Hua-Bin Zhang

List of Publications by Year in Descending Order

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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.

99	9,048	47	95
papers	citations	h-index	g-index
102	11,225	12.3 avg, IF	6.71
ext. papers	ext. citations		L-index

#	Paper	IF	Citations
99	Toward solar-driven carbon recycling. <i>Joule</i> , 2022 ,	27.8	17
98	Single-atom catalysts for photocatalytic energy conversion. <i>Joule</i> , 2022 , 6, 92-133	27.8	14
97	Hollow MoC/NC sphere for electromagnetic wave attenuation: direct observation of interfacial polarization on nanoscale hetero-interfaces. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1290-1298	13	6
96	Synergy between Confined Cobalt Centers and Oxygen Defects on Fe2O3 Platelets for Efficient Photocatalytic CO2 Reduction. <i>Solar Rrl</i> , 2022 , 6, 2100833	7.1	1
95	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion <i>Advanced Materials</i> , 2022 , e2200180	24	18
94	Ultrahigh Density of Atomic CoFe-Electron Synergy in Noncontinuous Carbon Matrix for Highly Efficient Magnetic Wave Adsorption <i>Nano-Micro Letters</i> , 2022 , 14, 96	19.5	3
93	Exposing unsaturated Cu-O sites in nanoscale Cu-MOF for efficient electrocatalytic hydrogen evolution. <i>Science Advances</i> , 2021 , 7,	14.3	53
92	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16687-16692	16.4	21
91	Synthesis of a BoronImidazolate Framework Nanosheet with Dimer Copper Units for CO2 Electroreduction to Ethylene. <i>Angewandte Chemie</i> , 2021 , 133, 16823-16828	3.6	2
90	Engineering the Coordination Sphere of Isolated Active Sites to Explore the Intrinsic Activity in Single-Atom Catalysts. <i>Nano-Micro Letters</i> , 2021 , 13, 136	19.5	28
89	Design of Hybrid Zeolitic Imidazolate Framework-Derived Material with C-Mo-S Triatomic Coordination for Electrochemical Oxygen Reduction. <i>Small</i> , 2021 , 17, e2003256	11	7
88	Atomically defined Co on two-dimensional TiO2 nanosheet for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 420, 127681	14.7	20
87	Atomically Dispersed Reactive Centers for Electrocatalytic CO Reduction and Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13177-13196	16.4	60
86	Atomically Dispersed Reactive Centers for Electrocatalytic CO2 Reduction and Water Splitting. <i>Angewandte Chemie</i> , 2021 , 133, 13285-13304	3.6	10
85	Highly efficient electrocatalysts for overall water splitting: mesoporous CoS/MoS with hetero-interfaces. <i>Chemical Communications</i> , 2021 , 57, 4847-4850	5.8	14
84	A hybrid zeolitic imidazolate framework-derived ZnO/ZnMoO heterostructure for electrochemical hydrogen production. <i>Dalton Transactions</i> , 2021 , 50, 11365-11369	4.3	1
83	Vertically Aligned MoS with In-Plane Selectively Cleaved Mo-S Bond for Hydrogen Production. <i>Nano Letters</i> , 2021 , 21, 1848-1855	11.5	24

(2018-2021)

82	Manipulating the Local Coordination and Electronic Structures for Efficient Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2021 , 33, e2103004	24	30
81	Recent Advances on Transition Metal Dichalcogenides for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2021 , 33, e2008376	24	24
80	Asymmetric metal [®] organic frameworks with double helices for enantioselective recognition. <i>CrystEngComm</i> , 2021 , 23, 4748-4751	3.3	O
79	Isolated Cobalt Centers on WO Nanowires Perform as a Reaction Switch for Efficient CO Photoreduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2173-2177	16.4	74
78	Implanting Isolated Ru Atoms into Edge-Rich Carbon Matrix for Efficient Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2020 , 10, 2000882	21.8	70
77	Emerging Multifunctional Single-Atom Catalysts/Nanozymes. ACS Central Science, 2020 , 6, 1288-1301	16.8	76
76	Subnanometer iron clusters confined in a porous carbon matrix for highly efficient zinclir batteries. <i>Nanoscale Horizons</i> , 2020 , 5, 359-365	10.8	18
75	Co9S8 integrated into nitrogen/sulfur dual-doped carbon nanofibers as an efficient oxygen bifunctional electrocatalyst for ZnBir batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1093-1098	5.8	12
74	Direct probing of atomically dispersed Ru species over multi-edged TiO for highly efficient photocatalytic hydrogen evolution. <i>Science Advances</i> , 2020 , 6,	14.3	62
73	Hierarchical MoS Hollow Architectures with Abundant Mo Vacancies for Efficient Sodium Storage. <i>ACS Nano</i> , 2019 , 13, 5533-5540	16.7	134
72	HZIF-based hybrids for electrochemical energy applications. <i>Nanoscale</i> , 2019 , 11, 15763-15769	7.7	11
71	Unveiling the Activity Origin of Electrocatalytic Oxygen Evolution over Isolated Ni Atoms Supported on a N-Doped Carbon Matrix. <i>Advanced Materials</i> , 2019 , 31, e1904548	24	151
70	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. <i>Energy and Environmental Science</i> , 2019 , 12, 3348-3355	35.4	147
69	Ultrasmall MoO Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1804883	24	82
68	Interfacing Photosynthetic Membrane Protein with Mesoporous WO Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018 , 14, e1800104	11	11
67	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018 , 4, eaao6657	14.3	344
66	Interface engineered in situ anchoring of CoS nanoparticles into a multiple doped carbon matrix: highly efficient zinc-air batteries. <i>Nanoscale</i> , 2018 , 10, 2649-2657	7.7	53
65	Surface step decoration of isolated atom as electron pumping: Atomic-level insights into visible-light hydrogen evolution. <i>Nano Energy</i> , 2018 , 45, 109-117	17.1	80

64	Boosting electrocatalytic hydrogen evolution by plasmon-driven hot-electron excitation. <i>Nanoscale</i> , 2018 , 10, 2236-2241	7.7	36
63	Photo-enhanced lithium oxygen batteries with defective titanium oxide as both photo-anode and air electrode. <i>Energy Storage Materials</i> , 2018 , 13, 49-56	19.4	49
62	Ultra-small freestanding amorphous molybdenum sulfide colloidal nanodots for highly efficient photocatalytic hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 446-453	21.8	45
61	Single-Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1701343	21.8	485
60	A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2018 , 11, 1980-1984	35.4	173
59	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. <i>ACS Applied Materials & Empty Interfaces</i> , 2018 , 10, 408-416	9.5	118
58	Surface Modulation of Hierarchical MoS2 Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1807086	15.6	237
57	Integrating the g-CN Nanosheet with B-H Bonding Decorated Metal-Organic Framework for CO Activation and Photoreduction. <i>ACS Nano</i> , 2018 , 12, 5333-5340	16.7	186
56	Double defects modified carbon nitride nanosheets with enhanced photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17471-17476	3.6	20
55	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. <i>Energy and Environmental Science</i> , 2018 , 11, 2348-2352	35.4	203
54	Interface Designing over WS2/W2C for Enhanced Hydrogen Evolution Catalysis. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3377-3384	6.1	34
53	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO2 reduction under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 141-149	21.8	152
52	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie</i> , 2017 , 129, 5662-5666	3.6	16
51	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5570-5574	16.4	73
50	Rāktitelbild: Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). <i>Angewandte Chemie</i> , 2017 , 129, 5724-5724	3.6	
49	Metal-Organic-Framework-Based Materials as Platforms for Renewable Energy and Environmental Applications. <i>Joule</i> , 2017 , 1, 77-107	27.8	524
48	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2016 , 28, 158-163	17.1	70
47	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. NPG Asia Materials, 2016 , 8, e293	- 1 033	89

(2015-2016)

46	Drastic Enhancement of Photocatalytic Activities over Phosphoric Acid Protonated Porous g-C3 N4 Nanosheets under Visible Light. <i>Small</i> , 2016 , 12, 4431-9	11	182
45	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal © rganic Framework. <i>Angewandte Chemie</i> , 2016 , 128, 14522-14526	3.6	124
44	Surface-Plasmon-Enhanced Photodriven CO2 Reduction Catalyzed by Metal-Organic-Framework-Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. <i>Advanced Materials</i> , 2016 , 28, 3703-10	24	227
43	Cage-Type Highly Graphitic Porous Carbon-Co3O4 Polyhedron as the Cathode of Lithium-Oxygen Batteries. <i>ACS Applied Materials & ACS ACS Applied Materials & ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	89
42	Active Sites Implanted Carbon Cages in Core-Shell Architecture: Highly Active and Durable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2016 , 10, 684-94	16.7	371
41	Tunable luminescence and white light emission of mixed lanthanideBrganic frameworks based on polycarboxylate ligands. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3364-3374	7.1	99
40	A CoDEmbedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for COEhhotoreduction. <i>Nanoscale</i> , 2016 , 8, 6712-20	7.7	77
39	Engineering coordination polymers for photocatalysis. <i>Nano Energy</i> , 2016 , 22, 149-168	17.1	197
38	Mesoporous palladiumDopper bimetallic electrodes for selective electrocatalytic reduction of aqueous CO2 to CO. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4776-4782	13	93
37	A Highly Energetic N-Rich Metal-Organic Framework as a New High-Energy-Density Material. <i>Chemistry - A European Journal</i> , 2016 , 22, 1141-5	4.8	47
36	Enhanced Photocatalytic Oxidation of Isopropanol by [email[protected]2 CoreBhell Structure with Ultrathin Anatase Porous Shell: Toxic Intermediate Control. <i>Industrial & Discrete Manager Chemistry Research</i> , 2016 , 55, 8096-8103	3.9	42
35	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9128-36	16.4	269
34	Targeted Synthesis of 2H- and 1T-Phase MoS Monolayers for Catalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2016 , 28, 10033-10041	24	415
33	Improved Photocatalytic H Evolution over G-Carbon Nitride with Enhanced In-Plane Ordering. <i>Small</i> , 2016 , 12, 6160-6166	11	41
32	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14310-14314	16.4	450
31	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct pl Homojunctions for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2016 , 26, 6822-6829	15.6	429
30	An Amine-Functionalized Iron(III) Metal-Organic Framework as Efficient Visible-Light Photocatalyst for Cr(VI) Reduction. <i>Advanced Science</i> , 2015 , 2, 1500006	13.6	289
29	Asymmetric induction in homochiral MOFs: from interweaving double helices to single helices. <i>Chemical Communications</i> , 2015 , 51, 16331-3	5.8	30

28	Conversion of Carbon Dioxide by Methane Reforming under Visible-Light Irradiation: Surface-Plasmon-Mediated Nonpolar Molecule Activation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11545-9	16.4	129
27	Electrostatic Self-Assembly of Nanosized Carbon Nitride Nanosheet onto a Zirconium Metal®rganic Framework for Enhanced Photocatalytic CO2 Reduction. <i>Advanced Functional Materials</i> , 2015 , 25, 5360-5367	15.6	344
26	Conversion of Carbon Dioxide by Methane Reforming under Visible-Light Irradiation: Surface-Plasmon-Mediated Nonpolar Molecule Activation. <i>Angewandte Chemie</i> , 2015 , 127, 11707-1171	1 ^{3.6}	18
25	Interpreted Recognition Process: A Highly Sensitive and Selective Luminescence Chemosensor. <i>Chemistry - A European Journal</i> , 2015 , 21, 11767-72	4.8	18
24	Hierarchical nanowire arrays based on carbon nanotubes and Co3O4 decorated ZnO for enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13731-13737	13	45
23	Encapsulation of an interpenetrated diamondoid inorganic building block in a metal-organic framework. <i>Chemistry - A European Journal</i> , 2015 , 21, 4931-4	4.8	13
22	Absolute helicity induction: chiral information transfer from metal centre to the framework. <i>CrystEngComm</i> , 2014 , 16, 1245	3.3	16
21	A highly luminescent chameleon: fine-tuned emission trajectory and controllable energy transfer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1367	7.1	85
20	An alternative strategy to construct Fe(II)-based MOFs with multifarious structures and magnetic behaviors. <i>CrystEngComm</i> , 2014 , 16, 9208-9215	3.3	26
19	Two luminescent Cu(I) coordination polymers based on the 1-(4-tetrazolephenyl)imidazole ligand for sensing of nitrobenzene. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 389	6.8	42
18	Acentric and chiral heterometallic inorganic@rganic hybrid frameworks mediated by alkali or alkaline earth ions: synthesis and NLO properties. <i>CrystEngComm</i> , 2014 , 16, 4059	3.3	24
17	Digital controlled luminescent emission via patterned deposition of lanthanide coordination compounds. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 12594-9	9.5	11
16	Tuning Photoluminescence Emission of a Cadmium Drganic Framework by Excitation. <i>ChemPlusChem</i> , 2014 , 79, 1080-1082	2.8	6
15	An effective approach for constructing acentric heterometallic-organic framework with catalytic activity. <i>Inorganic Chemistry Communication</i> , 2014 , 43, 27-30	3.1	6
14	Synthesis, Structure, and Magnetic Study of Two Tridecanuclear Planar Cobalt Clusters with Unique Core Geometries. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 5534-5540	2.3	9
13	Interweaving of two enantiomorphic 3D Cd(II)/K(I) coordination polymers with homochiral unequal triple concentric helical chains. <i>CrystEngComm</i> , 2013 , 15, 5201	3.3	19
12	Unusual [CdII3O2(CO2)8] clusters as SBUs for the construction of a new pcu-type metal-organic framework. <i>Inorganic Chemistry Communication</i> , 2013 , 38, 11-13	3.1	7
11	An inorganic-organic composite framework with an unprecedented 3D heterometallic inorganic connectivity and white-light emission. <i>Chemical Communications</i> , 2013 , 49, 2231-3	5.8	49

LIST OF PUBLICATIONS

10	A multi-metal-cluster MOF with Cu4I4 and Cu6S6 as functional groups exhibiting dual emission with both thermochromic and near-IR character. <i>Chemical Science</i> , 2013 , 4, 1484	9.4	178	
9	Full-colour fluorescent materials based on mixed-lanthanide(III) metalBrganic complexes with high-efficiency white light emission. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 888-891	7.1	132	
8	An unusual highly connected 3D net with hydrophilic pore surface. CrystEngComm, 2013, 15, 3016	3.3	13	
7	An effective method for the synthesis of 3D inorganic Ln(III)K(I) sulfate open frameworks with unusually high thermal stability: in situ generation of sulfate anions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6831		14	
6	Highly luminescent and thermostable lanthanide-carboxylate framework materials with helical configurations. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21210		93	
5	Two enantiomorphic 3D Zn(II)Barboxylate MOFs with double helical structures serving as a chiral source induced by hydrogen bonding. <i>CrystEngComm</i> , 2012 , 14, 4165	3.3	23	
4	Synthesis, structures and luminescent properties of new Pb(II)/M(I) (M = K, Rb and Cs) frameworks based on dicarboxylic acids: a novel icosahedral Pb6-M6 SBU. <i>CrystEngComm</i> , 2012 , 14, 936-944	3.3	27	
3	Synthesis, Structures, and Magnetic Properties of Three 3D Coordination Polymers Based on M4O4 Cubanes (M = MnII, FeII, CoII). <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4029-4035	2.3	21	
2	Operando Monitoring and Deciphering the Structural Evolution in Oxygen Evolution Electrocatalysis. <i>Advanced Energy Materials</i> ,2103383	21.8	17	
1	Kinetically accelerated and high-mass loaded lithium storage enabled by atomic iron embedded carbon nanofibers. <i>Nano Research</i> ,1	10	О	