Omar K Farha

List of Publications by Year
in descending order

608 papers	88,338 citations	246 143 h-index	428 275 g-index
642 all docs	642 docs citations	642 times ranked	44482 citing authors

#	Article	IF	Citations
1	Metalâ€“organic framework materials as catalysts. Chemical Society Reviews, 2009, 38, 1450.	18.7	7,228
2	Metalâ€“Organic Framework Materials as Chemical Sensors. Chemical Reviews, 2012, 112, 1105-1125.	23.0	6,221
3	Imparting functionality to a metalâ€“organic framework material by controlled nanoparticle encapsulation. Nature Chemistry, 2012, 4, 310-316.	6.6	1,857
4	2D Homologous Perovskites as Light-Absorbing Materials for Solar Cell Applications. Journal of the American Chemical Society, 2015, 137, 7843-7850.	6.6	1,818
5	De novo synthesis of a metalâ€“organic framework material featuring ultrahigh surface area and gas storage capacities. Nature Chemistry, 2010, 2, 944-948.	6.6	1,535
6	Metalâ€“Organic Framework Materials with Ultrahigh Surface Areas: Is the Sky the Limit?. Journal of the American Chemical Society, 2012, 134, 15016-15021.	6.6	1,497
7	Chemical, thermal and mechanical stabilities of metalâ€“organic frameworks. Nature Reviews Materials, 2016, 1, .	23.3	1,490
8	A facile synthesis of UiO-66, UiO-67 and their derivatives. Chemical Communications, 2013, 49, 9449.	2.2	1,340
9	Rational Design, Synthesis, Purification, and Activation of Metalâ^'Organic Framework Materials. Accounts of Chemical Research, 2010, 43, 1166-1175.	7.6	1,259
10	Large-scale screening of hypothetical metalâ€“organic frameworks. Nature Chemistry, 2012, 4, 83-89.	6.6	1,098
11	Methane Storage in Metalâ€“Organic Frameworks: Current Records, Surprise Findings, and Challenges. Journal of the American Chemical Society, 2013, 135, 11887-11894.	6.6	841
12	Vapor-Phase Metalation by Atomic Layer Deposition in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2013, 135, 10294-10297.	6.6	821
13	Destruction of chemical warfare agents using metalâ€“organic frameworks. Nature Materials, 2015, 14, 512-516.	13.3	790
14	Beyond post-synthesis modification: evolution of metalâ€“organic frameworks via building block replacement. Chemical Society Reviews, 2014, 43, 5896-5912.	18.7	721
15	Metalâ€“organic frameworks for heavy metal removal from water. Coordination Chemistry Reviews, 2018, 358, 92-107.	9.5	719
16	Metalâ€“organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. Chemical Society Reviews, 2017, 46, 3357-3385.	18.7	707
17	Light-Harvesting Metalâ€“Organic Frameworks (MOFs): Efficient Strut-to-Strut Energy Transfer in Bodipy and Porphyrin-Based MOFs. Journal of the American Chemical Society, 2011, 133, 15858-15861.	6.6	702
18	Postsynthetic Tuning of Metalâ€“Organic Frameworks for Targeted Applications. Accounts of Chemical Research, 2017, 50, 805-813.	7.6	644

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19	Fe-Porphyrin-Based Metalâ€“Organic Framework Films as High-Surface Concentration, Heterogeneous Catalysts for Electrochemical Reduction of CO₂. ACS Catalysis, 2015, 5, 6302-6309.	5.5	639
20	A Catalytically Active, Permanently Microporous MOF with Metalloporphyrin Struts. Journal of the American Chemical Society, 2009, 131, 4204-4205.	6.6	526
21	Computation-Ready, Experimental Metalâ€“Organic Frameworks: A Tool To Enable High-Throughput Screening of Nanoporous Crystals. Chemistry of Materials, 2014, 26, 6185-6192.	3.2	524
22	Best Practices for the Synthesis, Activation, and Characterization of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 26-39.	3.2	518
23	Light-Harvesting and Ultrafast Energy Migration in Porphyrin-Based Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 862-869.	6.6	510
24	Supercritical Processing as a Route to High Internal Surface Areas and Permanent Microporosity in Metalâˆ'Organic Framework Materials. Journal of the American Chemical Society, 2009, 131, 458-460.	6.6	474
25	Perfluoroalkane Functionalization of NU-1000 via Solvent-Assisted Ligand Incorporation: Synthesis and CO₂ Adsorption Studies. Journal of the American Chemical Society, 2013, 135, 16801-16804.	6.6	473
26	A Hafnium-Based Metalâ€“Organic Framework as an Efficient and Multifunctional Catalyst for Facile CO₂ Fixation and Regioselective and Enantioretentive Epoxide Activation. Journal of the American Chemical Society, 2014, 136, 15861-15864.	6.6	470
27	Balancing volumetric and gravimetric uptake in highly porous materials for clean energy. Science, 2020, 368, 297-303.	6.0	429
28	Active-Site-Accessible, Porphyrinic Metalâˆ'Organic Framework Materials. Journal of the American Chemical Society, 2011, 133, 5652-5655.	6.6	415
29	Metalâ€“organic framework materials for light-harvesting and energy transfer. Chemical Communications, 2015, 51, 3501-3510.	2.2	409
30	Metalâ€“Organic Frameworks against Toxic Chemicals. Chemical Reviews, 2020, 120, 8130-8160.	23.0	406
31	High Propene/Propane Selectivity in Isostructural Metalâ€“Organic Frameworks with High Densities of Open Metal Sites. Angewandte Chemie - International Edition, 2012, 51, 1857-1860.	7.2	392
32	Identifying the Recognition Site for Selective Trapping of ⁹⁹TcO₄^{â€“} in a Hydrolytically Stable and Radiation Resistant Cationic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 14873-14876.	6.6	386
33	Coordination-Chemistry Control of Proton Conductivity in the Iconic Metalâ€“Organic Framework Material HKUST-1. Journal of the American Chemical Society, 2012, 134, 51-54.	6.6	382
34	Enhancement of CO2/N2 selectivity in a metal-organic framework by cavity modification. Journal of Materials Chemistry, 2009, 19, 2131.	6.7	370
35	Opening ZIF-8: A Catalytically Active Zeolitic Imidazolate Framework of Sodalite Topology with Unsubstituted Linkers. Journal of the American Chemical Society, 2012, 134, 18790-18796.	6.6	370
36	A historical overview of the activation and porosity of metalâ€“organic frameworks. Chemical Society Reviews, 2020, 49, 7406-7427.	18.7	367

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37	Simple and Compelling Biomimetic Metalâ€“Organic Framework Catalyst for the Degradation of Nerve Agent Simulants. Angewandte Chemie - International Edition, 2014, 53, 497-501.	7.2	364
38	Metal-adeninate vertices for the construction of an exceptionally porous metal-organic framework. Nature Communications, 2012, 3, 604.	5.8	356
39	Carborane-based metalâ€“organic frameworks as highly selective sorbents for CO2 over methane. Chemical Communications, 2008, , 4135.	2.2	349
40	Room-Temperature Synthesis of UiO-66 and Thermal Modulation of Densities of Defect Sites. Chemistry of Materials, 2017, 29, 1357-1361.	3.2	346
41	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesdenâ€“Popper (CH₃(CH₂)₃NH₃)₂(CH₃NH₃)<sub><i>n</i Perovskites. ACS Energy Letters, 2017, 2, 982-990.	8.8	345
42	Control over Catenation in Metalâˆ'Organic Frameworks via Rational Design of the Organic Building Block. Journal of the American Chemical Society, 2010, 132, 950-952.	6.6	344
43	Solventâ€Assisted Linker Exchange: An Alternative to the Deâ€…Novo Synthesis of Unattainable Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2014, 53, 4530-4540.	7.2	339
44	Instantaneous Hydrolysis of Nerveâ€Agent Simulants with a Sixâ€Connected Zirconiumâ€Based Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2015, 54, 6795-6799.	7.2	338
45	Structureâ€“property relationships of porous materials for carbon dioxide separation and capture. Energy and Environmental Science, 2012, 5, 9849.	15.6	334
46	Acid-Resistant Mesoporous Metalâ€“Organic Framework toward Oral Insulin Delivery: Protein Encapsulation, Protection, and Release. Journal of the American Chemical Society, 2018, 140, 5678-5681.	6.6	334
47	High Efficiency Adsorption and Removal of Selenate and Selenite from Water Using Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 7488-7494.	6.6	330
48	Ultrahigh Surface Area Zirconium MOFs and Insights into the Applicability of the BET Theory. Journal of the American Chemical Society, 2015, 137, 3585-3591.	6.6	329
49	Energy Transfer from Quantum Dots to Metalâ€“Organic Frameworks for Enhanced Light Harvesting. Journal of the American Chemical Society, 2013, 135, 955-958.	6.6	328
50	Reticular chemistry in the rational synthesis of functional zirconium cluster-based MOFs. Coordination Chemistry Reviews, 2019, 386, 32-49.	9.5	326
51	Using natureâ€™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	6.0	306
52	Post-Synthesis Alkoxide Formation Within Metalâˆ'Organic Framework Materials: A Strategy for Incorporating Highly Coordinatively Unsaturated Metal Ions. Journal of the American Chemical Society, 2009, 131, 3866-3868.	6.6	302
53	Encapsulation of a Nerve Agent Detoxifying Enzyme by a Mesoporous Zirconium Metalâ€“Organic Framework Engenders Thermal and Long-Term Stability. Journal of the American Chemical Society, 2016, 138, 8052-8055.	6.6	302
54	Urea Metalâ€“Organic Frameworks as Effective and Size-Selective Hydrogen-Bond Catalysts. Journal of the American Chemical Society, 2012, 134, 3334-3337.	6.6	292

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55	Catalytic Zirconium/Hafnium-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2017, 7, 997-1014.	5.5	288
56	Bottom-up construction of a superstructure in a porous uranium-organic crystal. Science, 2017, 356, 624-627.	6.0	286
57	Methane Oxidation to Methanol Catalyzed by Cu-Oxo Clusters Stabilized in NU-1000 Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 10294-10301.	6.6	282
58	Copper Metalâ€“Organic Framework Nanoparticles Stabilized with Folic Acid Improve Wound Healing in Diabetes. ACS Nano, 2018, 12, 1023-1032.	7.3	282
59	Hierarchically Engineered Mesoporous Metal-Organic Frameworks toward Cell-free Immobilized Enzyme Systems. CheM, 2018, 4, 1022-1034.	5.8	281
60	Are Zr₆-based MOFs water stable? Linker hydrolysis vs. capillary-force-driven channel collapse. Chemical Communications, 2014, 50, 8944.	2.2	277
61	Scalable synthesis and post-modification of a mesoporous metal-organic framework called NU-1000. Nature Protocols, 2016, 11, 149-162.	5.5	276
62	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. Coordination Chemistry Reviews, 2017, 346, 101-111.	9.5	275
63	Sintering-Resistant Single-Site Nickel Catalyst Supported by Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 1977-1982.	6.6	273
64	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. Chemistry of Materials, 2009, 21, 3033-3035.	3.2	272
65	Synthesis and Hydrogen Sorption Properties of Carborane Based Metalâˆ’Organic Framework Materials. Journal of the American Chemical Society, 2007, 129, 12680-12681.	6.6	269
66	Temperature Treatment of Highly Porous Zirconium-Containing Metalâ€“Organic Frameworks Extends Drug Delivery Release. Journal of the American Chemical Society, 2017, 139, 7522-7532.	6.6	269
67	Transmetalation: routes to metal exchange within metalâ€“organic frameworks. Journal of Materials Chemistry A, 2013, 1, 5453.	5.2	267
68	Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	11.1	265
69	Exploiting parameter space in MOFs: a 20-fold enhancement of phosphate-ester hydrolysis with UiO-66-NH₂. Chemical Science, 2015, 6, 2286-2291.	3.7	265
70	Remnant PbI2, an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	2.2	264
71	Kinetic Separation of Propene and Propane in Metalâˆ’Organic Frameworks: Controlling Diffusion Rates in Plate-Shaped Crystals via Tuning of Pore Apertures and Crystallite Aspect Ratios. Journal of the American Chemical Society, 2011, 133, 5228-5231.	6.6	263
72	Evaluation of BrÃ¸nsted acidity and proton topology in Zr- and Hf-based metalâ€“organic frameworks using potentiometric acidâ€“base titration. Journal of Materials Chemistry A, 2016, 4, 1479-1485.	5.2	259

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73	Mechanochemical and solvent-free assembly of zirconium-based metalâ€“organic frameworks. Chemical Communications, 2016, 52, 2133-2136.	2.2	256
74	Incorporation of an A1/A2-Difunctionalized Pillar[5]arene into a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 17436-17439.	6.6	254
75	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	6.6	252
76	Layer-by-Layer Fabrication of Oriented Porous Thin Films Based on Porphyrin-Containing Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 15698-15701.	6.6	250
77	Selective Photooxidation of a Mustardâ€Gas Simulant Catalyzed by a Porphyrinic Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2015, 54, 9001-9005.	7.2	244
78	Post-Synthesis Modification of a Metalâ€“Organic Framework To Form Metallosalen-Containing MOF Materials. Journal of the American Chemical Society, 2011, 133, 13252-13255.	6.6	243
79	Metalâ€“Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. Chemistry of Materials, 2013, 25, 5012-5017.	3.2	242
80	Activation of metalâ€“organic framework materials. CrystEngComm, 2013, 15, 9258.	1.3	239
81	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	5.8	239
82	Enzyme encapsulation in metalâ€“organic frameworks for applications in catalysis. CrystEngComm, 2017, 19, 4082-4091.	1.3	235
83	99TcO4âˆ’ remediation by a cationic polymeric network. Nature Communications, 2018, 9, 3007.	5.8	234
84	Evaluating topologically diverse metalâ€“organic frameworks for cryo-adsorbed hydrogen storage. Energy and Environmental Science, 2016, 9, 3279-3289.	15.6	231
85	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. Science Advances, 2016, 2, e1600909.	4.7	231
86	DNA-Functionalized Metalâ€“Organic Framework Nanoparticles for Intracellular Delivery of Proteins. Journal of the American Chemical Society, 2019, 141, 2215-2219.	6.6	231
87	Defining the Proton Topology of the Zr₆-Based Metalâ€“Organic Framework NU-1000. Journal of Physical Chemistry Letters, 2014, 5, 3716-3723.	2.1	228
88	Metalâ€“Organic Framework Nodes as Nearly Ideal Supports for Molecular Catalysts: NU-1000- and UiO-66-Supported Iridium Complexes. Journal of the American Chemical Society, 2015, 137, 7391-7396.	6.6	228
89	MetalÃ¢â‚¬â€œOrganic Framework-Based Catalysts: Chemical Fixation of CO2 with Epoxides Leading to Cyclic Organic Carbonates. Frontiers in Energy Research, 2015, 2, .	1.2	225
90	Selective Bifunctional Modification of a Non-catenated Metalâˆ’Organic Framework Material via â€œClickâ€•Chemistry. Journal of the American Chemical Society, 2009, 131, 13613-13615.	6.6	224

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91	Metalâ€“Organic Framework Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane at Low Temperature. ACS Central Science, 2017, 3, 31-38.	5.3	222
92	Gram-scale, high-yield synthesis of a robust metalâ€“organic framework for storing methane and other gases. Energy and Environmental Science, 2013, 6, 1158.	15.6	219
93	A Metalâ€“Organic Framework-Based Material for Electrochemical Sensing of Carbon Dioxide. Journal of the American Chemical Society, 2014, 136, 8277-8282.	6.6	218
94	Catalytic applications of enzymes encapsulated in metalâ€“organic frameworks. Coordination Chemistry Reviews, 2019, 381, 151-160.	9.5	214
95	Engineering ZIFâ€8 Thin Films for Hybrid MOFâ€Based Devices. Advanced Materials, 2012, 24, 3970-3974.	11.1	213
96	An Exceptionally Stable Metalâ€“Organic Framework Supported Molybdenum(VI) Oxide Catalyst for Cyclohexene Epoxidation. Journal of the American Chemical Society, 2016, 138, 14720-14726.	6.6	211
97	Framework-Topology-Dependent Catalytic Activity of Zirconium-Based (Porphinato)zinc(II) MOFs. Journal of the American Chemical Society, 2016, 138, 14449-14457.	6.6	210
98	Toward solar fuels: Water splitting with sunlight and â€œrustâ€?. Coordination Chemistry Reviews, 2012, 256, 2521-2529.	9.5	209
99	Versatile functionalization of the NU-1000 platform by solvent-assisted ligand incorporation. Chemical Communications, 2014, 50, 1965.	2.2	208
100	Dual-Function Metalâ€“Organic Framework as a Versatile Catalyst for Detoxifying Chemical Warfare Agent Simulants. ACS Nano, 2015, 9, 12358-12364.	7.3	207
101	Vanadium-Node-Functionalized UiO-66: A Thermally Stable MOF-Supported Catalyst for the Gas-Phase Oxidative Dehydrogenation of Cyclohexene. ACS Catalysis, 2014, 4, 2496-2500.	5.5	206
102	Nanosizing a Metalâ€“Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. ACS Nano, 2016, 10, 9174-9182.	7.3	202
103	Application of Consistency Criteria To Calculate BET Areas of Micro- And Mesoporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 215-224.	6.6	201
104	Designing Higher Surface Area Metalâ€“Organic Frameworks: Are Triple Bonds Better Than Phenyls?. Journal of the American Chemical Society, 2012, 134, 9860-9863.	6.6	198
105	Synthesis of nanocrystals of Zr-based metalâ€“organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. Chemical Communications, 2015, 51, 10925-10928.	2.2	194
106	<i>In Situ</i> Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. Journal of the American Chemical Society, 2016, 138, 2929-2932.	6.6	194
107	An Interpenetrated Framework Material with Hysteretic CO₂ Uptake. Chemistry - A European Journal, 2010, 16, 276-281.	1.7	192
108	Computational Design of Metalâ€“Organic Frameworks Based on Stable Zirconium Building Units for Storage and Delivery of Methane. Chemistry of Materials, 2014, 26, 5632-5639.	3.2	191

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109	Ni(III)/(IV) Bis(dicarbollide) as a Fast, Noncorrosive Redox Shuttle for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 4580-4582.	6.6	190
110	Turning On Catalysis: Incorporation of a Hydrogen-Bond-Donating Squaramide Moiety into a Zr Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 919-925.	6.6	186
111	Role of Modulators in Controlling the Colloidal Stability and Polydispersity of the UiO-66 Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 33413-33418.	4.0	183
112	The dual capture of As^V and As^{III} by UiO-66 and analogues. Chemical Science, 2016, 7, 6492-6498.	3.7	181
113	Single-Atom-Based Vanadium Oxide Catalysts Supported on Metalâ€“Organic Frameworks: Selective Alcohol Oxidation and Structureâ€“Activity Relationship. Journal of the American Chemical Society, 2018, 140, 8652-8656.	6.6	181
114	Energy-based descriptors to rapidly predict hydrogen storage in metalâ€“organic frameworks. Molecular Systems Design and Engineering, 2019, 4, 162-174.	1.7	179
115	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	1.9	177
116	Probing the correlations between the defects in metalâ€“organic frameworks and their catalytic activity by an epoxide ring-opening reaction. Chemical Communications, 2016, 52, 7806-7809.	2.2	177
117	Successful Decontamination of ⁹⁹TcO₄^{â^’} in Groundwater at Legacy Nuclear Sites by a Cationic Metalâ€Organic Framework with Hydrophobic Pockets. Angewandte Chemie - International Edition, 2019, 58, 4968-4972.	7.2	177
118	Design and Synthesis of a Waterâ€Stable Anionic Uraniumâ€Based Metalâ€“Organic Framework (MOF) with Ultra Large Pores. Angewandte Chemie - International Edition, 2016, 55, 10358-10362.	7.2	175
119	Zirconium-Based Metalâ€“Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. ACS Applied Materials & Interfaces, 2020, 12, 14702-14720.	4.0	175
120	Design Rules of Hydrogen-Bonded Organic Frameworks with High Chemical and Thermal Stabilities. Journal of the American Chemical Society, 2022, 144, 10663-10687.	6.6	174
121	Inverse design of nanoporous crystalline reticular materials with deep generative models. Nature Machine Intelligence, 2021, 3, 76-86.	8.3	172
122	Porphyrin-based metalâ€“organic framework thin films for electrochemical nitrite detection. Electrochemistry Communications, 2015, 58, 51-56.	2.3	171
123	Fabrication of Metalâ€Organic Frameworkâ€Containing Silicaâ€Colloidal Crystals for Vapor Sensing. Advanced Materials, 2011, 23, 4449-4452.	11.1	170
124	Outer-Sphere Redox Couples as Shuttles in Dye-Sensitized Solar Cells. Performance Enhancement Based on Photoelectrode Modification via Atomic Layer Deposition. Journal of Physical Chemistry C, 2008, 112, 19756-19764.	1.5	168
125	Synthesis of catalytically active porous organic polymers from metalloporphyrin building blocks. Chemical Science, 2011, 2, 686.	3.7	168
126	Metalâ€“organic framework (MOF) materials as polymerization catalysts: a review and recent advances. Chemical Communications, 2020, 56, 10409-10418.	2.2	168

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127	Synthesis and characterization of isostructural cadmium zeolitic imidazolate frameworks via solvent-assisted linker exchange. Chemical Science, 2012, 3, 3256.	3.7	166
128	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metalâ€“Organic Framework for Light-Driven CO₂ Reduction. Journal of the American Chemical Society, 2020, 142, 1768-1773.	6.6	163
129	Atomically Precise Growth of Catalytically Active Cobalt Sulfide on Flat Surfaces and within a Metalâ€“Organic Framework <i>via</i> Atomic Layer Deposition. ACS Nano, 2015, 9, 8484-8490.	7.3	158
130	Increased Electrical Conductivity in a Mesoporous Metalâ€“Organic Framework Featuring Metallacarboranes Guests. Journal of the American Chemical Society, 2018, 140, 3871-3875.	6.6	158
131	A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€“organic framework. Chemical Science, 2018, 9, 4477-4482.	3.7	158
132	A Flexible Metalâ€“Organic Framework with 4-Connected Zr₆ Nodes. Journal of the American Chemical Society, 2018, 140, 11179-11183.	6.6	158
133	Tailoring the Pore Size and Functionality of UiO-Type Metalâ€“Organic Frameworks for Optimal Nerve Agent Destruction. Inorganic Chemistry, 2015, 54, 9684-9686.	1.9	157
134	Copper Nanoparticles Installed in Metalâ€“Organic Framework Thin Films are Electrocatalytically Competent for CO₂ Reduction. ACS Energy Letters, 2017, 2, 2394-2401.	8.8	157
135	A â€œclick-basedâ€• porous organic polymer from tetrahedral building blocks. Journal of Materials Chemistry, 2011, 21, 1700.	6.7	156
136	Selective isolation of gold facilitated by second-sphere coordination with Î±-cyclodextrin. Nature Communications, 2013, 4, 1855.	5.8	156
137	Tuning the Surface Chemistry of Metal Organic Framework Nodes: Proton Topology of the Metal-Oxide-Like Zr₆ Nodes of UiO-66 and NU-1000. Journal of the American Chemical Society, 2016, 138, 15189-15196.	6.6	155
138	Catalytic chemoselective functionalization of methane in a metalâ€"organic framework. Nature Catalysis, 2018, 1, 356-362.	16.1	153
139	Toward Inexpensive Photocatalytic Hydrogen Evolution: A Nickel Sulfide Catalyst Supported on a High-Stability Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2016, 8, 20675-20681.	4.0	151
140	Waterâ€Stable Zirconiumâ€Based Metalâ€“Organic Framework Material with Highâ€Surface Area and Gasâ€Storage Capacities. Chemistry - A European Journal, 2014, 20, 12389-12393.	1.7	150
141	Tuning Zr₆ Metalâ€“Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts. ACS Catalysis, 2016, 6, 235-247.	5.5	150
142	Reticular Access to Highly Porous acs-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. Journal of the American Chemical Society, 2019, 141, 2900-2905.	6.6	150
143	A Zn-based, pillared paddlewheel MOF containing free carboxylic acids via covalent post-synthesis elaboration. Chemical Communications, 2009, , 3720.	2.2	149
144	Ultraporous, Water Stable, and Breathing Zirconium-Based Metalâ€“Organic Frameworks with ftw Topology. Journal of the American Chemical Society, 2015, 137, 13183-13190.	6.6	149

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145	Scalable and Template-Free Aqueous Synthesis of Zirconium-Based Metalâ€"Organic Framework Coating on Textile Fiber. Journal of the American Chemical Society, 2019, 141, 15626-15633.	6.6	148
146	MOF-enabled confinement and related effects for chemical catalyst presentation and utilization. Chemical Society Reviews, 2022, 51, 1045-1097.	18.7	148
147	Computational screening of metal-organic frameworks for xenon/krypton separation. AICHE Journal, 2011, 57, 1759-1766.	1.8	147
148	Enhanced Catalytic Activity through the Tuning of Micropore Environment and Supercritical CO₂ Processing: Al(Porphyrin)-Based Porous Organic Polymers for the Degradation of a Nerve Agent Simulant. Journal of the American Chemical Society, 2013, 135, 11720-11723.	6.6	147
149	Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a pyrene-based metalâ€"organic framework. Journal of Materials Chemistry A, 2016, 4, 13809-13813.	5.2	147
150	Benchmark Study of Hydrogen Storage in Metalâ€"Organic Frameworks under Temperature and Pressure Swing Conditions. ACS Energy Letters, 2018, 3, 748-754.	8.8	147
151	Zirconium Metalâ€"Organic Frameworks for Organic Pollutant Adsorption. Trends in Chemistry, 2019, 1, 304-317.	4.4	147
152	Surfaceâ€Specific Functionalization of Nanoscale Metalâ€"Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 14738-14742.	7.2	146
153	Metalâ€"Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 28223-28230.	4.0	145
154	Reticular Chemistry for Highly Porous Metalâ€"Organic Frameworks: The Chemistry and Applications. Accounts of Chemical Research, 2022, 55, 579-591.	7.6	145
155	Chemical reduction of a diimide based porous polymer for selective uptake of carbon dioxide versus methane. Chemical Communications, 2010, 46, 1056.	2.2	144
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