

Zhehao Huang

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,915
citations

136950

32
h-index

123424

61
g-index

74
all docs

74
docs citations

74
times ranked

5001
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust and conductive two-dimensional metal-organic frameworks with exceptionally high volumetric and areal capacitance. <i>Nature Energy</i> , 2018, 3, 30-36.	39.5	786
2	Stabilization of Hexaaminobenzene in a 2D Conductive Metal-Organic Framework for High Power Sodium Storage. <i>Journal of the American Chemical Society</i> , 2018, 140, 10315-10323.	13.7	351
3	[Ti ₈ Zr ₂ O ₁₂ (COO) ₁₆] Cluster: An Ideal Inorganic Building Unit for Photoactive Metal-Organic Frameworks. <i>ACS Central Science</i> , 2018, 4, 105-111.	11.3	204
4	Synthetic Routes for a 2D Semiconductive Copper Hexahydroxybenzene Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 14533-14537.	13.7	201
5	A Porphyrinic Zirconium Metal-Organic Framework for Oxygen Reduction Reaction: Tailoring the Spacing between Active-Sites through Chain-Based Inorganic Building Units. <i>Journal of the American Chemical Society</i> , 2020, 142, 15386-15395.	13.7	139
6	Electrocatalytic Hydrogen Evolution from a Cobaloxime-Based Metal-Organic Framework Thin Film. <i>Journal of the American Chemical Society</i> , 2019, 141, 15942-15950.	13.7	135
7	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. <i>Nature Materials</i> , 2022, 21, 673-680.	27.5	123
8	2D Copper Tetrahydroxyquinone Conductive Metal-Organic Framework for Selective CO ₂ Electro catalysis at Low Overpotentials. <i>Advanced Materials</i> , 2021, 33, e2004393.	21.0	120
9	A Fast and Scalable Approach for Synthesis of Hierarchical Porous Zeolitic Imidazolate Frameworks and One-Pot Encapsulation of Target Molecules. <i>Inorganic Chemistry</i> , 2017, 56, 9139-9146.	4.0	119
10	Kinetically Controlled Reticular Assembly of a Chemically Stable Mesoporous Ni(II)-Pyrazolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 13491-13499.	13.7	97
11	Rapid desolvation-triggered domino lattice rearrangement in a metal-organic framework. <i>Nature Chemistry</i> , 2020, 12, 90-97.	13.6	93
12	3D electron diffraction as an important technique for structure elucidation of metal-organic frameworks and covalent organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213583.	18.8	86
13	Optically Active Nanostructured ZnO Films. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15170-15175.	13.8	82
14	Silica Biomineralization via the Self-Assembly of Helical Biomolecules. <i>Advanced Materials</i> , 2015, 27, 479-497.	21.0	82
15	A Porous Cobalt Tetrakisphosphonate Metal-Organic Framework: Accurate Structure and Guest Molecule Location Determined by Continuous-Rotation Electron Diffraction. <i>Chemistry - A European Journal</i> , 2018, 24, 17429-17433.	3.3	73
16	Ligand-Directed Conformational Control over Porphyrinic Zirconium Metal-Organic Frameworks for Size-Selective Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12129-12137.	13.7	73
17	Probing the Evolution of Palladium Species in Pd@MOF Catalysts during the Heck Coupling Reaction: An Operando X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 8206-8217.	13.7	70
18	Phase dependent encapsulation and release profile of ZIF-based biocomposites. <i>Chemical Science</i> , 2020, 11, 3397-3404.	7.4	70

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19	A Tunable Multivariate Metal-Organic Framework as a Platform for Designing Photocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 6333-6338.	13.7	69
20	Continuous Variation of Lattice Dimensions and Pore Sizes in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 4732-4738.	13.7	65
21	Growing single crystals of two-dimensional covalent organic frameworks enabled by intermediate tracing study. <i>Nature Communications</i> , 2022, 13, 1370.	12.8	60
22	Quasi-single-crystalline CoO hexagrams with abundant defects for highly efficient electrocatalytic water oxidation. <i>Chemical Science</i> , 2018, 9, 6961-6968.	7.4	56
23	Three-dimensional electron diffraction for porous crystalline materials: structural determination and beyond. <i>Chemical Science</i> , 2021, 12, 1206-1219.	7.4	44
24	Novel insight into the epitaxial growth mechanism of six-fold symmetrical β -Co(OH) ₂ /Co(OH)F hierarchical hexagrams and their water oxidation activity. <i>Electrochimica Acta</i> , 2018, 271, 526-536.	5.2	42
25	Growth of Mesoporous Silica Film with Vertical Channels on Substrate Using Gemini Surfactants. <i>Chemistry of Materials</i> , 2011, 23, 3583-3586.	6.7	41
26	High Thermopower in a Zn-Based 3D Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 20531-20535.	13.7	40
27	Fabrication of Mesostructured Silica Materials through Co-Structure-Directing Route. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 617-632.	3.2	39
28	A two-dimensional multi-shelled metal-organic framework and its derived bimetallic N-doped porous carbon for electrocatalytic oxygen reduction. <i>Chemical Communications</i> , 2019, 55, 14805-14808.	4.1	39
29	Valence-Dependent Electrical Conductivity in a 3D Tetrahydroxyquinone-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 21243-21248.	13.7	39
30	Synthesis and Crystal-Phase Engineering of Mesoporous Palladium-Boron Alloy Nanoparticles. <i>ACS Central Science</i> , 2020, 6, 2347-2353.	11.3	36
31	Mesostructured chitosan-silica hybrid as a biodegradable carrier for a pH-responsive drug delivery system. <i>Dalton Transactions</i> , 2012, 41, 5038.	3.3	34
32	Can 3D electron diffraction provide accurate atomic structures of metal-organic frameworks?. <i>Faraday Discussions</i> , 2021, 225, 118-132.	3.2	34
33	Coordination Modulation Method To Prepare New Metal-Organic Framework-Based CO-Releasing Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31158-31167.	8.0	31
34	High-Throughput Electron Diffraction Reveals a Hidden Novel Metal-Organic Framework for Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11391-11397.	13.8	29
35	Nanostructured Conductive Metal Organic Frameworks for Sustainable Low Charge Overpotentials in Li-Air Batteries. <i>Small</i> , 2022, 18, e2102902.	10.0	22
36	Optically active chiral Ag nanowires. <i>Science China Materials</i> , 2015, 58, 441-446.	6.3	19

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37	Rigid bolaform surfactant templated mesoporous silicon nanofibers as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19855-19860.	10.3	18
38	Hollow titania spheres loaded with noble metal nanoparticles for photocatalytic water oxidation. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 147-150.	4.4	18
39	Control of Chiral Nanostructures by Self-Assembly of Designed Amphiphilic Peptides and Silica Biomaterialization. <i>Chemistry - A European Journal</i> , 2014, 20, 17068-17076.	3.3	15
40	3D-3D topotactic transformation in aluminophosphate molecular sieves and its implication in new zeolite structure generation. <i>Nature Communications</i> , 2020, 11, 3762.	12.8	14
41	On the completeness of three-dimensional electron diffraction data for structural analysis of metal-organic frameworks. <i>Faraday Discussions</i> , 2021, 231, 66-80.	3.2	14
42	Hard-templating of chiral TiO ₂ nanofibres with electron transition-based optical activity. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 054206.	6.1	13
43	Two-Dimensional Metal-Organic Frameworks with Unique Oriented Layers for Oxygen Reduction Reaction: Tailoring the Activity through Exposed Crystal Facets. <i>CCS Chemistry</i> , 2022, 4, 1633-1642.	7.8	13
44	Inherent mass transfer engineering of a Co, N co-doped carbon material towards oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2021, 58, 391-396.	12.9	12
45	Probing Molecular Motions in Metal-Organic Frameworks by Three-Dimensional Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2021, 143, 17947-17952.	13.7	12
46	Metal-hydrogen- π -bonded organic frameworks. <i>Dalton Transactions</i> , 2022, 51, 1927-1935.	3.3	12
47	Combustion and performance of heavy-duty diesel engines fuelled with dimethyl ether. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008, 222, 1691-1703.	1.9	10
48	Magneto-structural correlations of novel kagomé-type metal organic frameworks. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6692-6697.	5.5	10
49	Properties of BaAl ₂ O ₄ in the Simultaneous Removal of Soot and NO _x . <i>Chemical Engineering and Technology</i> , 2007, 30, 1426-1433.	1.5	9
50	Design of Amphiphilic Peptide Geometry towards Biomimetic Self-Assembly of Chiral Mesoporous Silica. <i>Chemistry - A European Journal</i> , 2014, 20, 3273-3276.	3.3	9
51	The Effect of Oxygen Concentration on the Reaction of NO _x with Soot Over BaAl ₂ O ₄ . <i>Chemical Engineering and Technology</i> , 2008, 31, 138-142.	1.5	8
52	Controllable synthesis of silica hollow spheres by vesicle templating of silicone surfactants. <i>Journal of Materials Science</i> , 2013, 48, 1890-1898.	3.7	8
53	Structural roles of amphiphilic peptide tails on silica biomaterialization. <i>Dalton Transactions</i> , 2014, 43, 16169-16172.	3.3	8
54	Three-Dimensional Electron Diffraction for Structural Analysis of Beam-Sensitive Metal-Organic Frameworks. <i>Crystals</i> , 2021, 11, 263.	2.2	8

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55	Fabrication of Chiral Materials via Self-Assembly and Biomineralization of Peptides. <i>Chemical Record</i> , 2015, 15, 665-674.	5.8	7
56	High-Throughput Electron Diffraction Reveals a Hidden Novel Metal-Organic Framework for Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 11492-11498.	2.0	6
57	Synthesis of Zeolite/Mesoporous Silica Composite Microspheres by Microemulsion Method. <i>Acta Chimica Sinica</i> , 2012, 70, 2419.	1.4	6
58	Amphiphilic ABC triblock terpolymer templated large-pore mesoporous silicas. <i>Materials Letters</i> , 2015, 141, 176-179.	2.6	5
59	Three-dimensional electron diffraction: a powerful structural characterization technique for crystal engineering. <i>CrystEngComm</i> , 2022, 24, 2719-2728.	2.6	5
60	Characteristics of Oxidation of Diesel Particulate Matter over a Spinel Type $\text{Cu}_{0.95}\text{K}_{0.05}\text{Fe}_2\text{O}_4$ Catalyst. <i>Chemical Engineering and Technology</i> , 2008, 31, 1433-1437.	1.5	4
61	Fe Single-atom Sites in Two-Dimensional Nitrogen-doped Porous Carbon for Electrocatalytic Oxygen Reduction. <i>ChemCatChem</i> , 2022, 14, .	3.7	3
62	How to get maximum structure information from anisotropic displacement parameters obtained by three-dimensional electron diffraction: an experimental study on metal-organic frameworks. <i>IUCr</i> , 2022, 9, 480-491.	2.2	2
63	Low Dose Structural Analysis of Fragile Materials by Three-Dimensional Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2021, 27, 3152-3153.	0.4	0