

# Mohamed Eddaoudi

## List of Publications by Citations

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279  
papers

64,932  
citations

93  
h-index

254  
g-index

309  
ext. papers

70,894  
ext. citations

13.1  
avg, IF

7.76  
L-index

#	Paper	IF	Citations
279	Reticular synthesis and the design of new materials. <i>Nature</i> , <b>2003</b> , 423, 705-14	50.4	7597
278	Systematic design of pore size and functionality in isorecticular MOFs and their application in methane storage. <i>Science</i> , <b>2002</b> , 295, 469-72	33.3	6475
277	Design and synthesis of an exceptionally stable and highly porous metal-organic framework. <i>Nature</i> , <b>1999</b> , 402, 276-279	50.4	5851
276	Modular chemistry: secondary building units as a basis for the design of highly porous and robust metal-organic carboxylate frameworks. <i>Accounts of Chemical Research</i> , <b>2001</b> , 34, 319-30	24.3	4600
275	Hydrogen storage in microporous metal-organic frameworks. <i>Science</i> , <b>2003</b> , 300, 1127-9	33.3	4026
274	A route to high surface area, porosity and inclusion of large molecules in crystals. <i>Nature</i> , <b>2004</b> , 427, 523-7	50.4	2337
273	Rod packings and metal-organic frameworks constructed from rod-shaped secondary building units. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1504-18	16.4	1963
272	Porous materials with optimal adsorption thermodynamics and kinetics for CO <sub>2</sub> separation. <i>Nature</i> , <b>2013</b> , 495, 80-4	50.4	1677
271	Interwoven metal-organic framework on a periodic minimal surface with extra-large pores. <i>Science</i> , <b>2001</b> , 291, 1021-3	33.3	1089
270	Highly Porous and Stable Metal-Organic Frameworks: Structure Design and Sorption Properties. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 1391-1397	16.4	901
269	Establishing Microporosity in Open Metal-Organic Frameworks: Gas Sorption Isotherms for Zn(BDC) (BDC = 1,4-Benzenedicarboxylate). <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8571-8572	16.4	893
268	Frameworks for Extended Solids: Geometrical Design Principles. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 152, 3-20	3.3	840
267	Gas/vapour separation using ultra-microporous metal-organic frameworks: insights into the structure/separation relationship. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3402-3430	58.5	791
266	From Condensed Lanthanide Coordination Solids to Microporous Frameworks Having Accessible Metal Sites. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 1651-1657	16.4	765
265	Assembly of metal-organic frameworks from large organic and inorganic secondary building units: new examples and simplifying principles for complex structures. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8239-47	16.4	734
264	A metal-organic framework-based splitter for separating propylene from propane. <i>Science</i> , <b>2016</b> , 353, 137-40	33.3	654
263	A supermolecular building approach for the design and construction of metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 6141-72	58.5	609

262	Assembly of metal-organic frameworks (MOFs) based on indium-trimer building blocks: a porous MOF with soc topology and high hydrogen storage. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3278-83	16.4	593
261	Supramolecular building blocks (SBBs) for the design and synthesis of highly porous metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1833-5	16.4	586
260	Zeolite-like metal-organic frameworks (ZMOFs): design, synthesis, and properties. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 228-49	58.5	573
259	Porous metal-organic polyhedra: 25 A cuboctahedron constructed from 12 Cu <sub>2</sub> (CO <sub>2</sub> ) <sub>4</sub> paddle-wheel building blocks. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 4368-9	16.4	561
258	Zeolite-like metal-organic frameworks as platforms for applications: on metalloporphyrin-based catalysts. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12639-41	16.4	540
257	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH <sub>4</sub> , O <sub>2</sub> , and CO <sub>2</sub> Storage. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13308-18	16.4	475
256	Zeolite-like metal-organic frameworks (ZMOFs) as hydrogen storage platform: lithium and magnesium ion-exchange and H <sub>2</sub> -(rho-ZMOF) interaction studies. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2864-70	16.4	424
255	Molecular building blocks approach to the assembly of zeolite-like metal-organic frameworks (ZMOFs) with extra-large cavities. <i>Chemical Communications</i> , <b>2006</b> , 1488-90	5.8	418
254	A Microporous Lanthanide-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 2590-2594	16.4	410
253	Tunable rare-earth fcu-MOFs: a platform for systematic enhancement of CO <sub>2</sub> adsorption energetics and uptake. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7660-7	16.4	406
252	Cu <sub>2</sub> (ATC)·6H <sub>2</sub> O: Design of Open Metal Sites in Porous Metal-Organic Crystals (ATC: 1,3,5,7-Adamantane Tetracarboxylate). <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11559-11560	16.4	391
251	Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. <i>Nature Communications</i> , <b>2014</b> , 5, 4228	17.4	382
250	Layered Mg <sub>2</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2602-2609	20.1	381
249	Large Free Volume in Maximally Interpenetrating Networks: The Role of Secondary Building Units Exemplified by Tb <sub>2</sub> (ADB) <sub>3</sub> [(CH <sub>3</sub> ) <sub>2</sub> SO] <sub>4</sub> ·6[(CH <sub>3</sub> ) <sub>2</sub> SO]. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4843-4844	16.4	363
248	Temperature and concentration control over interpenetration in a metal-organic material. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17040-1	16.4	353
247	Cu <sub>2</sub> [o-Br-C(6)H(3)(CO(2))(2)](2)(H(2)O)(2).(DMF)(8)(H(2)O)(2): a framework deliberately designed to have the NbO structure type. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 376-7	16.4	345
246	Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metal-organic frameworks. <i>Nature Chemistry</i> , <b>2014</b> , 6, 673-80	17.6	333
245	Geometric requirements and examples of important structures in the assembly of square building blocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4900-4	11.5	327

- 244 Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. *Nature Materials*, **2018**, 17, 283-289 27 298
- 243 Supermolecular building blocks (SBBs) and crystal design: 12-connected open frameworks based on a molecular cubohemioctahedron. *Journal of the American Chemical Society*, **2008**, 130, 1560-1 16.4 291
- 242 Ag<sub>29</sub>(BDT)<sub>12</sub>(TPP)<sub>4</sub>: A Tetravalent Nanocluster. *Journal of the American Chemical Society*, **2015**, 137, 11970-5 16.4 284
- 241 Infinite secondary building units and forbidden catenation in metal-organic frameworks. *Angewandte Chemie - International Edition*, **2002**, 41, 284-7 16.4 263
- 240 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, 5034-40 16.4 261
- 239 Template-directed assembly of zeolite-like metal-organic frameworks (ZMOFs): a usf-ZMOF with an unprecedented zeolite topology. *Angewandte Chemie - International Edition*, **2008**, 47, 8446-9 16.4 248
- 238 A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO<sub>2</sub> Removal and Air Capture Using Physisorption. *Journal of the American Chemical Society*, **2016**, 138, 9301-7 16.4 244
- 237 Advances in the chemistry of metal-organic frameworks. *CrystEngComm*, **2002**, 4, 401-404 3.3 239
- 236 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, 10234-7 16.4 228
- 235 Templated synthesis, postsynthetic metal exchange, and properties of a porphyrin-encapsulating metal-organic material. *Journal of the American Chemical Society*, **2012**, 134, 924-7 16.4 223
- 234 Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. *Nature Chemistry*, **2019**, 11, 622-628 17.6 211
- 233 Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. *Science*, **2017**, 356, 731-735 33.3 209
- 232 Low concentration CO<sub>2</sub> capture using physical adsorbents: Are metal-organic frameworks becoming the new benchmark materials?. *Chemical Engineering Journal*, **2016**, 296, 386-397 14.7 206
- 231 Molecular enhancement of heterogeneous CO reduction. *Nature Materials*, **2020**, 19, 266-276 27 195
- 230 Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. *Journal of the American Chemical Society*, **2018**, 140, 11378-11386 16.4 188
- 229 Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. *Angewandte Chemie - International Edition*, **2015**, 54, 14353-8 16.4 174
- 228 H<sub>2</sub>S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. *Angewandte Chemie - International Edition*, **2016**, 55, 15879-15883 16.4 172
- 227 Quest for zeolite-like metal-organic frameworks: on pyrimidinecarboxylate bis-chelating bridging ligands. *Journal of the American Chemical Society*, **2008**, 130, 3768-70 16.4 172

226	On the mechanism of hydrogen storage in a metal-organic framework material. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15202-10	16.4	170
225	Fluorinated MOF platform for selective removal and sensing of SO from flue gas and air. <i>Nature Communications</i> , <b>2019</b> , 10, 1328	17.4	164
224	Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH <sub>4</sub> Storage. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1568-74	16.4	164
223	4-Connected metal-organic assemblies mediated via heterochelation and bridging of single metal ions: Kagome lattice and the M6L12 octahedron. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7266-7	16.4	161
222	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. <i>CheM</i> , <b>2018</b> , 4, 94-105	16.2	160
221	Metal-Organic Framework-Based Separators for Enhancing LiB Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2362-2367	20.1	160
220	The unique rht-MOF platform, ideal for pinpointing the functionalization and CO <sub>2</sub> adsorption relationship. <i>Chemical Communications</i> , <b>2012</b> , 48, 1455-7	5.8	154
219	A Fine-Tuned Metal-Organic Framework for Autonomous Indoor Moisture Control. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10715-10722	16.4	150
218	Zeolite-like metal-organic frameworks (ZMOFs) based on the directed assembly of finite metal-organic cubes (MOCs). <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17753-5	16.4	148
217	MOFs for the Sensitive Detection of Ammonia: Deployment of fcu-MOF Thin Films as Effective Chemical Capacitive Sensors. <i>ACS Sensors</i> , <b>2017</b> , 2, 1294-1301	9.2	147
216	Template-directed synthesis of nets based upon octahemioctahedral cages that encapsulate catalytically active metalloporphyrins. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 928-33	16.4	147
215	Directed assembly of metal-organic cubes from deliberately pre-designed molecular building blocks. <i>Chemical Communications</i> , <b>2004</b> , 2806-7	5.8	143
214	The liquid phase epitaxy approach for the successful construction of ultra-thin and defect-free ZIF-8 membranes: pure and mixed gas transport study. <i>Chemical Communications</i> , <b>2014</b> , 50, 2089-92	5.8	141
213	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7245-7249	16.4	139
212	The next chapter in MOF pillaring strategies: trigonal heterofunctional ligands to access targeted high-connected three dimensional nets, isorecticular platforms. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17532-5	16.4	139
211	[Ag(SPhMe)(PPh)]: Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14727-14732	16.4	138
210	Insights on Adsorption Characterization of Metal-Organic Frameworks: A Benchmark Study on the Novel soc-MOF. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 129, 345-353	5.3	138
209	Quest for highly connected metal-organic framework platforms: rare-earth polynuclear clusters versatility meets net topology needs. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5421-30	16.4	135

208	Natural gas upgrading using a fluorinated MOF with tuned H <sub>2</sub> S and CO <sub>2</sub> adsorption selectivity. <i>Nature Energy</i> , <b>2018</b> , 3, 1059-1066	62.3	123
207	Highly monodisperse M(III)-based soc-MOFs (M = In and Ga) with cubic and truncated cubic morphologies. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13176-9	16.4	122
206	Exceptional stability and high hydrogen uptake in hydrogen-bonded metal-organic cubes possessing ACO and AST zeolite-like topologies. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10394-6	16.4	120
205	Advanced Fabrication Method for the Preparation of MOF Thin Films: Liquid-Phase Epitaxy Approach Meets Spin Coating Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20459-64	9.5	119
204	Quest for anionic MOF membranes: continuous sod-ZMOF membrane with CO <sub>2</sub> adsorption-driven selectivity. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1754-7	16.4	114
203	From metal-organic squares to porous zeolite-like supramolecular assemblies. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 18038-41	16.4	113
202	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H <sub>2</sub> S and CO from Natural Gas. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14811-14816	16.4	111
201	Network diversity through decoration of trigonal-prismatic nodes: two-step crystal engineering of cationic metal-organic materials. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11421-4	16.4	110
200	Tertiary building units: synthesis, structure, and porosity of a metal-organic dendrimer framework (MODF-1). <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11482-3	16.4	109
199	On demand: the singular rht net, an ideal blueprint for the construction of a metal-organic framework (MOF) platform. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10099-103	16.4	107
198	Porous organic polymers with anchored aldehydes: a new platform for post-synthetic amine functionalization en route for enhanced CO <sub>2</sub> adsorption properties. <i>Chemical Communications</i> , <b>2014</b> , 50, 1937-40	5.8	105
197	Metal-organic frameworks constructed from pentagonal antiprismatic and cuboctahedral secondary building units. <i>Chemical Communications</i> , <b>2001</b> , 2534-2535	5.8	105
196	Conductive Metal-Organic Frameworks Selectively Grown on Laser-Scribed Graphene for Electrochemical Microsupercapacitors. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900482	21.8	104
195	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected -MOFs. <i>Chemical Science</i> , <b>2015</b> , 6, 4095-4102	9.4	103
194	A facile solvent-free synthesis route for the assembly of a highly CO <sub>2</sub> selective and H <sub>2</sub> S tolerant NiSIFSIX metal-organic framework. <i>Chemical Communications</i> , <b>2015</b> , 51, 13595-8	5.8	102
193	Post-synthetic modification of porphyrin-encapsulating metal-organic materials by cooperative addition of inorganic salts to enhance CO <sub>2</sub> /CH <sub>4</sub> selectivity. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9330-4	16.4	102
192	Porous Germanates: Synthesis, Structure, and Inclusion Properties of Ge <sub>7</sub> O <sub>14</sub> .5F <sub>2</sub> [[(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ] <sub>3</sub> (H <sub>2</sub> O) <sub>0.86</sub> ]. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8567-8568	16.4	99
191	A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO <sub>2</sub> capture and hydrocarbon separation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6276-6281	13	97

190	Synthesis of organic photodimeric cage molecules based on cycloaddition via metal-ligand directed assembly. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5820-1	16.4	94
189	Host-Guest Chirality Interplay: A Mutually Induced Formation of a Chiral ZMOF and Its Double-Helix Polymer Guests. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 786-9	16.4	93
188	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , <b>2017</b> , 10, 3746-3749	8.3	93
187	Noninterpenetrating Indium Sulfide Supertetrahedral Cristobalite Framework. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6096-6097	16.4	93
186	Highly sensitive and selective SO <sub>2</sub> MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5550-5554	13	92
185	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. <i>Sensors</i> , <b>2015</b> , 15, 18153-66	3.8	92
184	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8858-8867	16.4	91
183	The quest for modular nanocages: tbo-MOF as an archetype for mutual substitution, functionalization, and expansion of quadrangular pillar building blocks. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14204-7	16.4	91
182	Stepwise transformation of the molecular building blocks in a porphyrin-encapsulating metal-organic material. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5982-5	16.4	88
181	The quest for highly sensitive QCM humidity sensors: The coating of CNT/MOF composite sensing films as case study. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 609-619	8.5	88
180	The asc trinodal platform: two-step assembly of triangular, tetrahedral, and trigonal-prismatic molecular building blocks. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2902-5	16.4	87
179	A family of porous lonsdaleite-e networks obtained through pillaring of decorated kagom lattice sheets. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14016-9	16.4	87
178	Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. <i>Chemical Communications</i> , <b>2012</b> , 48, 11434-6	5.8	87
177	CO <sub>2</sub> conversion: the potential of porous-organic polymers (POPs) for catalytic CO <sub>2</sub> →epoxide insertion. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7453-7460	13	87
176	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3265-3274	16.4	84
175	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807513	24	83
174	The liquid phase epitaxy method for the construction of oriented ZIF-8 thin films with controlled growth on functionalized surfaces. <i>Chemical Communications</i> , <b>2013</b> , 49, 10079-81	5.8	83
173	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9585-9592	16.4	81

172	Construction of Three Metal-Organic Frameworks Based on Multifunctional T-Shaped Tripodal Ligands, H3PyImDC. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 3489-3495	3.5	80
171	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12767-12770	16.4	80
170	Nanosheets of Nonlayered Aluminum Metal-Organic Frameworks through a Surfactant-Assisted Method. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707234	24	80
169	An Open-Framework Germanate with Polycubane-Like Topology. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 653-655	16.4	79
168	Solution processable metal-organic frameworks for mixed matrix membranes using porous liquids. <i>Nature Materials</i> , <b>2020</b> , 19, 1346-1353	27	78
167	Metal-Organic frameworks to satisfy gas upgrading demands: fine-tuning the soc-MOF platform for the operative removal of H <sub>2</sub> S. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3293-3303	13	76
166	Reticular Chemistry 3.2: Typical Minimal Edge-Transitive and Nets for the Design and Synthesis of Metal-Organic Frameworks. <i>Chemical Reviews</i> , <b>2020</b> , 120, 8039-8065	68.1	75
165	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2256-2264	20.1	74
164	Achieving Superprotonic Conduction with a 2D Fluorinated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13156-13160	16.4	74
163	Isorecticular rare earth fcu-MOFs for the selective removal of H <sub>2</sub> S from CO <sub>2</sub> containing gases. <i>Chemical Engineering Journal</i> , <b>2017</b> , 324, 392-396	14.7	73
162	Efficient transfer hydrogenation reaction Catalyzed by a dearomatized PN3P ruthenium pincer complex under base-free Conditions. <i>Journal of Organometallic Chemistry</i> , <b>2012</b> , 700, 202-206	2.3	73
161	Highly porous ionic rht metal-organic framework for H <sub>2</sub> and CO <sub>2</sub> storage and separation: a molecular simulation study. <i>Langmuir</i> , <b>2010</b> , 26, 11196-203	4	71
160	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702953	24	70
159	Assembly of Two Metal-Organic Frameworks with Intrinsic Chiral Topology from Achiral Materials. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 492-494	3.5	69
158	Assembly of Metal-Organic Frameworks (MOFs) Based on Indium-Trimer Building Blocks: A Porous MOF with soc Topology and High Hydrogen Storage. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 3342-3347	3.6	69
157	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. <i>CheM</i> , <b>2019</b> , 5, 950-963	16.2	68
156	Design and synthesis of metal-carboxylate frameworks with permanent microporosity. <i>Topics in Catalysis</i> , <b>1999</b> , 9, 105-111	2.3	68
155	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [PtAgCl(PPh)] Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1053-1056	16.4	67



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