Joseph T Hupp

List of Publications by Year
in descending order

662 papers	99,513 citations	179 152 h-index	289 293 g-index
689 all docs	689 docs citations	689 times ranked	54351 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	Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. Chemistry of Materials, 2016, 28, 2852-2867.	3.2	1,607
6	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
7	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
8	Chemical, thermal and mechanical stabilities of metalâ€“organic frameworks. Nature Reviews Materials, 2016, 1, .	23.3	1,490
9	A facile synthesis of UiO-66, UiO-67 and their derivatives. Chemical Communications, 2013, 49, 9449.	2.2	1,340
10	Rational Design, Synthesis, Purification, and Activation of Metalâ˜Organic Framework Materials. Accounts of Chemical Research, 2010, 43, 1166-1175.	7.6	1,259
11	Large-scale screening of hypothetical metalâ€“organic frameworks. Nature Chemistry, 2012, 4, 83-89.	6.6	1,098
12	Metalâ˜Organic Frameworks as Sensors: A ZIF-8 Based Fabryâ˜PÃ©rot Device as a Selective Sensor for Chemical Vapors and Gases. Journal of the American Chemical Society, 2010, 132, 7832-7833.	6.6	981
13	A metalâ€“organic framework material that functions as an enantioselective catalyst for olefin epoxidation. Chemical Communications, 2006, , 2563-2565.	2.2	920
14	Gold Nanoparticle-Based Sensing of â€œSpectroscopically Silentâ€•Heavy Metal Ions. Nano Letters, 2001, 1, 165-167.	4.5	866
15	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
16	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
17	Porous Organic Polymers in Catalysis: Opportunities and Challenges. ACS Catalysis, 2011, 1, 819-835.	5.5	818
18	Destruction of chemical warfare agents using metalâ€“organic frameworks. Nature Materials, 2015, 14, 512-516.	13.3	790

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19	ZnO Nanotube Based Dye-Sensitized Solar Cells. Nano Letters, 2007, 7, 2183-2187.	4.5	730
20	Beyond post-synthesis modification: evolution of metalâ€“organic frameworks via building block replacement. Chemical Society Reviews, 2014, 43, 5896-5912.	18.7	721
21	Metalâ€“organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. Chemical Society Reviews, 2017, 46, 3357-3385.	18.7	707
22	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
23	Advancing beyond current generation dye-sensitized solar cells. Energy and Environmental Science, 2008, 1, 66.	15.6	663
24	Postsynthetic Tuning of Metalâ€“Organic Frameworks for Targeted Applications. Accounts of Chemical Research, 2017, 50, 805-813.	7.6	644
25	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
26	Chemical Reduction of Metalâˆ’Organic Framework Materials as a Method to Enhance Gas Uptake and Binding. Journal of the American Chemical Society, 2007, 129, 9604-9605.	6.6	591
27	Separation of CO₂ from CH₄ Using Mixed-Ligand Metalâˆ’Organic Frameworks. Langmuir, 2008, 24, 8592-8598.	1.6	557
28	A Catalytically Active, Permanently Microporous MOF with Metalloporphyrin Struts. Journal of the American Chemical Society, 2009, 131, 4204-4205.	6.6	526
29	Synthesis and Optical Properties of â€œBranchedâ€•Gold Nanocrystals. Nano Letters, 2004, 4, 327-330.	4.5	524
30	Best Practices for the Synthesis, Activation, and Characterization of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 26-39.	3.2	518
31	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
32	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
33	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
34	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
35	Microporous Pillared Paddle-Wheel Frameworks Based on Mixed-Ligand Coordination of Zinc Ions. Inorganic Chemistry, 2005, 44, 4912-4914.	1.9	447
36	Distance Dependence of Plasmon-Enhanced Photocurrent in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2009, 131, 8407-8409.	6.6	434

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37	Active-Site-Accessible, Porphyrinic Metalâ˜Organic Framework Materials. Journal of the American Chemical Society, 2011, 133, 5652-5655.	6.6	415
38	Luminescent sensor molecules based on coordinated metals: a review of recent developments. Coordination Chemistry Reviews, 2000, 205, 201-228.	9.5	414
39	Metalâ€“organic framework materials for light-harvesting and energy transfer. Chemical Communications, 2015, 51, 3501-3510.	2.2	409
40	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
41	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
42	Artificial Enzymes Formed through Directed Assembly of Molecular Square Encapsulated Epoxidation Catalysts. Angewandte Chemie - International Edition, 2001, 40, 4239-4242.	7.2	379
43	Enhancement of CO2/N2 selectivity in a metal-organic framework by cavity modification. Journal of Materials Chemistry, 2009, 19, 2131.	6.7	370
44	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
45	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
46	Metal-adeninate vertices for the construction of an exceptionally porous metal-organic framework. Nature Communications, 2012, 3, 604.	5.8	356
47	Carborane-based metalâ€“organic frameworks as highly selective sorbents for CO2 over methane. Chemical Communications, 2008, , 4135.	2.2	349
48	Room-Temperature Synthesis of UiO-66 and Thermal Modulation of Densities of Defect Sites. Chemistry of Materials, 2017, 29, 1357-1361.	3.2	346
49	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesdenâ€“Popper (CH₃(CH₂)₃NH₃)₂(CH₃NH₃)_{n-1}n Perovskites. ACS Energy Letters, 2017, 2, 982-990.	15.8	345
50	Control over Catenation in Metalâ˜Organic Frameworks via Rational Design of the Organic Building Block. Journal of the American Chemical Society, 2010, 132, 950-952.	6.6	344
51	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
52	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
53	Structureâ€“property relationships of porous materials for carbon dioxide separation and capture. Energy and Environmental Science, 2012, 5, 9849.	15.6	334
54	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

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55	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
56	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
57	Supramolecular Coordination Chemistry and Functional Microporous Molecular Materials. Chemistry of Materials, 2001, 13, 3113-3125.	3.2	320
58	Metalâ^'Organic Framework Thin Film for Enhanced Localized Surface Plasmon Resonance Gas Sensing. Analytical Chemistry, 2010, 82, 8042-8046.	3.2	317
59	Luminescent transition-metal-containing cyclophanes (â€œmolecular squaresâ€): covalent self-assembly, host-guest studies and preliminary nanoporous materials applications. Coordination Chemistry Reviews, 1998, 171, 221-243.	9.5	313
60	Post-Synthesis Alkoxide Formation Within Metalâ^'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
61	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
62	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
63	Catalytic Zirconium/Hafnium-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2017, 7, 997-1014.	5.5	288
64	Optical Properties of Metal Nanoshells. Journal of Physical Chemistry B, 2004, 108, 1224-1229.	1.2	282
65	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
66	Are Zr₆-based MOFs water stable? Linker hydrolysis vs. capillary-force-driven channel collapse. Chemical Communications, 2014, 50, 8944.	2.2	277
67	Scalable synthesis and post-modification of a mesoporous metal-organic framework called NU-1000. Nature Protocols, 2016, 11, 149-162.	5.5	276
68	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. Coordination Chemistry Reviews, 2017, 346, 101-111.	9.5	275
69	Synthesis and Optical Properties of Anisotropic Metal Nanoparticles. Journal of Fluorescence, 2004, 14, 331-341.	1.3	273
70	Sintering-Resistant Single-Site Nickel Catalyst Supported by Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 1977-1982.	6.6	273
71	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. Chemistry of Materials, 2009, 21, 3033-3035.	3.2	272
72	Synthesis and Hydrogen Sorption Properties of Carborane Based Metalâ^'Organic Framework Materials. Journal of the American Chemical Society, 2007, 129, 12680-12681.	6.6	269

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73	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
74	Transmetalation: routes to metal exchange within metalâ€“organic frameworks. Journal of Materials Chemistry A, 2013, 1, 5453.	5.2	267
75	Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	11.1	265
76	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
77	Remnant PbI2, an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	2.2	264
78	Kinetic Separation of Propene and Propane in Metalâ€'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
79	Luminescent Rhenium/Palladium Square Complex Exhibiting Excited State Intramolecular Electron Transfer Reactivity and Molecular Anion Sensing Characteristics. Journal of the American Chemical Society, 1995, 117, 11813-11814.	6.6	261
80	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
81	Mechanochemical and solvent-free assembly of zirconium-based metalâ€“organic frameworks. Chemical Communications, 2016, 52, 2133-2136.	2.2	256
82	Electron Transport in Dye-Sensitized Solar Cells Based on ZnO Nanotubes: Evidence for Highly Efficient Charge Collection and Exceptionally Rapid Dynamics. Journal of Physical Chemistry A, 2009, 113, 4015-4021.	1.1	255
83	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
84	New Architectures for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2008, 14, 4458-4467.	1.7	253
85	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	6.6	252
86	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
87	Prospects for nanoporous metal-organic materials in advanced separations processes. AICHE Journal, 2004, 50, 1090-1095.	1.8	249
88	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
89	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
90	Metalâ€“Organic Framework Thin Films Composed of Free-Standing Acicular Nanorods Exhibiting Reversible Electrochromism. Chemistry of Materials, 2013, 25, 5012-5017.	3.2	242

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91	Activation of metalâ€“organic framework materials. CrystEngComm, 2013, 15, 9258.	1.3	239
92	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	5.8	239
93	Enzyme encapsulation in metalâ€“organic frameworks for applications in catalysis. CrystEngComm, 2017, 19, 4082-4091.	1.3	235
94	Synthesis, Characterization, and Preliminary Hostâ˜Guest Binding Studies of Porphyrinic Molecular Squares Featuringfac-Tricarbonylrhenium(I) Chloro Corners. Inorganic Chemistry, 1997, 36, 5422-5423.	1.9	232
95	Evaluating topologically diverse metalâ€“organic frameworks for cryo-adsorbed hydrogen storage. Energy and Environmental Science, 2016, 9, 3279-3289.	15.6	231
96	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. Science Advances, 2016, 2, e1600909.	4.7	231
97	Toward Plasmonic Solar Cells: Protection of Silver Nanoparticles via Atomic Layer Deposition of TiO₂. Langmuir, 2009, 25, 2596-2600.	1.6	230
98	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
99	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
100	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
101	Selective Bifunctional Modification of a Non-catenated Metalâ˜Organic Framework Material via â€œClickâ€•Chemistry. Journal of the American Chemical Society, 2009, 131, 13613-13615.	6.6	224
102	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
103	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
104	Quadratic Nonlinear Optical Properties ofN-Aryl Stilbazolium Dyes. Advanced Functional Materials, 2002, 12, 110-116.	7.8	218
105	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
106	Self-Assembly of Luminescent Molecular Squares Featuring Octahedral Rhenium Corners. Inorganic Chemistry, 1996, 35, 4096-4097.	1.9	216
107	Surface Modification of SnO₂ Photoelectrodes in Dye-Sensitized Solar Cells: Significant Improvements in Photovoltage via Al₂O₃ Atomic Layer Deposition. Journal of Physical Chemistry Letters, 2010, 1, 1611-1615.	2.1	216
108	Synthesis of Silver Nanodisks Using Polystyrene Mesospheres as Templates. Journal of the American Chemical Society, 2002, 124, 15182-15183.	6.6	215

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109	Engineering ZIFâ€8 Thin Films for Hybrid MOFâ€Based Devices. Advanced Materials, 2012, 24, 3970-3974.	11.1	213
110	Dye Sensitized Solar Cells: TiO₂ Sensitization with a Bodipy-Porphyrin Antenna System. Langmuir, 2010, 26, 3760-3765.	1.6	211
111	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
112	Energetics of the Nanocrystalline Titanium Dioxide/Aqueous Solution Interface:â€‰ Approximate Conduction Band Edge Variations between H0 = â^'10 and H- = +26. Journal of Physical Chemistry B, 1999, 103, 4623-4628.	1.2	210
113	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
114	Toward solar fuels: Water splitting with sunlight and â€œrustâ€?. Coordination Chemistry Reviews, 2012, 256, 2521-2529.	9.5	209
115	Versatile functionalization of the NU-1000 platform by solvent-assisted ligand incorporation. Chemical Communications, 2014, 50, 1965.	2.2	208
116	Dual-Function Metalâ€“Organic Framework as a Versatile Catalyst for Detoxifying Chemical Warfare Agent Simulants. ACS Nano, 2015, 9, 12358-12364.	7.3	207
117	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
118	Rhenium-Based Molecular Rectangles as Frameworks for Ligand-Centered Mixed Valency and Optical Electron Transfer. Journal of the American Chemical Society, 2004, 126, 12989-13001.	6.6	204
119	Nanosizing a Metalâ€“Organic Framework Enzyme Carrier for Accelerating Nerve Agent Hydrolysis. ACS Nano, 2016, 10, 9174-9182.	7.3	202
120	Semiconductor-Based Interfacial Electron-Transfer Reactivity:Â Decoupling Kinetics from pH-Dependent Band Energetics in a Dye-Sensitized Titanium Dioxide/Aqueous Solution System. The Journal of Physical Chemistry, 1996, 100, 6867-6870.	2.9	201
121	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
122	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
123	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
124	Dynamics of charge transport and recombination in ZnO nanorod array dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2006, 8, 4655.	1.3	193
125	An Interpenetrated Framework Material with Hysteretic CO₂ Uptake. Chemistry - A European Journal, 2010, 16, 276-281.	1.7	192
126	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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127	Directed Assembly of Transition-Metal-Coordinated Molecular Loops and Squares from Salen-Type Components. Examples of Metalation-Controlled Structural Conversion. Journal of the American Chemical Society, 2004, 126, 6314-6326.	6.6	190
128	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
129	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
130	The dual capture of As^V and As^{III} by UiO-66 and analogues. Chemical Science, 2016, 7, 6492-6498.	3.7	181
131	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
132	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	1.9	177
133	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
134	Molecular Rectangles Based on Rhenium(I) Coordination Chemistry. Journal of the American Chemical Society, 1998, 120, 12982-12983.	6.6	176
135	Alkali Metal Cation Effects on Hydrogen Uptake and Binding in Metal-Organic Frameworks. Inorganic Chemistry, 2008, 47, 7936-7938.	1.9	175
136	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
137	Zirconium-Based Metalâ€“Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. ACS Applied Materials & Interfaces, 2020, 12, 14702-14720.	4.0	175
138	Mucin-Pseudomonas aeruginosa interactions promote biofilm formation and antibiotic resistance. Molecular Microbiology, 2006, 59, 142-151.	1.2	173
139	Porphyrin-containing molecular squares: Design and applications. Coordination Chemistry Reviews, 2006, 250, 1710-1723.	9.5	171
140	Porphyrin-based metalâ€“organic framework thin films for electrochemical nitrite detection. Electrochemistry Communications, 2015, 58, 51-56.	2.3	171
141	Fabrication of Metalâ€Organic Frameworkâ€Containing Silicaâ€Colloidal Crystals for Vapor Sensing. Advanced Materials, 2011, 23, 4449-4452.	11.1	170
142	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
143	Synthesis of catalytically active porous organic polymers from metalloporphyrin building blocks. Chemical Science, 2011, 2, 686.	3.7	168
144	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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145	Synthesis and characterization of isostructural cadmium zeolitic imidazolate frameworks via solvent-assisted linker exchange. Chemical Science, 2012, 3, 3256.	3.7	166
146	Photocurrent Enhancement by Surface Plasmon Resonance of Silver Nanoparticles in Highly Porous Dye-Sensitized Solar Cells. Langmuir, 2011, 27, 14609-14614.	1.6	165
147	Cavity-Tailored, Self-Sorting Supramolecular Catalytic Boxes for Selective Oxidation. Journal of the American Chemical Society, 2008, 130, 16828-16829.	6.6	164
148	CHEMISTRY: Enhanced: Better Living Through Nanopore Chemistry. Science, 2005, 309, 2008-2009.	6.0	161
149	Atomically Precise Growth of Catalytically Active Cobalt Sulfide on Flat Surfaces and within a Metalâ€“Organic Framework via Atomic Layer Deposition. ACS Nano, 2015, 9, 8484-8490.	7.3	158
150	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
151	A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€“organic framework. Chemical Science, 2018, 9, 4477-4482.	3.7	158
152	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
153	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
154	A â€œclick-basedâ€•porous organic polymer from tetrahedral building blocks. Journal of Materials Chemistry, 2011, 21, 1700.	6.7	156
155	Selective isolation of gold facilitated by second-sphere coordination with Î±-cyclodextrin. Nature Communications, 2013, 4, 1855.	5.8	156
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