OmarÂ M Yaghi

List of Publications by Year
in descending order

326 papers	197,278 citations	68 173 h-index	133 332 g-index
380 all docs	380 docs citations	380 times ranked	55408 citing authors

#	Article	IF	Citations
1	The Chemistry and Applications of Metal-Organic Frameworks. Science, 2013, 341, 1230444.	6.0	12,032
2	Reticular synthesis and the design of new materials. Nature, 2003, 423, 705-714.	13.7	8,374
3	Systematic Design of Pore Size and Functionality in Isoreticular MOFs and Their Application in Methane Storage. Science, 2002, 295, 469-472.	6.0	7,254
4	Design and synthesis of an exceptionally stable and highly porous metal-organic framework. Nature, 1999, 402, 276-279.	13.7	7,021
5	Introduction to Metalâ€“Organic Frameworks. Chemical Reviews, 2012, 112, 673-674.	23.0	5,980
6	Exceptional chemical and thermal stability of zeolitic imidazolate frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10186-10191.	3.3	5,906
7	Porous, Crystalline, Covalent Organic Frameworks. Science, 2005, 310, 1166-1170.	6.0	5,574
8	Modular Chemistry:â€‰ Secondary Building Units as a Basis for the Design of Highly Porous and Robust Metalâ˘'Organic Carboxylate Frameworks. Accounts of Chemical Research, 2001, 34, 319-330.	7.6	4,980
9	Hydrogen Storage in Microporous Metal-Organic Frameworks. Science, 2003, 300, 1127-1129.	6.0	4,435
10	High-Throughput Synthesis of Zeolitic Imidazolate Frameworks and Application to CO ₂ Capture. Science, 2008, 319, 939-943.	6.0	3,592
11	Ultrahigh Porosity in Metal-Organic Frameworks. Science, 2010, 329, 424-428.	6.0	3,306
12	A route to high surface area, porosity and inclusion of large molecules in crystals. Nature, 2004, 427, 523-527.	13.7	2,574
13	Metalâ˘'Organic Frameworks with Exceptionally High Capacity for Storage of Carbon Dioxide at Room Temperature. Journal of the American Chemical Society, 2005, 127, 17998-17999.	6.6	2,573
14	Metalâ€“organic frameworks: a new class of porous materials. Microporous and Mesoporous Materials, 2004, 73, 3-14.	2.2	2,520
15	Strategies for Hydrogen Storage in Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2005, 44, 4670-4679.	7.2	2,287
16	Selective binding and removal of guests in a microporous metalâ€“organic framework. Nature, 1995, 378, 703-706.	13.7	2,281
17	Synthesis, Structure, and Carbon Dioxide Capture Properties of Zeolitic Imidazolate Frameworks. Accounts of Chemical Research, 2010, 43, 58-67.	7.6	2,268
18	Secondary building units, nets and bonding in the chemistry of metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1257.	18.7	2,243

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19	Storage of Hydrogen, Methane, and Carbon Dioxide in Highly Porous Covalent Organic Frameworks for Clean Energy Applications. Journal of the American Chemical Society, 2009, 131, 8875-8883.	6.6	2,208
20	The pervasive chemistry of metalâ€"organic frameworks. Chemical Society Reviews, 2009, 38, 1213.	18.7	2,196
21	Rod Packings and Metalâ^'Organic Frameworks Constructed from Rod-Shaped Secondary Building Units. Journal of the American Chemical Society, 2005, 127, 1504-1518.	6.6	2,186
22	Synthetic Strategies, Structure Patterns, and Emerging Properties in the Chemistry of Modular Porous Solids. Accounts of Chemical Research, 1998, 31, 474-484.	7.6	2,133
23	Reticular Chemistry:â€‰ Occurrence and Taxonomy of Nets and Grammar for the Design of Frameworks. Accounts of Chemical Research, 2005, 38, 176-182.	7.6	2,072
24	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO ₂ reduction in water. Science, 2015, 349, 1208-1213.	6.0	2,046
25	The atom, the molecule, and the covalent organic framework. Science, 2017, 355, .	6.0	2,037
26	Designed Synthesis of 3D Covalent Organic Frameworks. Science, 2007, 316, 268-272.	6.0	2,024
27	Water Adsorption in Porous Metalâ€"Organic Frameworks and Related Materials. Journal of the American Chemical Society, 2014, 136, 4369-4381.	6.6	2,002
28	The Reticular Chemistry Structure Resource (RCSR) Database of, and Symbols for, Crystal Nets. Accounts of Chemical Research, 2008, 41, 1782-1789.	7.6	1,953
29	Deconstructing the Crystal Structures of Metalâ€"Organic Frameworks and Related Materials into Their Underlying Nets. Chemical Reviews, 2012, 112, 675-702.	23.0	1,942
30	Large-Pore Apertures in a Series of Metal-Organic Frameworks. Science, 2012, 336, 1018-1023.	6.0	1,729
31	Effects of Functionalization, Catenation, and Variation of the Metal Oxide and Organic Linking Units on the Low-Pressure Hydrogen Adsorption Properties of Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2006, 128, 1304-1315.	6.6	1,710
32	Carbon capture and conversion using metalâ€"organic frameworks and MOF-based materials. Chemical Society Reviews, 2019, 48, 2783-2828.	18.7	1,685
33	Multiple Functional Groups of Varying Ratios in Metal-Organic Frameworks. Science, 2010, 327, 846-850.	6.0	1,607
34	Impact of Preparation and Handling on the Hydrogen Storage Properties of Zn₄O(1,4-benzenedicarboxylate)₃ (MOF-5). Journal of the American Chemical Society, 2007, 129, 14176-14177.	6.6	1,498
35	Colossal cages in zeolitic imidazolate frameworks as selective carbon dioxide reservoirs. Nature, 2008, 453, 207-211.	13.7	1,452
36	Chemistry of Covalent Organic Frameworks. Accounts of Chemical Research, 2015, 48, 3053-3063.	7.6	1,333

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37	A Crystalline Imine-Linked 3-D Porous Covalent Organic Framework. Journal of the American Chemical Society, 2009, 131, 4570-4571.	6.6	1,299
38	Control of Pore Size and Functionality in Isoreticular Zeolitic Imidazolate Frameworks and their Carbon Dioxide Selective Capture Properties. Journal of the American Chemical Society, 2009, 131, 3875-3877.	6.6	1,297
39	Hydrogen Sorption in Functionalized Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2004, 126, 5666-5667.	6.6	1,258
40	Interwoven Metal-Organic Framework on a Periodic Minimal Surface with Extra-Large Pores. Science, 2001, 291, 1021-1023.	6.0	1,211
41	Water harvesting from air with metal-organic frameworks powered by natural sunlight. Science, 2017, 356, 430-434.	6.0	1,179
42	Exceptional H2Saturation Uptake in Microporous Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2006, 128, 3494-3495.	6.6	1,172
43	A Microporous Metalâ€"Organic Framework for Gas-Chromatographic Separation of Alkanes. Angewandte Chemie - International Edition, 2006, 45, 1390-1393.	7.2	1,128
44	The chemistry of metalâ€"organic frameworks for CO2 capture, regeneration and conversion. Nature Reviews Materials, 2017, 2, .	23.3	1,075
45	Establishing Microporosity in Open Metalâ^'Organic Frameworks:Â Gas Sorption Isotherms for Zn(BDC) (BDC = 1,4-Benzenedicarboxylate). Journal of the American Chemical Society, 1998, 120, 8571-8572.	6.6	1,060
46	Highly efficient separation of carbon dioxide by a metal-organic framework replete with open metal sites. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20637-20640.	3.3	1,042
47	Highly Porous and Stable Metalâ^'Organic Frameworks:Â Structure Design and Sorption Properties. Journal of the American Chemical Society, 2000, 122, 1391-1397.	6.6	1,010
48	Topological Analysis of Metalâ€"Organic Frameworks with Polytopic Linkers and/or Multiple Building Units and the Minimal Transitivity Principle. Chemical Reviews, 2014, 114, 1343-1370.	23.0	1,010
49	High H2 Adsorption in a Microporous Metal-Organic Framework with Open Metal Sites. Angewandte Chemie - International Edition, 2005, 44, 4745-4749.	7.2	990
50	Metalâ€"Organic Frameworks for Electrocatalytic Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2015, 137, 14129-14135.	6.6	966
51	Frameworks for Extended Solids: Geometrical Design Principles. Journal of Solid State Chemistry, 2000, 152, 3-20.	1.4	931
52	Zeolite A imidazolate frameworks. Nature Materials, 2007, 6, 501-506.	13.3	917
53	Single-crystal x-ray diffraction structures of covalent organic frameworks. Science, 2018, 361, 48-52.	6.0	868
54	Room temperature synthesis of metal-organic frameworks: MOF-5, MOF-74, MOF-177, MOF-199, and IRMOF-0. Tetrahedron, 2008, 64, 8553-8557.	1.0	853

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55	Reticular Chemistry of Metalâ€"Organic Polyhedra. Angewandte Chemie - International Edition, 2008, 47, 5136-5147.	7.2	849
56	From Condensed Lanthanide Coordination Solids to Microporous Frameworks Having Accessible Metal Sites. Journal of the American Chemical Society, 1999, 121, 1651-1657.	6.6	843
57	Gas Adsorption Sites in a Large-Pore Metal-Organic Framework. Science, 2005, 309, 1350-1354.	6.0	842
58	Exceptional ammonia uptake by a covalent organic framework. Nature Chemistry, 2010, 2, 235-238.	6.6	829
59	Metal-organic frameworks with high capacity and selectivity for harmful gases. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11623-11627.	3.3	820
60	Assembly of Metalâˆ'Organic Frameworks from Large Organic and Inorganic Secondary Building Units:Â New Examples and Simplifying Principles for Complex Structuresâ—µ. Journal of the American Chemical Society, 2001, 123, 8239-8247.	6.6	789
61	Construction of Porous Solids from Hydrogen-Bonded Metal Complexes of 1,3,5-Benzenetricarboxylic Acid. Journal of the American Chemical Society, 1996, 118, 9096-9101.	6.6	769
62	Synthesis, Structure, and Metalation of Two New Highly Porous Zirconium Metalâ€"Organic Frameworks. Inorganic Chemistry, 2012, 51, 6443-6445.	1.9	763
63	Covalent Organic Frameworks as Exceptional Hydrogen Storage Materials. Journal of the American Chemical Society, 2008, 130, 11580-11581.	6.6	746
64	Structures of Metalâ€"Organic Frameworks with Rod Secondary Building Units. Chemical Reviews, 2016, 116, 12466-12535.	23.0	732
65	Crystalline Covalent Organic Frameworks with Hydrazone Linkages. Journal of the American Chemical Society, 2011, 133, 11478-11481.	6.6	731
66	Tailored Porous Materials. Chemistry of Materials, 1999, 11, 2633-2656.	3.2	714
67	Selective Guest Binding by Tailored Channels in a 3-D Porous Zinc(II)âˆ'Benzenetricarboxylate Network. Journal of the American Chemical Society, 1997, 119, 2861-2868.	6.6	701
68	Reticular Synthesis of Microporous and Mesoporous 2D Covalent Organic Frameworks. Journal of the American Chemical Society, 2007, 129, 12914-12915.	6.6	682
69	Design of New Materials for Methane Storage. Langmuir, 2004, 20, 2683-2689.	1.6	663
70	Supercapacitors of Nanocrystalline Metalâ€"Organic Frameworks. ACS Nano, 2014, 8, 7451-7457.	7.3	660
71	Covalent Organic Frameworks with High Charge Carrier Mobility. Chemistry of Materials, 2011, 23, 4094-4097.	3.2	659
72	Crystals as Molecules: Postsynthesis Covalent Functionalization of Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2008, 130, 12626-12627.	6.6	655

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73	Porous Metalâˆ’Organic Polyhedra:â€‰ 25 Ã… Cuboctahedron Constructed from 12 Cu2(CO2)4 Paddle-Wheel Building Blocks. Journal of the American Chemical Society, 2001, 123, 4368-4369.	6.6	639
74	New Porous Crystals of Extended Metal-Catecholates. Chemistry of Materials, 2012, 24, 3511-3513.	3.2	618
75	Design, Synthesis, Structure, and Gas (N2, Ar, CO2, CH4, and H2) Sorption Properties of Porous Metal-Organic Tetrahedral and Heterocuboidal Polyhedra. Journal of the American Chemical Society, 2005, 127, 7110-7118.	6.6	579
76	Metalâ€“Organic Frameworks from Edible Natural Products. Angewandte Chemie - International Edition, 2010, 49, 8630-8634.	7.2	568
77	The role of reticular chemistry in the design of CO2 reduction catalysts. Nature Materials, 2018, 17, 301-307.	13.3	552
78	Independent verification of the saturation hydrogen uptake in MOF-177 and establishment of a benchmark for hydrogen adsorption in metalâ€“organic frameworks. Journal of Materials Chemistry, 2007, 17, 3197.	6.7	536
79	Secondary building units as the turning point in the development of the reticular chemistry of MOFs. Science Advances, 2018, 4, eaat9180.	4.7	533
80	MOF-74 building unit has a direct impact on toxic gas adsorption. Chemical Engineering Science, 2011, 66, 163-170.	1.9	522
81	Metal Insertion in a Microporous Metalâˆ’Organic Framework Lined with 2,2â€²-Bipyridine. Journal of the American Chemical Society, 2010, 132, 14382-14384.	6.6	514
82	A two-dimensional zeolitic imidazolate framework with a cushion-shaped cavity for CO2 adsorption. Chemical Communications, 2013, 49, 9500.	2.2	514
83	Plasmon-Enhanced Photocatalytic CO₂ Conversion within Metalâ€“Organic Frameworks under Visible Light. Journal of the American Chemical Society, 2017, 139, 356-362.	6.6	511
84	Metalâ€“Organic Frameworks for Water Harvesting from Air. Advanced Materials, 2018, 30, e1704304.	11.1	500
85	Control of Vertex Geometry, Structure Dimensionality, Functionality, and Pore Metrics in the Reticular Synthesis of Crystalline Metalâˆ’Organic Frameworks and Polyhedra. Journal of the American Chemical Society, 2008, 130, 11650-11661.	6.6	498
86	Understanding Inflections and Steps in Carbon Dioxide Adsorption Isotherms in Metal-Organic Frameworks. Journal of the American Chemical Society, 2008, 130, 406-407.	6.6	485
87	BrÃ¸nsted Acidity in Metalâ€“Organic Frameworks. Chemical Reviews, 2015, 115, 6966-6997.	23.0	477
88	A Multiunit Catalyst with Synergistic Stability and Reactivity: A Polyoxometalateâ€“Metal Organic Framework for Aerobic Decontamination. Journal of the American Chemical Society, 2011, 133, 16839-16846.	6.6	475
89	â€œHeterogeneity within Orderâ€•in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2015, 54, 3417-3430.	7.2	465
90	Superacidity in Sulfated Metalâ€“Organic Framework-808. Journal of the American Chemical Society, 2014, 136, 12844-12847.	6.6	457

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91	Reticular Electronic Tuning of Porphyrin Active Sites in Covalent Organic Frameworks for Electrocatalytic Carbon Dioxide Reduction. Journal of the American Chemical Society, 2018, 140, 1116-1122.	6.6	457
92	A Microporous Lanthanide-Organic Framework. Angewandte Chemie - International Edition, 1999, 38, 2590-2594.	7.2	452
93	Cu2(ATC)Â·6H2O:Â Design of Open Metal Sites in Porous Metalâˆ'Organic Crystals (ATC:Â 1,3,5,7-Adamantane) Tj ETQq1 1 0.784314 rg	6.6	451
94	Weaving of organic threads into a crystalline covalent organic framework. Science, 2016, 351, 365-369.	6.0	427
95	Three-periodic nets and tilings: regular and quasiregular nets. Acta Crystallographica Section A: Foundations and Advances, 2003, 59, 22-27.	0.3	425
96	Supertetrahedral Sulfide Crystals with Giant Cavities and Channels. Science, 1999, 283, 1145-1147.	6.0	414
97	Mapping of Functional Groups in Metal-Organic Frameworks. Science, 2013, 341, 882-885.	6.0	411
98	High Methane Storage Capacity in Aluminum Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2014, 136, 5271-5274.	6.6	410
99	Practical water production from desert air. Science Advances, 2018, 4, eaat3198.	4.7	406
100	Adsorption-based atmospheric water harvesting device for arid climates. Nature Communications, 2018, 9, 1191.	5.8	401
101	MOF water harvesters. Nature Nanotechnology, 2020, 15, 348-355.	15.6	400
102	Synthesis and Characterization of Metalâ€“Organic Framework-74 Containing 2, 4, 6, 8, and 10 Different Metals. Inorganic Chemistry, 2014, 53, 5881-5883.	1.9	397
103	Large Free Volume in Maximally Interpenetrating Networks:Â The Role of Secondary Building Units Exemplified by Tb2(ADB)3[(CH3)2SO]4Â·16[(CH3)2SO]1. Journal of the American Chemical Society, 2000, 122, 4843-4844.	6.6	396
104	Single-Crystal Structure of a Covalent Organic Framework. Journal of the American Chemical Society, 2013, 135, 16336-16339.	6.6	392
105	Cu2[o-Br-C6H3(CO2)2]2(H2O)2Â·(DMF)8(H2O)2:â€‰ A Framework Deliberately Designed To Have the NbO Structure Type. Journal of the American Chemical Society, 2002, 124, 376-377.	6.6	383
106	Coordinatively Unsaturated Metal Centers in the Extended Porous Framework of Zn3(BDC)3Â·6CH3OH (BDC = 1,4-Benzenedicarboxylate). Journal of the American Chemical Society, 1998, 120, 2186-2187.	6.6	376
107	Definitive Molecular Level Characterization of Defects in UiOâ€66 Crystals. Angewandte Chemie - International Edition, 2015, 54, 11162-11167.	7.2	376
108	The role of metalâ€“organic frameworks in a carbon-neutral energy cycle. Nature Energy, 2016, 1, .	19.8	374

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109	Chemical Conversion of Linkages in Covalent Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 15519-15522.	6.6	373
110	The Chemistry of CO₂ Capture in an Amine-Functionalized Metalâ€“Organic Framework under Dry and Humid Conditions. Journal of the American Chemical Society, 2017, 139, 12125-12128.	6.6	371
111	Copper Nanocrystals Encapsulated in Zr-based Metalâ€“Organic Frameworks for Highly Selective CO₂ Hydrogenation to Methanol. Nano Letters, 2016, 16, 7645-7649.	4.5	370
112	Metalâ€“Organic Frameworks with Precisely Designed Interior for Carbon Dioxide Capture in the Presence of Water. Journal of the American Chemical Society, 2014, 136, 8863-8866.	6.6	369
113	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 5201-5210.	6.6	361
114	Docking in Metal-Organic Frameworks. Science, 2009, 325, 855-859.	6.0	360
115	Geometric requirements and examples of important structures in the assembly of square building blocks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4900-4904.	3.3	353
116	Reticular Synthesis of Covalent Organic Borosilicate Frameworks. Journal of the American Chemical Society, 2008, 130, 11872-11873.	6.6	352
117	Mutually Interpenetrating Sheets and Channels in the Extended Structure of[Cu(4,4â€²-bpy)Cl]. Angewandte Chemie International Edition in English, 1995, 34, 207-209.	4.4	348
118	Strong and Reversible Binding of Carbon Dioxide in a Green Metalâ€“Organic Framework. Journal of the American Chemical Society, 2011, 133, 15312-15315.	6.6	346
119	Rapid Cycling and Exceptional Yield in a Metal-Organic Framework Water Harvester. ACS Central Science, 2019, 5, 1699-1706.	5.3	340
120	Introduction of Functionality, Selection of Topology, and Enhancement of Gas Adsorption in Multivariate Metalâ€“Organic Framework-177. Journal of the American Chemical Society, 2015, 137, 2641-2650.	6.6	339
121	Porous Crystalline Olefin-Linked Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 6848-6852.	6.6	333
122	Covalent Chemistry beyond Molecules. Journal of the American Chemical Society, 2016, 138, 3255-3265.	6.6	328
123	Isoreticular Expansion of Metalâ€“Organic Frameworks with Triangular and Square Building Units and the Lowest Calculated Density for Porous Crystals. Inorganic Chemistry, 2011, 50, 9147-9152.	1.9	322
124	A Combined Experimentalâˆ’Computational Investigation of Carbon Dioxide Capture in a Series of Isoreticular Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2010, 132, 11006-11008.	6.6	303
125	Bioinspired Metalâ€“Organic Framework Catalysts for Selective Methane Oxidation to Methanol. Journal of the American Chemical Society, 2018, 140, 18208-18216.	6.6	301
126	Tunable electrical conductivity in oriented thin films of tetrathiafulvalene-based covalent organic framework. Chemical Science, 2014, 5, 4693-4700.	3.7	295

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127	Infinite Secondary Building Units and Forbidden Catenation in Metal-Organic Frameworks The National Science Foundation support to M.O'K. (DMR- 9804817) and O.M.Y. (DMR-9980469) is gratefully acknowledged.. Angewandte Chemie - International Edition, 2002, 41, 284.	7.2	293
128	Crystalline Dioxin-Linked Covalent Organic Frameworks from Irreversible Reactions. Journal of the American Chemical Society, 2018, 140, 12715-12719.	6.6	289
129	Characterization of H2Binding Sites in Prototypical Metalâˆ'Organic Frameworks by Inelastic Neutron Scattering. Journal of the American Chemical Society, 2005, 127, 14904-14910.	6.6	285
130	Evolution of water structures in metal-organic frameworks for improved atmospheric water harvesting. Science, 2021, 374, 454-459.	6.0	281
131	Chemical Environment Control and Enhanced Catalytic Performance of Platinum Nanoparticles Embedded in Nanocrystalline Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 7810-7816.	6.6	278
132	Metal-Organic Frameworks Based on Trigonal Prismatic Building Blocks and the New â€œacsâ€•Topology. Inorganic Chemistry, 2005, 44, 2998-3000.	1.9	276
133	Three-Dimensional Metal-Catecholate Frameworks and Their Ultrahigh Proton Conductivity. Journal of the American Chemical Society, 2015, 137, 15394-15397.	6.6	274
134	Advances in the chemistry of metalâ€"organic frameworks. CrystEngComm, 2002, 4, 401-404.	1.3	271
135	Isoreticular Metalation of Metalâˆ'Organic Frameworks. Journal of the American Chemical Society, 2009, 131, 9492-9493.	6.6	266
136	Reticular Chemistryâ€"Construction, Properties, and Precision Reactions of Frameworks. Journal of the American Chemical Society, 2016, 138, 15507-15509.	6.6	265
137	Coordinative alignment of molecules in chiral metal-organic frameworks. Science, 2016, 353, 808-811.	6.0	262
138	A Titaniumâ€"Organic Framework as an Exemplar of Combining the Chemistry of Metalâ€" and Covalentâ€"Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 4330-4333.	6.6	260
139	High Methane Storage Working Capacity in Metalâ€"Organic Frameworks with Acrylate Links. Journal of the American Chemical Society, 2016, 138, 10244-10251.	6.6	253
140	Metalâ€"Organic Frameworks for Water Harvesting from Air, Anywhere, Anytime. ACS Central Science, 2020, 6, 1348-1354.	5.3	248
141	What do we know about three-periodic nets?. Journal of Solid State Chemistry, 2005, 178, 2533-2554.	1.4	247
142	Pore Chemistry of Metalâ€"Organic Frameworks. Advanced Functional Materials, 2020, 30, 2000238.	7.8	245
143	Conversion of Imine to Oxazole and Thiazole Linkages in Covalent Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 9099-9103.	6.6	243
144	Taxonomy of periodic nets and the design of materials. Physical Chemistry Chemical Physics, 2007, 9, 1035-1043.	1.3	239

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145	Photophysical pore control in an azobenzene-containing metalâ€“organic framework. Chemical Science, 2013, 4, 2858.	3.7	239
146	Metal Nanocrystals Embedded in Single Nanocrystals of MOFs Give Unusual Selectivity as Heterogeneous Catalysts. Nano Letters, 2014, 14, 5979-5983.	4.5	235
147	Robust dynamics. Nature Chemistry, 2010, 2, 439-443.	6.6	233
148	Covalent Organic Frameworks: Organic Chemistry Extended into Two and Three Dimensions. Trends in Chemistry, 2019, 1, 172-184.	4.4	232
149	Amphidynamic Character of Crystalline MOF-5:â€‰ Rotational Dynamics of Terephthalate Phenylenes in a Free-Volume, Sterically Unhindered Environment. Journal of the American Chemical Society, 2008, 130, 3246-3247.	6.6	229
150	Heterogeneity within Order in Crystals of a Porous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2011, 133, 11920-11923.	6.6	227
151	Porous, Conductive Metalâ€Triazolates and Their Structural Elucidation by the Chargeâ€Flipping Method. Chemistry - A European Journal, 2012, 18, 10595-10601.	1.7	227
152	Selective Capture of Carbon Dioxide under Humid Conditions by Hydrophobic Chabaziteâ€Type Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2014, 53, 10645-10648.	7.2	225
153	Three-periodic nets and tilings: semiregular nets. Acta Crystallographica Section A: Foundations and Advances, 2003, 59, 515-525.	0.3	222
154	A Metalâ€“Organic Framework of Organic Vertices and Polyoxometalate Linkers as a Solid-State Electrolyte. Journal of the American Chemical Society, 2019, 141, 17522-17526.	6.6	216
155	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. Nature, 2015, 527, 503-507.	13.7	212
156	NMR Studies on the Diffusion of Hydrocarbons on the Metal-Organic Framework Material MOF-5. Angewandte Chemie - International Edition, 2006, 45, 2123-2126.	7.2	211
157	Three-periodic nets and tilings: edge-transitive binodal structures. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, 350-355.	0.3	206
158	A Metalâ^'Organic Framework with Covalently Bound Organometallic Complexes. Journal of the American Chemical Society, 2010, 132, 9262-9264.	6.6	206
159	Porous Metalâ^'Organic Truncated Octahedron Constructed from Paddle-Wheel Squares and Terthiophene Links. Journal of the American Chemical Society, 2005, 127, 12752-12753.	6.6	205
160	Design of Frameworks with Mixed Triangular and Octahedral Building Blocks Exemplified by the Structure of[Zn4O(TCA)2] Having the Pyrite Topology. Angewandte Chemie - International Edition, 2003, 42, 3907-3909.	7.2	200
161	Asymmetric catalytic reactions by NbO-type chiral metalâ€“organic frameworks. Chemical Science, 2011, 2, 877.	3.7	199
162	Thermal conductivity of a metal-organic framework (MOF-5): Part II. Measurement. International Journal of Heat and Mass Transfer, 2007, 50, 405-411.	2.5	198

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163	Identification of the strong BrÃ¸nsted acid site in a metalâ€"organic framework solid acid catalyst. Nature Chemistry, 2019, 11, 170-176.	6.6	198
164	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2017, 139, 6448-6455.	6.6	197
165	A Metalâ€"Organic Framework with a Hierarchical System of Pores and Tetrahedral Building Blocks. Angewandte Chemie - International Edition, 2006, 45, 2528-2533.	7.2	196
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