Hai-Long Jiang

List of Publications by Citations

209 papers	35,881 citations	95 h-index	189 g-index
239 ext. papers	43,318 ext. citations	11.9 avg, IF	8.32 L-index

#	Paper	IF	Citations
209	Zirconium-metalloporphyrin PCN-222: mesoporous metal-organic frameworks with ultrahigh stability as biomimetic catalysts. *Angewandte Chemie - International Edition*, **2012**, 51, 10307-10	16.4	1236
208	Metal-organic frameworks meet metal nanoparticles: synergistic effect for enhanced catalysis. *Chemical Society Reviews*, **2017**, 46, 4774-4808	58.5	1137
207	From Bimetallic Metal-Organic Framework to Porous Carbon: High Surface Area and Multicomponent Active Dopants for Excellent Electrocatalysis. *Advanced Materials*, **2015**, 27, 5010-6	24	1016
206	Metal-Organic Frameworks for Heterogeneous Basic Catalysis. *Chemical Reviews*, **2017**, 117, 8129-8176	68.1	974
205	From metal-organic framework to nanoporous carbon: toward a very high surface area and hydrogen uptake. *Journal of the American Chemical Society*, **2011**, 133, 11854-7	16.4	950
204	Carbon capture and conversion using metal-organic frameworks and MOF-based materials. *Chemical Society Reviews*, **2019**, 48, 2783-2828	58.5	910
203	Metal-Organic Frameworks as Platforms for Catalytic Applications. *Advanced Materials*, **2018**, 30, e1703663	24	833
202	Synergistic catalysis of Au@Ag core-shell nanoparticles stabilized on metal-organic framework. *Journal of the American Chemical Society*, **2011**, 133, 1304-6	16.4	781
201	Porous metal-organic frameworks as platforms for functional applications. *Chemical Communications*, **2011**, 47, 3351-70	5.8	743
200	Visible-Light Photoreduction of CO2 in a Metal-Organic Framework: Boosting Electron-Hole Separation via Electron Trap States. *Journal of the American Chemical Society*, **2015**, 137, 13440-3	16.4	710
199	Construction of ultrastable porphyrin Zr metal-organic frameworks through linker elimination. *Journal of the American Chemical Society*, **2013**, 135, 17105-10	16.4	700
198	Au@ZIF-8: CO oxidation over gold nanoparticles deposited to metal-organic framework. *Journal of the American Chemical Society*, **2009**, 131, 11302-3	16.4	693
197	Synergistic catalysis of metal-organic framework-immobilized Au-Pd nanoparticles in dehydrogenation of formic acid for chemical hydrogen storage. *Journal of the American Chemical Society*, **2011**, 133, 11822-5	16.4	645
196	Metal-organic framework-based CoP/reduced graphene oxide: high-performance bifunctional electrocatalyst for overall water splitting. *Chemical Science*, **2016**, 7, 1690-1695	9.4	590
195	Non-, micro-, and mesoporous metal-organic framework isomers: reversible transformation, fluorescence sensing, and large molecule separation. *Journal of the American Chemical Society*, **2010**, 132, 5586-7	16.4	567
194	An exceptionally stable, porphyrinic Zr metal-organic framework exhibiting pH-dependent fluorescence. *Journal of the American Chemical Society*, **2013**, 135, 13934-8	16.4	550
193	Metal-Organic Frameworks for Photocatalysis and Photothermal Catalysis. *Accounts of Chemical Research*, **2019**, 52, 356-366	24.3	541

192	Metal–organic framework (MOF) as a template for syntheses of nanoporous carbons as electrode materials for supercapacitor. *Carbon*, **2010**, 48, 456-463	10.4	537
191	Metal–organic framework-derived porous materials for catalysis. *Coordination Chemistry Reviews*, **2018**, 362, 1-23	23.2	524
190	Nanowire-directed templating synthesis of metal-organic framework nanofibers and their derived porous doped carbon nanofibers for enhanced electrocatalysis. *Journal of the American Chemical Society*, **2014**, 136, 14385-8	16.4	506
189	Hollow Zn/Co ZIF Particles Derived from Core-Shell ZIF-67@ZIF-8 as Selective Catalyst for the Semi-Hydrogenation of Acetylene. *Angewandte Chemie - International Edition*, **2015**, 54, 10889-93	16.4	491
188	Chemical Sensors Based on Metal-Organic Frameworks. *ChemPlusChem*, **2016**, 81, 675-690	2.8	465
187	From Metal-Organic Frameworks to Single-Atom Fe Implanted N-doped Porous Carbons: Efficient Oxygen Reduction in Both Alkaline and Acidic Media. *Angewandte Chemie - International Edition*, **2018**, 57, 8525-8529	16.4	462
186	Singlet Oxygen-Engaged Selective Photo-Oxidation over Pt Nanocrystals/Porphyrinic MOF: The Roles of Photothermal Effect and Pt Electronic State. *Journal of the American Chemical Society*, **2017**, 139, 2035-2044	16.4	458
185	Interpenetration control in metal–organic frameworks for functional applications. *Coordination Chemistry Reviews*, **2013**, 257, 2232-2249	23.2	415
184	Single Pt Atoms Confined into a Metal-Organic Framework for Efficient Photocatalysis. *Advanced Materials*, **2018**, 30, 1705112	24	405
183	Recent progress in synergistic catalysis over heterometallic nanoparticles. *Journal of Materials Chemistry*, **2011**, 21, 13705		367
182	Boosting Photocatalytic Hydrogen Production of a Metal-Organic Framework Decorated with Platinum Nanoparticles: The Platinum Location Matters. *Angewandte Chemie - International Edition*, **2016**, 55, 9389-93	16.4	366
181	Improving MOF stability: approaches and applications. *Chemical Science*, **2019**, 10, 10209-10230	9.4	366
180	Metal-Organic-Framework-Based Single-Atom Catalysts for Energy Applications. *CheM*, **2019**, 5, 786-804	16.2	361
179	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal-Organic Framework for Efficient and Selective Catalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 3685-9	16.4	356
178	Liquid-phase chemical hydrogen storage: catalytic hydrogen generation under ambient conditions. *ChemSusChem*, **2010**, 3, 541-9	8.3	345
177	A facile and general coating approach to moisture/water-resistant metal-organic frameworks with intact porosity. *Journal of the American Chemical Society*, **2014**, 136, 16978-81	16.4	342
176	A Modulator-Induced Defect-Formation Strategy to Hierarchically Porous Metal-Organic Frameworks with High Stability. *Angewandte Chemie - International Edition*, **2017**, 56, 563-567	16.4	337
175	A Stretchable Electronic Fabric Artificial Skin with Pressure-, Lateral Strain-, and Flexion-Sensitive Properties. *Advanced Materials*, **2016**, 28, 722-8	24	325

174	Porous Molybdenum-Based Hybrid Catalysts for Highly Efficient Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 12928-32	16.4	321
173	Metal□organic frameworks: Structures and functional applications. *Materials Today*, **2019**, 27, 43-68	21.8	321
172	Template-Directed Growth of Well-Aligned MOF Arrays and Derived Self-Supporting Electrodes for Water Splitting. *CheM*, **2017**, 2, 791-802	16.2	319
171	Metal-Organic-Framework-Derived Hollow N-Doped Porous Carbon with Ultrahigh Concentrations of Single Zn Atoms for Efficient Carbon Dioxide Conversion. *Angewandte Chemie - International Edition*, **2019**, 58, 3511-3515	16.4	313
170	Pore surface engineering with controlled loadings of functional groups via click chemistry in highly stable metal-organic frameworks. *Journal of the American Chemical Society*, **2012**, 134, 14690-3	16.4	312
169	Integration of an inorganic semiconductor with a metal-organic framework: a platform for enhanced gaseous photocatalytic reactions. *Advanced Materials*, **2014**, 26, 4783-8	24	310
168	Multifunctional [email□protected] for One-Pot Cascade Reactions: Combination of Host□Guest Cooperation and Bimetallic Synergy in Catalysis. *ACS Catalysis*, **2015**, 5, 2062-2069	13.1	304
167	Mesoporous metal-organic frameworks with size-tunable cages: selective CO□uptake, encapsulation of Ln□+ cations for luminescence, and column-chromatographic dye separation. *Advanced Materials*, **2011**, 23, 5015-20	24	299
166	Integration of Plasmonic Effects and Schottky Junctions into Metal-Organic Framework Composites: Steering Charge Flow for Enhanced Visible-Light Photocatalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 1103-1107	16.4	296
165	Water-stable metal-organic frameworks with intrinsic peroxidase-like catalytic activity as a colorimetric biosensing platform. *Chemical Communications*, **2014**, 50, 1092-4	5.8	275
164	Controlled Intercalation and Chemical Exfoliation of Layered Metal-Organic Frameworks Using a Chemically Labile Intercalating Agent. *Journal of the American Chemical Society*, **2017**, 139, 9136-9139	16.4	263
163	Catalytic hydrolysis of ammonia borane for chemical hydrogen storage. *Catalysis Today*, **2011**, 170, 56-63	5.3	260
162	Photocatalytic Hydrogen Production Coupled with Selective Benzylamine Oxidation over MOF Composites. *Angewandte Chemie - International Edition*, **2018**, 57, 5379-5383	16.4	249
161	Incorporation of Imidazolium-Based Poly(ionic liquid)s into a Metal□Organic Framework for CO2 Capture and Conversion. *ACS Catalysis*, **2018**, 8, 3194-3201	13.1	239
160	Zirconium-Metalloporphyrin PCN-222: Mesoporous Metal□Organic Frameworks with Ultrahigh Stability as Biomimetic Catalysts. *Angewandte Chemie*, **2012**, 124, 10453-10456	3.6	231
159	Regulating the Coordination Environment of MOF-Templated Single-Atom Nickel Electrocatalysts for Boosting CO Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 2705-2709	16.4	227
158	Carbon dioxide capture and conversion by an acid-base resistant metal-organic framework. *Nature Communications*, **2017**, 8, 1233	17.4	215
157	Polydimethylsiloxane Coating for a Palladium/MOF Composite: Highly Improved Catalytic Performance by Surface Hydrophobization. *Angewandte Chemie - International Edition*, **2016**, 55, 7379-83	16.4	212

156	Rational synthesis of an exceptionally stable Zn(II) metal-organic framework for the highly selective and sensitive detection of picric acid. *Chemical Communications*, **2016**, 52, 5734-7	5.8	211
155	Metal-organic frameworks for catalysis: State of the art, challenges, and opportunities. *EnergyChem* , **2019**, 1, 100005	36.9	204
154	Tiny Pd@Co core-shell nanoparticles confined inside a metal-organic framework for highly efficient catalysis. *Small*, **2015**, 11, 71-6	11	187
153	Bimetallic Au-Ni nanoparticles embedded in SiO2 nanospheres: synergetic catalysis in hydrolytic dehydrogenation of ammonia borane. *Chemistry - A European Journal*, **2010**, 16, 3132-7	4.8	184
152	Photocatalytic CO2 reduction over metal-organic framework-based materials. *Coordination Chemistry Reviews*, **2020**, 412, 213262	23.2	182
151	Nanocasting SiO into metal-organic frameworks imparts dual protection to high-loading Fe single-atom electrocatalysts. *Nature Communications*, **2020**, 11, 2831	17.4	173
150	Metal-organic frameworks based on previously unknown Zr8/Hf8 cubic clusters. *Inorganic Chemistry* , **2013**, 52, 12661-7	5.1	170
149	Exceptionally Robust In-Based Metal-Organic Framework for Highly Efficient Carbon Dioxide Capture and Conversion. *Inorganic Chemistry*, **2016**, 55, 3558-65	5.1	169
148	Switching on the Photocatalysis of Metal-Organic Frameworks by Engineering Structural Defects. *Angewandte Chemie - International Edition*, **2019**, 58, 12175-12179	16.4	162
147	Polar group and defect engineering in a metal-organic framework: synergistic promotion of carbon dioxide sorption and conversion. *ChemSusChem*, **2015**, 8, 878-85	8.3	162
146	Conversion of a metal-organic framework to N-doped porous carbon incorporating Co and CoO nanoparticles: direct oxidation of alcohols to esters. *Chemical Communications*, **2015**, 51, 8292-5	5.8	156
145	Unveiling Charge-Separation Dynamics in CdS/Metal-Organic Framework Composites for Enhanced Photocatalysis. *ACS Catalysis*, **2018**, 8, 11615-11621	13.1	150
144	Turning on Visible-Light Photocatalytic C-H Oxidation over Metal-Organic Frameworks by Introducing Metal-to-Cluster Charge Transfer. *Journal of the American Chemical Society*, **2019**, 141, 19110-19117	16.4	148
143	[TiZrO(COO)] Cluster: An Ideal Inorganic Building Unit for Photoactive Metal-Organic Frameworks. *ACS Central Science*, **2018**, 4, 105-111	16.8	148
142	An amine-functionalized metal-organic framework as a sensing platform for DNA detection. *Chemical Communications*, **2014**, 50, 12069-72	5.8	146
141	Structures and properties of functional metal selenites and tellurites. *Inorganic Chemistry*, **2008**, 47, 8498-510	5.1	146
140	From UV to Near-Infrared Light-Responsive Metal-Organic Framework Composites: Plasmon and Upconversion Enhanced Photocatalysis. *Advanced Materials*, **2018**, 30, e1707377	24	146
139	A MOF-derived Co-CoO@N-doped porous carbon for efficient tandem catalysis: dehydrogenation of ammonia borane and hydrogenation of nitro compounds. *Chemical Communications*, **2016**, 52, 7719-22	5.8	144

138	Encapsulating a Co(II) Molecular Photocatalyst in Metal–Organic Framework for Visible-Light-Driven H2 Production: Boosting Catalytic Efficiency via Spatial Charge Separation. *ACS Catalysis*, **2016**, 6, 5359-5365	13.1	140
137	One-pot tandem catalysis over Pd@MIL-101: boosting the efficiency of nitro compound hydrogenation by coupling with ammonia borane dehydrogenation. *Chemical Communications*, **2015**, 51, 10419-22	5.8	137
136	Direct evidence of charge separation in a metal-organic framework: efficient and selective photocatalytic oxidative coupling of amines charge and energy transfer. *Chemical Science*, **2018**, 9, 3152-3158	9.4	137
135	A series of (6,6)-connected porous lanthanide–organic framework enantiomers with high thermostability and exposed metal sites: scalable syntheses, structures, and sorption properties. *Inorganic Chemistry*, **2010**, 49, 10001-6	5.1	136
134	Porphyrinic Metal–Organic Framework Catalyzed Heck-Reaction: Fluorescence "Turn-On" Sensing of Cu(II) Ion. *Chemistry of Materials*, **2016**, 28, 6698-6704	9.6	130
133	Hollow metal-organic framework nanospheres via emulsion-based interfacial synthesis and their application in size-selective catalysis. *ACS Applied Materials & Interfaces*, **2014**, 6, 18163-71	9.5	128
132	Regulating Photocatalysis by Spin-State Manipulation of Cobalt in Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 16723-16731	16.4	126
131	MIL-101-SO3H: a highly efficient Brønsted acid catalyst for heterogeneous alcoholysis of epoxides under ambient conditions. *Chemistry - A European Journal*, **2014**, 20, 14976-80	4.8	123
130	Solvent-induced controllable synthesis, single-crystal to single-crystal transformation and encapsulation of Alq3 for modulated luminescence in (4,8)-connected metal-organic frameworks. *Inorganic Chemistry*, **2012**, 51, 7484-91	5.1	121
129	Boosting Photocatalytic Hydrogen Production of Porphyrinic MOFs: The Metal Location in Metalloporphyrin Matters. *ACS Catalysis*, **2018**, 8, 4583-4590	13.1	120
128	Metal–Organic Frameworks and Their Composites: Synthesis and Electrochemical Applications. *Small Methods*, **2017**, 1, 1700187	12.8	119
127	Palladium nanoparticles stabilized with N-doped porous carbons derived from metal–organic frameworks for selective catalysis in biofuel upgrade: the role of catalyst wettability. *Green Chemistry*, **2016**, 18, 1212-1217	10	118
126	A metal-organic framework-templated synthesis of α-Fe2O3 nanoparticles encapsulated in porous carbon for efficient and chemoselective hydrogenation of nitro compounds. *Chemical Communications*, **2016**, 52, 4199-202	5.8	117
125	Alkylamine-tethered stable metal-organic framework for CO(2) capture from flue gas. *ChemSusChem*, **2014**, 7, 734-7	8.3	113
124	Rational Fabrication of Low-Coordinate Single-Atom Ni Electrocatalysts by MOFs for Highly Selective CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 7607-7611	16.4	113
123	Single-Atom Electrocatalysts from Multivariate Metal-Organic Frameworks for Highly Selective Reduction of CO at Low Pressures. *Angewandte Chemie - International Edition*, **2020**, 59, 20589-20595	16.4	111
122	Metal-Organic Framework-Based Hierarchically Porous Materials: Synthesis and Applications. *Chemical Reviews*, **2021**, 121, 12278-12326	68.1	110
121	In situ large-scale construction of sulfur-functionalized metal–organic framework and its efficient removal of Hg(II) from water. *Journal of Materials Chemistry A*, **2016**, 4, 15370-15374	13	107

120	Boosting Photocatalytic Hydrogen Production of a Metal–Organic Framework Decorated with Platinum Nanoparticles: The Platinum Location Matters. *Angewandte Chemie*, **2016**, 128, 9535-9539	3.6	103
119	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal–Organic Framework for Efficient and Selective Catalysis. *Angewandte Chemie*, **2016**, 128, 3749-3753	3.6	99
118	Explorations of new types of second-order nonlinear optical materials in Cd(Zn)-VV-TeIV-O Systems. *Chemistry - A European Journal*, **2008**, 14, 1972-81	4.8	97
117	Boosting Electrocatalytic Hydrogen Evolution over Metal-Organic Frameworks by Plasmon-Induced Hot-Electron Injection. *Angewandte Chemie - International Edition*, **2019**, 58, 10713-10717	16.4	96
116	A one-pot protocol for synthesis of non-noble metal-based core-shell nanoparticles under ambient conditions: toward highly active and cost-effective catalysts for hydrolytic dehydrogenation of NH3BH3. *Chemical Communications*, **2011**, 47, 10999-1001	5.8	95
115	Photocatalytic Molecular Oxygen Activation by Regulating Excitonic Effects in Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 20763-20771	16.4	95
114	Nano-sized metal-organic frameworks: Synthesis and applications. *Coordination Chemistry Reviews*, **2020**, 417, 213366	23.2	89
113	Coating sponge with a hydrophobic porous coordination polymer containing a low-energy CF3-decorated surface for continuous pumping recovery of an oil spill from water. *NPG Asia Materials*, **2016**, 8, e253-e253	10.3	89
112	Porphyrinic Metal-Organic Framework-Templated Fe-Ni-P/Reduced Graphene Oxide for Efficient Electrocatalytic Oxygen Evolution. *ACS Applied Materials & Interfaces*, **2017**, 9, 23852-23858	9.5	85
111	Rational Assembly of d10 Metal–Organic Frameworks with Helical Nanochannels Based on Flexible V-Shaped Ligand. *Crystal Growth and Design*, **2010**, 10, 806-811	3.5	84
110	A Modulator-Induced Defect-Formation Strategy to Hierarchically Porous Metal–Organic Frameworks with High Stability. *Angewandte Chemie*, **2017**, 129, 578-582	3.6	83
109	Ultrafine gold clusters incorporated into a metal-organic framework. *Chemistry - A European Journal*, **2011**, 17, 78-81	4.8	82
108	Facile synthesis of graphene-supported Ni-CeOx nanocomposites as highly efficient catalysts for hydrolytic dehydrogenation of ammonia borane. *Nano Research*, **2018**, 11, 4412-4422	10	80
107	Self-adaptive dual-metal-site pairs in metal-organic frameworks for selective CO2 photoreduction to CH4. *Nature Catalysis*, **2021**, 4, 719-729	36.5	80
106	From Metal–Organic Frameworks to Single-Atom Fe Implanted N-doped Porous Carbons: Efficient Oxygen Reduction in Both Alkaline and Acidic Media. *Angewandte Chemie*, **2018**, 130, 8661-8665	3.6	79
105	Boosting Catalysis of Pd Nanoparticles in MOFs by Pore Wall Engineering: The Roles of Electron Transfer and Adsorption Energy. *Advanced Materials*, **2020**, 32, e2000041	24	78
104	Seed-Mediated Synthesis of Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2016**, 138, 5316-20	16.4	78
103	A route to metal-organic frameworks through framework templating. *Inorganic Chemistry*, **2013**, 52, 1164	4.6	77

102	Single-atom catalysts templated by metal-organic frameworks for electrochemical nitrogen reduction. *Journal of Materials Chemistry A*, **2019**, 7, 26371-26377	13	76
101	Synergistic catalysis of Au-Co@SiO2 nanospheres in hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. *Journal of Materials Chemistry*, **2012**, 22, 5065		75
100	Metal-Organic Framework-Templated Catalyst: Synergy in Multiple Sites for Catalytic CO Fixation. *ChemSusChem*, **2017**, 10, 1898-1903	8.3	74
99	Metal-Organic Framework-Derived FeCo-N-Doped Hollow Porous Carbon Nanocubes for Electrocatalysis in Acidic and Alkaline Media. *ChemSusChem*, **2017**, 10, 3019-3024	8.3	73
98	Metal-Organic Framework-Templated Porous Carbon for Highly Efficient Catalysis: The Critical Role of Pyrrolic Nitrogen Species. *Chemistry - A European Journal*, **2016**, 22, 3470-3477	4.8	72
97	Photocatalytic Hydrogen Production Coupled with Selective Benzylamine Oxidation over MOF Composites. *Angewandte Chemie*, **2018**, 130, 5477-5481	3.6	71
96	Incorporating Transition-Metal Phosphides Into Metal-Organic Frameworks for Enhanced Photocatalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 22749-22755	16.4	68
95	Tailor-made metal-organic frameworks from functionalized molecular building blocks and length-adjustable organic linkers by stepwise synthesis. *Chemistry - A European Journal*, **2012**, 18, 8076-83	4.8	66
94	One-step synthesis of magnetically recyclable Au/Co/Fe triple-layered core-shell nanoparticles as highly efficient catalysts for the hydrolytic dehydrogenation of ammonia borane. *Nano Research*, **2011**, 4, 1233-1241	10	66
93	Low-cost CuNi@MIL-101 as an excellent catalyst toward cascade reaction: integration of ammonia borane dehydrogenation with nitroarene hydrogenation. *Chemical Communications*, **2017**, 53, 12361-12364	5.8	65
92	Sodium-Doped C N /MOF Heterojunction Composites with Tunable Band Structures for Photocatalysis: Interplay between Light Harvesting and Electron Transfer. *Chemistry - A European Journal*, **2018**, 24, 18403-18407	4.8	64
91	Precisely Controlled Porous Alumina Overcoating on Pd Catalyst by Atomic Layer Deposition: Enhanced Selectivity and Durability in Hydrogenation of 1,3-Butadiene. *ACS Catalysis*, **2015**, 5, 2735-2739	13.1	63
90	CsB3GeO7 and K2B2Ge3O10: explorations of new second-order nonlinear optical materials in the borogermanate systems. *Inorganic Chemistry*, **2008**, 47, 10611-7	5.1	62
89	Encapsulating soluble active species into hollow crystalline porous capsules beyond integration of homogeneous and heterogeneous catalysis. *National Science Review*, **2020**, 7, 37-45	10.8	60
88	Modulating Coordination Environment of Single-Atom Catalysts and Their Proximity to Photosensitive Units for Boosting MOF Photocatalysis. *Journal of the American Chemical Society*, **2021**, 143, 12220-12229	16.4	58
87	Optimization of ultrasonic cell grinder extraction of anthocyanins from blueberry using response surface methodology. *Ultrasonics Sonochemistry*, **2017**, 34, 325-331	8.9	57
86	Location determination of metal nanoparticles relative to a metal-organic framework. *Nature Communications*, **2019**, 10, 3462	17.4	57
85	Solid-state structural transformation doubly triggered by reaction temperature and time in 3D metal-organic frameworks: great enhancement of stability and gas adsorption. *Chemical Science*, **2014**, 5, 1368	9.4	57

84	Regulating the Coordination Environment of MOF-Templated Single-Atom Nickel Electrocatalysts for Boosting CO2 Reduction. *Angewandte Chemie*, **2020**, 132, 2727-2731	3.6	57
83	Polydimethylsiloxane Coating for a Palladium/MOF Composite: Highly Improved Catalytic Performance by Surface Hydrophobization. *Angewandte Chemie*, **2016**, 128, 7505-7509	3.6	56
82	Non-Bonding Interaction of Neighboring Fe and Ni Single-Atom Pairs on MOF-Derived N-Doped Carbon for Enhanced CO Electroreduction. *Journal of the American Chemical Society*, **2021**, 143, 19417-19424	16.4	55
81	Precise fabrication of single-atom alloy co-catalyst with optimal charge state for enhanced photocatalysis. *National Science Review*, **2021**, 8, nwaa224	10.8	55
80	A noble-metal-free nanocatalyst for highly efficient and complete hydrogen evolution from N2H4BH3. *Journal of Materials Chemistry A*, **2018**, 6, 4386-4393	13	52
79	Metal-Organic Frameworks for Catalysis. *Acta Chimica Sinica*, **2016**, 74, 113	3.3	52
78	Metal–Organic-Framework-Derived Hollow N-Doped Porous Carbon with Ultrahigh Concentrations of Single Zn Atoms for Efficient Carbon Dioxide Conversion. *Angewandte Chemie*, **2019**, 131, 3549-3553	3.6	52
77	Boosting selective oxidation of cyclohexane over a metal-organic framework by hydrophobicity engineering of pore walls. *Chemical Communications*, **2017**, 53, 10026-10029	5.8	51
76	Porous Molybdenum-Based Hybrid Catalysts for Highly Efficient Hydrogen Evolution. *Angewandte Chemie*, **2015**, 127, 13120-13124	3.6	51
75	Metal–organic frameworks (MOFs) beyond crystallinity: amorphous MOFs, MOF liquids and MOF glasses. *Journal of Materials Chemistry A*, **2021**, 9, 10562-10611	13	51
74	Thermally Stable Metal-Organic Framework-Templated Synthesis of Hierarchically Porous Metal Sulfides: Enhanced Photocatalytic Hydrogen Production. *Small*, **2017**, 13, 1700632	11	49
73	ZnVSe2O7 and Cd6V2Se5O21: new d10 transition-metal selenites with V(IV) or V(V) cations. *Inorganic Chemistry*, **2008**, 47, 7430-7	5.1	48
72	From covalent triazine-based frameworks to N-doped porous carbon/reduced graphene oxide nanosheets: efficient electrocatalysts for oxygen reduction. *Journal of Materials Chemistry A*, **2017**, 5, 23170-23178	13	47
71	Incorporation of InS Nanoparticles into a Metal-Organic Framework for Ultrafast Removal of Hg from Water. *Inorganic Chemistry*, **2018**, 57, 4891-4897	5.1	46
70	Luminescent lanthanide selenites and tellurites decorated by MoO4 tetrahedra or MoO6 octahedra: Nd2MoSe2O10, Gd2MoSe3O12, La2MoTe3O12, and Nd2MoTe3O12. *Inorganic Chemistry* , **2005**, 44, 9314-21	5.1	46
69	Syntheses, crystal structures, and properties of five new transition metal molybdenum(VI) selenites and tellurites. *Inorganic Chemistry*, **2009**, 48, 11809-20	5.1	41
68	Accelerating Chemo- and Regioselective Hydrogenation of Alkynes over Bimetallic Nanoparticles in a Metal–Organic Framework. *ACS Catalysis*, **2020**, 10, 7753-7762	13.1	40
67	One-step assembly of a hierarchically porous phenolic resin-type polymer with high stability for CO capture and conversion. *Chemical Communications*, **2016**, 52, 12294-12297	5.8	40

66	Interfacial Microenvironment Modulation Boosting Electron Transfer between Metal Nanoparticles and MOFs for Enhanced Photocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 16372-16376	16.4	40
65	Integration of Pd nanoparticles with engineered pore walls in MOFs for enhanced catalysis. *CheM*, **2021**, 7, 686-698	16.2	40
64	Microenvironment Modulation in Metal–Organic Framework-Based Catalysis. *Accounts of Materials Research*, **2021**, 2, 327-339	7.5	40
63	A seed-mediated approach to the general and mild synthesis of non-noble metal nanoparticles stabilized by a metal–organic framework for highly efficient catalysis. *Materials Horizons*, **2015**, 2, 606-612	14.4	35
62	Metal–organic frameworks with improved moisture stability based on a phosphonate monoester: effect of auxiliary N-donor ligands on framework dimensionality. *CrystEngComm*, **2014**, 16, 6635-6644	3.3	35
61	Switching on the Photocatalysis of Metal–Organic Frameworks by Engineering Structural Defects. *Angewandte Chemie*, **2019**, 131, 12303-12307	3.6	34
60	Integration of metal-organic frameworks and covalent organic frameworks: Design, synthesis, and applications. *Matter*, **2021**, 4, 2230-2265	12.7	33
59	Counterion-induced controllable assembly of 2D and 3D metal–organic frameworks: effect of coordination modes of dinuclear Cu(II) paddle-wheel motifs. *CrystEngComm*, **2010**, 12, 3815	3.3	32
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