Mohamed Eddaoudi

List of Publications by Year
in descending order

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282 papers	77,932 citations	1463 107 h-index	421 276 g-index
309 all docs	309 docs citations	309 times ranked	34137 citing authors

#	Article	IF	Citations
1	Reticular synthesis and the design of new materials. Nature, 2003, 423, 705-714.	27.8	8,374
2	Systematic Design of Pore Size and Functionality in Isoreticular MOFs and Their Application in Methane Storage. Science, 2002, 295, 469-472.	12.6	7,254
3	Design and synthesis of an exceptionally stable and highly porous metal-organic framework. Nature, 1999, 402, 276-279.	27.8	7,021
4	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.	15.6	4,980
5	Hydrogen Storage in Microporous Metal-Organic Frameworks. Science, 2003, 300, 1127-1129.	12.6	4,435
6	A route to high surface area, porosity and inclusion of large molecules in crystals. Nature, 2004, 427, 523-527.	27.8	2,574
7	Rod Packings and Metalâ^'Organic Frameworks Constructed from Rod-Shaped Secondary Building Units. Journal of the American Chemical Society, 2005, 127, 1504-1518.	13.7	2,186
8	Porous materials with optimal adsorption thermodynamics and kinetics for CO2 separation. Nature, 2013, 495, 80-84.	27.8	2,005
9	Interwoven Metal-Organic Framework on a Periodic Minimal Surface with Extra-Large Pores. Science, 2001, 291, 1021-1023.	12.6	1,211
10	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.	13.7	1,060
11	Gas/vapour separation using ultra-microporous metalâ€“organic frameworks: insights into the structure/separation relationship. Chemical Society Reviews, 2017, 46, 3402-3430.	38.1	1,033
12	Highly Porous and Stable Metalâ^'Organic Frameworks:Â Structure Design and Sorption Properties. Journal of the American Chemical Society, 2000, 122, 1391-1397.	13.7	1,010
13	Frameworks for Extended Solids: Geometrical Design Principles. Journal of Solid State Chemistry, 2000, 152, 3-20.	2.9	931
14	A metal-organic frameworkâ€“based splitter for separating propylene from propane. Science, 2016, 353, 137-140.	12.6	892
15	From Condensed Lanthanide Coordination Solids to Microporous Frameworks Having Accessible Metal Sites. Journal of the American Chemical Society, 1999, 121, 1651-1657.	13.7	843
16	Assembly of Metalâ^'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.	13.7	789
17	A supermolecular building approach for the design and construction of metalâ€“organic frameworks. Chemical Society Reviews, 2014, 43, 6141-6172.	38.1	708
18	Zeolite-like metalâ€“organic frameworks (ZMOFs): design, synthesis, and properties. Chemical Society Reviews, 2015, 44, 228-249.	38.1	662

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19	Porous Metalâ^'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.	13.7	639
20	Assembly of Metalâ€“Organic Frameworks (MOFs) Based on Indium-Trimer Building Blocks: A Porous MOF with soc Topology and High Hydrogen Storage. Angewandte Chemie - International Edition, 2007, 46, 3278-3283.	13.8	633
21	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH₄, O₂, and CO₂ Storage. Journal of the American Chemical Society, 2015, 137, 13308-13318.	13.7	632
22	Supermolecular Building Blocks (SBBs) for the Design and Synthesis of Highly Porous Metal-Organic Frameworks. Journal of the American Chemical Society, 2008, 130, 1833-1835.	13.7	628
23	Layered Mg_xV₂O₅Â·nH₂O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. ACS Energy Letters, 2018, 3, 2602-2609.	17.4	581
24	Zeolite-like Metalâ^'Organic Frameworks as Platforms for Applications: On Metalloporphyrin-Based Catalysts. Journal of the American Chemical Society, 2008, 130, 12639-12641.	13.7	579
25	Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. Nature Communications, 2014, 5, 4228.	12.8	510
26	Tunable Rare-Earth fcu-MOFs: A Platform for Systematic Enhancement of CO₂ Adsorption Energetics and Uptake. Journal of the American Chemical Society, 2013, 135, 7660-7667.	13.7	474
27	Zeolite-like Metalâ^'Organic Frameworks (ZMOFs) as Hydrogen Storage Platform: Lithium and Magnesium Ion-Exchange and H₂-(rho-ZMOF) Interaction Studies. Journal of the American Chemical Society, 2009, 131, 2864-2870.	13.7	456
28	A Microporous Lanthanide-Organic Framework. Angewandte Chemie - International Edition, 1999, 38, 2590-2594.	13.8	452
29	Cu2(ATC)Â·6H2O:Â Design of Open Metal Sites in Porous Metalâ^'Organic Crystals (ATC:Â 1,3,5,7-Adamantane) Tj ETQq1 1 0.784314	13.7	451
30	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. Nature Materials, 2018, 17, 283-289.	27.5	449
31	Molecular building blocks approach to the assembly of zeolite-like metalâ€“organic frameworks (ZMOFs) with extra-large cavities. Chemical Communications, 2006, , 1488.	4.1	438
32	Molecular enhancement of heterogeneous CO2 reduction. Nature Materials, 2020, 19, 266-276.	27.5	416
33	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.	13.7	396
34	Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metalâ€“organic frameworks. Nature Chemistry, 2014, 6, 673-680.	13.6	396
35	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.	13.7	383
36	Imaging defects and their evolution in a metalâ€“organic framework at sub-unit-cell resolution. Nature Chemistry, 2019, 11, 622-628.	13.6	371

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37	Ag₂₉(BDT)₁₂(TPP)₄: A Tetravalent Nanocluster. Journal of the American Chemical Society, 2015, 137, 11970-11975.	13.7	369
38	A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO₂ Removal and Air Capture Using Physisorption. Journal of the American Chemical Society, 2016, 138, 9301-9307.	13.7	366
39	Temperature and Concentration Control over Interpenetration in a Metalâ˜Organic Material. Journal of the American Chemical Society, 2009, 131, 17040-17041.	13.7	361
40	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.	7.1	353
41	Metalâ€“Organic Frameworks Mediate Cu Coordination for Selective CO₂ Electroreduction. Journal of the American Chemical Society, 2018, 140, 11378-11386.	13.7	326
42	Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. Journal of the American Chemical Society, 2015, 137, 5034-5040.	13.7	308
43	Supermolecular Building Blocks (SBBs) and Crystal Design:â€‰ 12-Connected Open Frameworks Based on a Molecular Cubohemioctahedron. Journal of the American Chemical Society, 2008, 130, 1560-1561.	13.7	300
44	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.	13.8	293
45	Fluorinated MOF platform for selective removal and sensing of SO2 from flue gas and air. Nature Communications, 2019, 10, 1328.	12.8	292
46	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. CheM, 2018, 4, 94-105.	11.7	282
47	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. Science, 2017, 356, 731-735.	12.6	275
48	Advances in the chemistry of metalâ€“organic frameworks. CrystEngComm, 2002, 4, 401-404.	2.6	271
49	Synthesis and Integration of Fe-soc-MOF Cubes into Colloidosomes via a Single-Step Emulsion-Based Approach. Journal of the American Chemical Society, 2013, 135, 10234-10237.	13.7	267
50	Low concentration CO2 capture using physical adsorbents: Are metalâ€“organic frameworks becoming the new benchmark materials?. Chemical Engineering Journal, 2016, 296, 386-397.	12.7	260
51	Templateâ€Directed Assembly of Zeoliteâ€like Metalâ€“Organic Frameworks (ZMOFs): A usfâ€ZMOF with an Unprecedented Zeolite Topology. Angewandte Chemie - International Edition, 2008, 47, 8446-8449.	13.8	259
52	Templated Synthesis, Postsynthetic Metal Exchange, and Properties of a Porphyrin-Encapsulating Metalâ€“Organic Material. Journal of the American Chemical Society, 2012, 134, 924-927.	13.7	238
53	Metalâ€“Organic Framework-Based Separators for Enhancing Liâ€“S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. ACS Energy Letters, 2017, 2, 2362-2367.	17.4	229
54	A Fine-Tuned Metalâ€“Organic Framework for Autonomous Indoor Moisture Control. Journal of the American Chemical Society, 2017, 139, 10715-10722.	13.7	224

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55	Ultraâ€Tuning of the Rareâ€Earth fcuâ€MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. Angewandte Chemie - International Edition, 2015, 54, 14353-14358.	13.8	222
56	MOFs for the Sensitive Detection of Ammonia: Deployment of fcu-MOF Thin Films as Effective Chemical Capacitive Sensors. ACS Sensors, 2017, 2, 1294-1301.	7.8	220
57	Natural gas upgrading using a fluorinated MOF with tuned H2S and CO2 adsorption selectivity. Nature Energy, 2018, 3, 1059-1066.	39.5	214
58	H₂S Sensors: Fumarateâ€Based fcuâ€MOF Thin Film Grown on a Capacitive Interdigitated Electrode. Angewandte Chemie - International Edition, 2016, 55, 15879-15883.	13.8	213
59	25 Years of Reticular Chemistry. Angewandte Chemie - International Edition, 2021, 60, 23946-23974.	13.8	204
60	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 7245-7249.	13.7	203
61	Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH₄ Storage. Journal of the American Chemical Society, 2016, 138, 1568-1574.	13.7	193
62	On the Mechanism of Hydrogen Storage in a Metalâ^'Organic Framework Material. Journal of the American Chemical Society, 2007, 129, 15202-15210.	13.7	182
63	Solution processable metalâ€“organic frameworks for mixed matrix membranes using porous liquids. Nature Materials, 2020, 19, 1346-1353.	27.5	181
64	Quest for Zeolite-like Metalâ^'Organic Frameworks:â€‰ On Pyrimidinecarboxylate Bis-Chelating Bridging Ligands. Journal of the American Chemical Society, 2008, 130, 3768-3770.	13.7	178
65	Enabling Fluorinated MOFâ€Based Membranes for Simultaneous Removal of H₂S and CO₂ from Natural Gas. Angewandte Chemie - International Edition, 2018, 57, 14811-14816.	13.8	176
66	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. ACS Energy Letters, 2020, 5, 2256-2264.	17.4	175
67	Advanced Fabrication Method for the Preparation of MOF Thin Films: Liquid-Phase Epitaxy Approach Meets Spin Coating Method. ACS Applied Materials & Interfaces, 2016, 8, 20459-20464.	8.0	170
68	The liquid phase epitaxy approach for the successful construction of ultra-thin and defect-free ZIF-8 membranes: pure and mixed gas transport study. Chemical Communications, 2014, 50, 2089.	4.1	167
69	[Ag₆₇(SPhMe₂)₃₂(PPh₃)₈]³⁺: Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. Journal of the American Chemical Society, 2016, 138, 14727-14732.	13.7	167
70	4-Connected Metalâ^'Organic Assemblies Mediated via Heterochelation and Bridging of Single Metal Ions:Â KagomÃ© Lattice and the M6L12Octahedron. Journal of the American Chemical Society, 2005, 127, 7266-7267.	13.7	166
71	A reticular chemistry guide for the design of periodic solids. Nature Reviews Materials, 2021, 6, 466-487.	48.7	166
72	The unique rht-MOF platform, ideal for pinpointing the functionalization and CO₂adsorption relationship. Chemical Communications, 2012, 48, 1455-1457.	4.1	163

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73	Quest for Highly Connected Metalâ€“Organic Framework Platforms: Rare-Earth Polynuclear Clusters Versatility Meets Net Topology Needs. Journal of the American Chemical Society, 2015, 137, 5421-5430.	13.7	163
74	Asymmetric pore windows in MOF membranes for natural gas valorization. Nature, 2022, 606, 706-712.	27.8	163
75	Recent Progress on Microfine Design of Metalâ€“Organic Frameworks: Structure Regulation and Gas Sorption and Separation. Advanced Materials, 2020, 32, e2002563.	21.0	160
76	Rational design of mixed-matrix metal-organic framework membranes for molecular separations. Science, 2022, 376, 1080-1087.	12.6	160
77	Zeolite-like Metalâ^'Organic Frameworks (ZMOFs) Based on the Directed Assembly of Finite Metalâ^'Organic Cubes (MOCs). Journal of the American Chemical Society, 2009, 131, 17753-17755.	13.7	156
78	The Next Chapter in MOF Pillaring Strategies: Trigonal Heterofunctional Ligands To Access Targeted High-Connected Three Dimensional Nets, Isoreticular Platforms. Journal of the American Chemical Society, 2011, 133, 17532-17535.	13.7	155
79	Template-Directed Synthesis of Nets Based upon Octahemioctahedral Cages That Encapsulate Catalytically Active Metalloporphyrins. Journal of the American Chemical Society, 2012, 134, 928-933.	13.7	155
80	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zincâ€ion Batteries. Advanced Materials, 2021, 33, e2103617.	21.0	151
81	Reticular Chemistry 3.2: Typical Minimal Edge-Transitive Derived and Related Nets for the Design and Synthesis of Metalâ€“Organic Frameworks. Chemical Reviews, 2020, 120, 8039-8065.	47.7	149
82	Insights on Adsorption Characterization of Metal-Organic Frameworks: A Benchmark Study on the Novel soc-MOF. Microporous and Mesoporous Materials, 2010, 129, 345-353.	4.4	148
83	Directed assembly of metalâ€“organic cubes from deliberately predesigned molecular building blocks. Chemical Communications, 2004, , 2806-2807.	4.1	146
84	Conductive Metalâ€“Organic Frameworks Selectively Grown on Laserâ€Scribed Graphene for Electrochemical Microsupercapacitors. Advanced Energy Materials, 2019, 9, 1900482.	19.5	142
85	Highly Monodisperse M^{III}-Based soc-MOFs (M = In and Ga) with Cubic and Truncated Cubic Morphologies. Journal of the American Chemical Society, 2012, 134, 13176-13179.	13.7	138
86	Quest for Anionic MOF Membranes: Continuous sod-ZMOF Membrane with CO₂ Adsorption-Driven Selectivity. Journal of the American Chemical Society, 2015, 137, 1754-1757.	13.7	138
87	Exceptional Stability and High Hydrogen Uptake in Hydrogen-Bonded Metalâ^'Organic Cubes Possessing ACO and AST Zeolite-like Topologies. Journal of the American Chemical Society, 2009, 131, 10394-10396.	13.7	136
88	A facile solvent-free synthesis route for the assembly of a highly CO₂ selective and H₂S tolerant NiSIFSIX metalâ€“organic framework. Chemical Communications, 2015, 51, 13595-13598.	4.1	134
89	Intermediate Binding Control Using Metalâ€“Organic Frameworks Enhances Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2020, 142, 21513-21521.	13.7	133
90	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. Journal of the American Chemical Society, 2019, 141, 9585-9592.	13.7	132

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91	Highly sensitive and selective SO₂ MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. Journal of Materials Chemistry A, 2018, 6, 5550-5554.	10.3	131
92	CsPb₂Br₅ Single Crystals: Synthesis and Characterization. ChemSusChem, 2017, 10, 3746-3749.	6.8	130
93	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metalâ€“Organic Framework Platforms. Journal of the American Chemical Society, 2018, 140, 8858-8867.	13.7	129
94	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connectedftw-MOFs. Chemical Science, 2015, 6, 4095-4102.	7.4	127
95	From Metalâ^'Organic Squares to Porous Zeolite-like Supramolecular Assemblies. Journal of the American Chemical Society, 2010, 132, 18038-18041.	13.7	126
96	Hostâ€“Guest Chirality Interplay: A Mutually Induced Formation of a Chiral ZMOF and Its Double-Helix Polymer Guests. Journal of the American Chemical Society, 2016, 138, 786-789.	13.7	125
97	The quest for highly sensitive QCM humidity sensors: The coating of CNT/MOF composite sensing films as case study. Sensors and Actuators B: Chemical, 2018, 257, 609-619.	7.8	123
98	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. Sensors, 2015, 15, 18153-18166.	3.8	120
99	Network Diversity through Decoration of Trigonalâ€Prismatic Nodes: Twoâ€Step Crystal Engineering of Cationic Metalâ€“Organic Materials. Angewandte Chemie - International Edition, 2011, 50, 11421-11424.	13.8	118
100	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. CheM, 2019, 5, 950-963.	11.7	118
101	Nanosheets of Nonlayered Aluminum Metalâ€“Organic Frameworks through a Surfactantâ€Assisted Method. Advanced Materials, 2018, 30, e1707234.	21.0	117
102	Conformationâ€Controlled Molecular Sieving Effects for Membraneâ€Based Propylene/Propane Separation. Advanced Materials, 2019, 31, e1807513.	21.0	117
103	On Demand: The Singular rht Net, an Ideal Blueprint for the Construction of a Metalâ€“Organic Framework (MOF) Platform. Angewandte Chemie - International Edition, 2012, 51, 10099-10103.	13.8	116
104	Electrochemical synthesis of continuous metalâ€“organic framework membranes for separation of hydrocarbons. Nature Energy, 2021, 6, 882-891.	39.5	115
105	Tertiary Building Units:Â Synthesis, Structure, and Porosity of a Metalâ^'Organic Dendrimer Framework (MODF-1)âŠ¥. Journal of the American Chemical Society, 2001, 123, 11482-11483.	13.7	113
106	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 4155-4162.	8.0	113
107	Porous organic polymers with anchored aldehydes: a new platform for post-synthetic amine functionalization en route for enhanced CO2 adsorption properties. Chemical Communications, 2014, 50, 1937.	4.1	112
108	MXene Derived Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 20037-20042.	13.7	110

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109	Polyoxometalateâ€“Cyclodextrin Metalâ€“Organic Frameworks: From Tunable Structure to Customized Storage Functionality. Journal of the American Chemical Society, 2019, 141, 1847-1851.	13.7	110
110	Title is missing!. Chemical Communications, 2001, , 2534-2535.	4.1	109
111	The Quest for Modular Nanocages: tbo-MOF as an Archetype for Mutual Substitution, Functionalization, and Expansion of Quadrangular Pillar Building Blocks. Journal of the American Chemical Society, 2011, 133, 14204-14207.	13.7	109
112	High-Capacity NH₄⁺ Charge Storage in Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 19178-19186.	13.7	109
113	Energy Transfer in Metalâ€“Organic Frameworks for Fluorescence Sensing. ACS Applied Materials & Interfaces, 2022, 14, 9970-9986.	8.0	109
114	Porous Germanates:Â Synthesis, Structure, and Inclusion Properties of Ge7O14.5F2Â·[(CH3)2NH2]3(H2O)0.86. Journal of the American Chemical Society, 1998, 120, 8567-8568.	13.7	108
115	Noninterpenetrating Indium Sulfide Supertetrahedral Cristobalite Framework. Journal of the American Chemical Society, 1999, 121, 6096-6097.	13.7	107
116	CO₂conversion: the potential of porous-organic polymers (POPs) for catalytic CO₂â€“epoxide insertion. Journal of Materials Chemistry A, 2016, 4, 7453-7460.	10.3	107
117	Covalent Organic Frameworks as Negative Electrodes for Highâ€Performance Asymmetric Supercapacitors. Advanced Energy Materials, 2020, 10, 2001673.	19.5	107
118	Postâ€Synthetic Modification of Porphyrinâ€Encapsulating Metalâ€“Organic Materials by Cooperative Addition of Inorganic Salts to Enhance CO₂CH₄ Selectivity. Angewandte Chemie - International Edition, 2012, 51, 9330-9334.	13.8	106
119	A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO₂ capture and hydrocarbon separation. Journal of Materials Chemistry A, 2015, 3, 6276-6281.	10.3	105
120	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. Journal of the American Chemical Society, 2017, 139, 3265-3274.	13.7	104
121	Achieving Superprotonic Conduction with a 2D Fluorinated Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 13156-13160.	13.7	103
122	The liquid phase epitaxy method for the construction of oriented ZIF-8 thin films with controlled growth on functionalized surfaces. Chemical Communications, 2013, 49, 10079.	4.1	101
123	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. Journal of the American Chemical Society, 2016, 138, 12767-12770.	13.7	101
124	Synthesis of Organic Photodimeric Cage Molecules Based on Cycloaddition via Metalâ^'Ligand Directed Assembly. Journal of the American Chemical Society, 2007, 129, 5820-5821.	13.7	99
125	Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. Chemical Communications, 2012, 48, 11434.	4.1	98
126	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [Pt₂Ag₂₃Cl₇(PPh₃)₁₀] Nanoclusters. Journal of the American Chemical Society, 2017, 139, 1053-1056.	13.7	98

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127	Isoreticular rare earth fcu-MOFs for the selective removal of H2S from CO2 containing gases. Chemical Engineering Journal, 2017, 324, 392-396.	12.7	98
128	An Open-Framework Germanate with Polycubane-Like Topology. Angewandte Chemie - International Edition, 1999, 38, 653-655.	13.8	94
129	Stepwise Transformation of the Molecular Building Blocks in a Porphyrin-Encapsulating Metalâ€“Organic Material. Journal of the American Chemical Society, 2013, 135, 5982-5985.	13.7	94
130	Metalâ€“organic frameworks to satisfy gas upgrading demands: fine-tuning thesoc-MOF platform for the operative removal of H₂S. Journal of Materials Chemistry A, 2017, 5, 3293-3303.	10.3	94
131	A Family of Porous Lonsdaleite-e Networks Obtained through Pillaring of Decorated KagomÃ© Lattice Sheets. Journal of the American Chemical Society, 2013, 135, 14016-14019.	13.7	93
132	The asc Trinodal Platform: Twoâ€Step Assembly of Triangular, Tetrahedral, and Trigonalâ€Prismatic Molecular Building Blocks. Angewandte Chemie - International Edition, 2013, 52, 2902-2905.	13.8	88
133	Valuing Metalâ€“Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. Advanced Materials, 2017, 29, 1702953.	21.0	88
134	Enhanced CO₂/CH₄ Separation Performance of a Mixed Matrix Membrane Based on Tailored MOFâ€Polymer Formulations. Advanced Science, 2018, 5, 1800982.	11.2	88
135	2D Covalentâ€Organic Framework Electrodes for Supercapacitors and Rechargeable Metalâ€Ion Batteries. Advanced Energy Materials, 2022, 12, 2100177.	19.5	87
136	A Titanium Metalâ€“Organic Framework with Visibleâ€Lightâ€Responsive Photocatalytic Activity. Angewandte Chemie - International Edition, 2020, 59, 13468-13472.	13.8	84
137	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. CheM, 2017, 3, 822-833.	11.7	83
138	Construction of Three Metalâ€'Organic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H₃PyImDC. Crystal Growth and Design, 2010, 10, 3489-3495.	3.0	82
139	Efficient transfer hydrogenation reaction Catalyzed by a dearomatized PN3P ruthenium pincer complex under base-free Conditions. Journal of Organometallic Chemistry, 2012, 700, 202-206.	1.8	81
140	Trianglamine-Based Supramolecular Organic Framework with Permanent Intrinsic Porosity and Tunable Selectivity. Journal of the American Chemical Society, 2018, 140, 14571-14575.	13.7	78
141	Design and synthesis of metal-carboxylate frameworks with permanent microporosity. Topics in Catalysis, 1999, 9, 105-111.	2.8	77
142	Hydrocarbon recovery using ultra-microporous fluorinated MOF platform with and without uncoordinated metal sites: I- structure properties relationships for C2H2/C2H4 and CO2/C2H2 separation. Chemical Engineering Journal, 2019, 359, 32-36.	12.7	77
143	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. Chemistry of Materials, 2018, 30, 2719-2725.	6.7	76
144	A Polymorphic Azobenzene Cage for Energyâ€Efficient and Highly Selective pâ€Xylene Separation. Angewandte Chemie - International Edition, 2020, 59, 21367-21371.	13.8	76

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145	Realization of an Ultrasensitive and Highly Selective OFET NO₂ Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrinâ€“MOF. ACS Applied Materials & Interfaces, 2020, 12, 18748-18760.	8.0	75
146	Understanding Hydrogen Sorption in a Metalâ€“Organic Framework with Open-Metal Sites and Amide Functional Groups. Journal of Physical Chemistry C, 2013, 117, 9340-9354.	3.1	74
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