

Hua-Bin Zhang

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99
papers

9,048
citations

47
h-index

95
g-index

102
ext. papers

11,225
ext. citations

12.3
avg, IF

6.71
L-index

#	Paper	IF	Citations
99	Metal-Organic-Framework-Based Materials as Platforms for Renewable Energy and Environmental Applications. <i>Joule</i> , 2017 , 1, 77-107	27.8	524
98	Single-Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1701343	21.8	485
97	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
96	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2016 , 26, 6822-6829	15.6	429
95	Targeted Synthesis of 2H- and 1T-Phase MoS Monolayers for Catalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2016 , 28, 10033-10041	24	415
94	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
93	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
92	Electrostatic Self-Assembly of Nanosized Carbon Nitride Nanosheet onto a Zirconium Metal-Organic Framework for Enhanced Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2015 , 25, 5360-5367	15.6	344
91	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
90	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
89	Surface Modulation of Hierarchical MoS ₂ Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1807086	15.6	237
88	Surface-Plasmon-Enhanced Photodriven CO ₂ Reduction Catalyzed by Metal-Organic-Framework-Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. <i>Advanced Materials</i> , 2016 , 28, 3703-10	24	227
87	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
86	Engineering coordination polymers for photocatalysis. <i>Nano Energy</i> , 2016 , 22, 149-168	17.1	197
85	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
84	Drastic Enhancement of Photocatalytic Activities over Phosphoric Acid Protonated Porous g-C ₃ N ₄ Nanosheets under Visible Light. <i>Small</i> , 2016 , 12, 4431-9	11	182
83	A multi-metal-cluster MOF with Cu ₄ I ₄ and Cu ₆ S ₆ as functional groups exhibiting dual emission with both thermochromic and near-IR character. <i>Chemical Science</i> , 2013 , 4, 1484	9.4	178

82	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
81	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO ₂ reduction under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 141-149	21.8	152
80	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
79	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
78	Hierarchical MoS ₂ Hollow Architectures with Abundant Mo Vacancies for Efficient Sodium Storage. <i>ACS Nano</i> , 2019 , 13, 5533-5540	16.7	134
77	Full-colour fluorescent materials based on mixed-lanthanide(III) metal-organic complexes with high-efficiency white light emission. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 888-891	7.1	132
76	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
75	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie</i> , 2016 , 128, 14522-14526	3.6	124
74	Light-Enhanced Carbon Dioxide Activation and Conversion by Effective Plasmonic Coupling Effect of Pt and Au Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 408-416	9.5	118
73	Tunable luminescence and white light emission of mixed lanthanide-organic frameworks based on polycarboxylate ligands. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3364-3374	7.1	99
72	Mesoporous palladium-copper bimetallic electrodes for selective electrocatalytic reduction of aqueous CO ₂ to CO. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4776-4782	13	93
71	Highly luminescent and thermostable lanthanide-carboxylate framework materials with helical configurations. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21210		93
70	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. <i>NPG Asia Materials</i> , 2016 , 8, e293-e293	10.3	89
69	Cage-Type Highly Graphitic Porous Carbon-Co ₃ O ₄ Polyhedron as the Cathode of Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2796-804	9.5	89
68	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
67	Ultrasmall MoO ₃ Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1804883	24	82
66	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
65	A Co-Embedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CO ₂ photoreduction. <i>Nanoscale</i> , 2016 , 8, 6712-20	7.7	77

64	Emerging Multifunctional Single-Atom Catalysts/Nanozymes. <i>ACS Central Science</i> , 2020 , 6, 1288-1301	16.8	76
63	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
62	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5570-5574	16.4	73
61	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
60	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
59	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
58	Atomically Dispersed Reactive Centers for Electrocatalytic CO Reduction and Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13177-13196	16.4	60
57	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
56	Exposing unsaturated Cu-O sites in nanoscale Cu-MOF for efficient electrocatalytic hydrogen evolution. <i>Science Advances</i> , 2021 , 7,	14.3	53
55	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
54	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
53	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
52	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
51	Hierarchical nanowire arrays based on carbon nanotubes and Co ₃ O ₄ decorated ZnO for enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13731-13737	13	45
50	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
49	Enhanced Photocatalytic Oxidation of Isopropanol by [email[protected]] ₂ CoreShell Structure with Ultrathin Anatase Porous Shell: Toxic Intermediate Control. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8096-8103	3.9	42
48	Improved Photocatalytic H Evolution over G-Carbon Nitride with Enhanced In-Plane Ordering. <i>Small</i> , 2016 , 12, 6160-6166	11	41
47	Boosting electrocatalytic hydrogen evolution by plasmon-driven hot-electron excitation. <i>Nanoscale</i> , 2018 , 10, 2236-2241	7.7	36

46	Interface Designing over WS ₂ /W ₂ C for Enhanced Hydrogen Evolution Catalysis. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3377-3384	6.1	34
45	Asymmetric induction in homochiral MOFs: from interweaving double helices to single helices. <i>Chemical Communications</i> , 2015 , 51, 16331-3	5.8	30
44	Manipulating the Local Coordination and Electronic Structures for Efficient Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2021 , 33, e2103004	24	30
43	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
42	Synthesis, structures and luminescent properties of new Pb(II)/M(I) (M = K, Rb and Cs) frameworks based on dicarboxylic acids: a novel icosahedral Pb ₆ -M ₆ SBU. <i>CrystEngComm</i> , 2012 , 14, 936-944	3.3	27
41	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
40	Acentric and chiral heterometallic inorganic-organic hybrid frameworks mediated by alkali or alkaline earth ions: synthesis and NLO properties. <i>CrystEngComm</i> , 2014 , 16, 4059	3.3	24
39	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
38	Recent Advances on Transition Metal Dichalcogenides for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2021 , 33, e2008376	24	24
37	Two enantiomorphic 3D Zn(II)carboxylate MOFs with double helical structures serving as a chiral source induced by hydrogen bonding. <i>CrystEngComm</i> , 2012 , 14, 4165	3.3	23
36	Synthesis, Structures, and Magnetic Properties of Three 3D Coordination Polymers Based on M ₄ O ₄ Cubanes (M = MnII, FeII, CoII). <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4029-4035	2.3	21
35	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
34	Atomically defined Co on two-dimensional TiO ₂ nanosheet for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 420, 127681	14.7	20
33	Double defects modified carbon nitride nanosheets with enhanced photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17471-17476	3.6	20
32	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
31	Conversion of Carbon Dioxide by Methane Reforming under Visible-Light Irradiation: Surface-Plasmon-Mediated Nonpolar Molecule Activation. <i>Angewandte Chemie</i> , 2015 , 127, 11707-11711	3.6	18
30	Interpreted Recognition Process: A Highly Sensitive and Selective Luminescence Chemosensor. <i>Chemistry - A European Journal</i> , 2015 , 21, 11767-72	4.8	18
29	Subnanometer iron clusters confined in a porous carbon matrix for highly efficient zinc-air batteries. <i>Nanoscale Horizons</i> , 2020 , 5, 359-365	10.8	18

28	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. <i>Advanced Materials</i> , 2022 , e2200180	24	18
27	Toward solar-driven carbon recycling. <i>Joule</i> , 2022 ,	27.8	17
26	Operando Monitoring and Deciphering the Structural Evolution in Oxygen Evolution Electrocatalysis. <i>Advanced Energy Materials</i> , 2103383	21.8	17
25	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie</i> , 2017 , 129, 5662-5666	3.6	16
24	Absolute helicity induction: chiral information transfer from metal centre to the framework. <i>CrystEngComm</i> , 2014 , 16, 1245	3.3	16
23	An effective method for the synthesis of 3D inorganic Ln(III)X(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
22	Single-atom catalysts for photocatalytic energy conversion. <i>Joule</i> , 2022 , 6, 92-133	27.8	14
21	Highly efficient electrocatalysts for overall water splitting: mesoporous CoS/MoS with hetero-interfaces. <i>Chemical Communications</i> , 2021 , 57, 4847-4850	5.8	14
20	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
19	An unusual highly connected 3D net with hydrophilic pore surface. <i>CrystEngComm</i> , 2013 , 15, 3016	3.3	13
18	Co ₉ S ₈ integrated into nitrogen/sulfur dual-doped carbon nanofibers as an efficient oxygen bifunctional electrocatalyst for Zn air batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1093-1098	5.8	12
17	Interfacing Photosynthetic Membrane Protein with Mesoporous WO Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018 , 14, e1800104	11	11
16	HZIF-based hybrids for electrochemical energy applications. <i>Nanoscale</i> , 2019 , 11, 15763-15769	7.7	11
15	Digital controlled luminescent emission via patterned deposition of lanthanide coordination compounds. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12594-9	9.5	11
14	Atomically Dispersed Reactive Centers for Electrocatalytic CO ₂ Reduction and Water Splitting. <i>Angewandte Chemie</i> , 2021 , 133, 13285-13304	3.6	10
13	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
12	Unusual [CdII ₃ O ₂ (CO ₂) 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	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

10	Tuning Photoluminescence Emission of a Cadmium-Organic Framework by Excitation. <i>ChemPlusChem</i> , 2014 , 79, 1080-1082	2.8	6
9	An effective approach for constructing acentric heterometallic-organic framework with catalytic activity. <i>Inorganic Chemistry Communication</i> , 2014 , 43, 27-30	3.1	6
8	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
7	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
6	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO2 Electroreduction to Ethylene. <i>Angewandte Chemie</i> , 2021 , 133, 16823-16828	3.6	2
5	Synergy between Confined Cobalt Centers and Oxygen Defects on γ -Fe2O3 Platelets for Efficient Photocatalytic CO2 Reduction. <i>Solar Rrl</i> , 2022 , 6, 2100833	7.1	1
4	A hybrid zeolitic imidazolate framework-derived ZnO/ZnMoO heterostructure for electrochemical hydrogen production. <i>Dalton Transactions</i> , 2021 , 50, 11365-11369	4.3	1
3	Asymmetric metal-organic frameworks with double helices for enantioselective recognition. <i>CrystEngComm</i> , 2021 , 23, 4748-4751	3.3	0
2	Kinetically accelerated and high-mass loaded lithium storage enabled by atomic iron embedded carbon nanofibers. <i>Nano Research</i> , 1	10	0
1	Rücktitelbild: Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). <i>Angewandte Chemie</i> , 2017 , 129, 5724-5724	3.6	