33	2.7	2
12	Luminescent 2D->3D porous zinc complex based on bis[4-(pyridin-4-yl)phenyl]amine and benzene-p-dicarboxylic acid. <i>Mendeleev Communications</i> , 2016 , 26, 415-417	1.9	2
11	A novel and efficient method of MOF-derived electrocatalyst for HER performance through doping organic ligands. <i>Materials Chemistry Frontiers</i> ,	7.8	2
10	A luminescent 2D -> 3D Cd complex via π interaction based on bis(4-(1H-imidazol-1-yl)phenyl)amine and 1,3-dicarboxybenzene acid. <i>Crystallography Reports</i> , 2017 , 62, 923-927	0.6	1
9	The effect of optical properties on photovoltaic performance in dye-sensitized TiO ₂ nanocrystalline solar cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 3948-54	1.3	1
8	Luminescent sensing for amino acids with a Cd-MOF based on 4-(1H-tetrazol-5-yl)-biphenyl-4-carboxylic acid. <i>Journal of Coordination Chemistry</i> , 2021 , 74, 630-636	1.6	1
7	Energetic MOF-derived cobalt/iron nitrides embedded into N, S-codoped carbon nanotubes as superior bifunctional oxygen catalysts for Zn air batteries. <i>Applied Surface Science</i> , 2021 , 569, 151030	6.7	1
6	Ion Channel Engineering in Super Thick Cathodes toward High-Energy-Density Li Batteries. <i>Energy & Fuels</i> , 2022 , 36, 4087-4093	4.1	1
5	Improved the Electrocatalytic Hydrogen Evolution Performances of Co-MOF Derivatives Through Introducing Zinc Ions by Two Ways. <i>Energy & Fuels</i> , 2022 , 36, 5843-5851	4.1	1
4	A multifunctional pseudo-polyrotaxane coordination polymer based on the trinuclear cluster [Co ₃ (COO) ₄ (OH) ₂]: Synthesis, structure and properties. <i>Polyhedron</i> , 2020 , 186, 114611	2.7	0
3	Synthesis and structure of a 2D -> 3D framework with coexistence of hydrogen bonds and polythreading character. <i>Crystallography Reports</i> , 2015 , 60, 1106-1110	0.6	0
2	Synthesis and structure of a cobalt coordination polymer based on 2,8-di(pyridin-4-yl)dibenzo[thiophene and 4,4-dicarboxydiphenylsulfone. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2016 , 71, 311-315	1	
1	Two Co/Ni(II)-Based Coordination Polymers for Degradation of Dyes. <i>Crystallography Reports</i> , 2021 , 66, 1262-1267	0.6	