Omar M Yaghi

List of Publications by Year in Descending Order

346 papers	162,561 citations	160 h-index	379 g-index
379 ext. papers	178,595 ext. citations	16.4 avg, IF	9.05 L-index

#	Paper	IF	Citations
346	Carbon Dioxide Capture Chemistry of Amino Acid Functionalized Metal-Organic Frameworks in Humid Flue Gas.. *Journal of the American Chemical Society*, **2022**,	16.4	15
345	Entanglement of Square Nets in Covalent Organic Frameworks.. *Journal of the American Chemical Society*, **2022**,	16.4	2
344	Single Crystals Heterogeneity Impacts the Intrinsic and Extrinsic Properties of Metal-Organic Frameworks. *Advanced Materials*, **2021**, e2104530	24	2
343	Evolution of water structures in metal-organic frameworks for improved atmospheric water harvesting. *Science*, **2021**, 374, 454-459	33.3	47
342	Docking of CuI and AgI in Metal□Organic Frameworks for Adsorption and Separation of Xenon. *Angewandte Chemie*, **2021**, 133, 3459-3463	3.6	5
341	Docking of Cu and Ag in Metal-Organic Frameworks for Adsorption and Separation of Xenon. *Angewandte Chemie - International Edition*, **2021**, 60, 3417-3421	16.4	26
340	'Eye' of the molecule-a viewpoint. *Faraday Discussions*, **2021**, 231, 145-149	3.6	1
339	Innenr□cktitelbild: Docking of CuI and AgI in Metal□Organic Frameworks for Adsorption and Separation of Xenon (Angew. Chem. 7/2021). *Angewandte Chemie*, **2021**, 133, 3867-3867	3.6	
338	From Molecules to Frameworks to Superframework Crystals. *Advanced Materials*, **2021**, 33, e2103808	24	1
337	Hydration for Clean Air Today.. *Molecular Frontiers Journal*, **2021**, 5, 1-4	0.9	2
336	MOF water harvesters. *Nature Nanotechnology*, **2020**, 15, 348-355	28.7	155
335	Pore Chemistry of Metal□Organic Frameworks. *Advanced Functional Materials*, **2020**, 30, 2000238	15.6	110
334	Individually Encapsulated Frame-in-Frame Structure **2020**, 2, 685-690		3
333	A Porous Covalent Organic Framework with Voided Square Grid Topology for Atmospheric Water Harvesting. *Journal of the American Chemical Society*, **2020**, 142, 2218-2221	16.4	78
332	Reticulating 1D Ribbons into 2D Covalent Organic Frameworks by Imine and Imide Linkages. *Journal of the American Chemical Society*, **2020**, 142, 2771-2776	16.4	50
331	Reticular Chemistry and Harvesting Water from Desert Air **2020**,		2
330	Amidation, Esterification, and Thioesterification of a Carboxyl-Functionalized Covalent Organic Framework. *Angewandte Chemie*, **2020**, 132, 2039-2043	3.6	5

329	Precise Control of Molecular Self-Diffusion in Isoreticular and Multivariate Metal-Organic Frameworks. *ChemPhysChem*, **2020**, 21, 32-35	3.2	16
328	Amidation, Esterification, and Thioesterification of a Carboxyl-Functionalized Covalent Organic Framework. *Angewandte Chemie - International Edition*, **2020**, 59, 2023-2027	16.4	34
327	Architectural Stabilization of a Gold(III) Catalyst in Metal-Organic Frameworks. *CheM*, **2020**, 6, 142-152	16.2	19
326	Digital Reticular Chemistry. *CheM*, **2020**, 6, 2219-2241	16.2	31
325	Design of higher valency in covalent organic frameworks. *Science*, **2020**, 370,	33.3	64
324	Metal-Organic Frameworks for Water Harvesting from Air, Anywhere, Anytime. *ACS Central Science*, **2020**, 6, 1348-1354	16.8	77
323	3D Covalent Organic Frameworks Selectively Crystallized through Conformational Design. *Journal of the American Chemical Society*, **2020**,	16.4	32
322	Sequencing of metals in multivariate metal-organic frameworks. *Science*, **2020**, 369, 674-680	33.3	76
321	Ester-Linked Crystalline Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 14450-14454	16.4	35
320	Anisotropic reticular chemistry. *Nature Reviews Materials*, **2020**, 5, 764-779	73.3	72
319	Rapid Cycling and Exceptional Yield in a Metal-Organic Framework Water Harvester. *ACS Central Science*, **2019**, 5, 1699-1706	16.8	150
318	Parallel Worlds Meet at Designed Interfaces with a Vast Number of Potential Frameworks. *Biochemistry*, **2019**, 58, 3823-3824	3.2	
317	**2019**,		239
316	Multistep Solid-State Organic Synthesis of Carbamate-Linked Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 11253-11258	16.4	51
315	Isotherms of individual pores by gas adsorption crystallography. *Nature Chemistry*, **2019**, 11, 562-570	17.6	64
314	Porous Crystalline Olefin-Linked Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 6848-6852	16.4	185
313	Reticular Chemistry: Molecular Precision in Infinite 2D and 3D. *Molecular Frontiers Journal*, **2019**, 03, 66-83	3.9	28
312	Carbon capture and conversion using metal-organic frameworks and MOF-based materials. *Chemical Society Reviews*, **2019**, 48, 2783-2828	58.5	910

311	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 5201-5210	16.4	219
310	Emergence of Metal-Organic Frameworks **2019**, 1-27		3
309	Functionalization of COFs **2019**, 245-266		
308	Nanoscopic and Macroscopic Structuring of Covalent Organic Frameworks **2019**, 267-283		
307	The Applications of Reticular Framework Materials **2019**, 285-293		1
306	The Basics of Gas Sorption and Separation in MOFs **2019**, 295-311		
305	CO2 Capture and Sequestration **2019**, 313-338		1
304	Hydrogen and Methane Storage in MOFs **2019**, 339-363		
303	Liquid- and Gas-Phase Separation in MOFs **2019**, 365-393		2
302	Water Sorption Applications of MOFs **2019**, 395-427		2
301	Metal-Organic Polyhedra and Covalent Organic Polyhedra **2019**, 453-462		1
300	Determination and Design of Porosity **2019**, 29-56		1
299	Zeolitic Imidazolate Frameworks **2019**, 463-479		1
298	Dynamic Frameworks **2019**, 481-496		
297	Building Units of MOFs **2019**, 57-81		1
296	Binary Metal-Organic Frameworks **2019**, 83-119		
295	Complexity and Heterogeneity in MOFs **2019**, 121-144		
294	Functionalization of MOFs **2019**, 145-176		

293	Historical Perspective on the Discovery of Covalent Organic Frameworks **2019**, 177-195		1
292	Linkages in Covalent Organic Frameworks **2019**, 197-223		
291	Reticular Design of Covalent Organic Frameworks **2019**, 225-243		1
290	Covalent Organic Frameworks: Organic Chemistry Extended into Two and Three Dimensions. *Trends in Chemistry*, **2019**, 1, 172-184	14.8	132
289	Reticular Synthesis of Multinary Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 11420-11424	16.4	54
288	Three-Dimensional Phthalocyanine Metal-Catecholates for High Electrochemical Carbon Dioxide Reduction. *Journal of the American Chemical Society*, **2019**, 141, 17081-17085	16.4	99
287	A Metal-Organic Framework of Organic Vertices and Polyoxometalate Linkers as a Solid-State Electrolyte. *Journal of the American Chemical Society*, **2019**, 141, 17522-17526	16.4	124
286	Coordinative Alignment in the Pores of MOFs for the Structural Determination of N-, S-, and P-Containing Organic Compounds Including Complex Chiral Molecules. *Journal of the American Chemical Society*, **2019**, 141, 18862-18869	16.4	28
285	Local Electronic Structure of Molecular Heterojunctions in a Single-Layer 2D Covalent Organic Framework. *Advanced Materials*, **2019**, 31, e1805941	24	35
284	Identification of the strong Brønsted acid site in a metal-organic framework solid acid catalyst. *Nature Chemistry*, **2019**, 11, 170-176	17.6	134
283	Building a Global Culture of Science-The Vietnam Experience. *Angewandte Chemie - International Edition*, **2019**, 58, 1552-1560	16.4	1
282	3D Covalent Organic Frameworks of Interlocking 1D Square Ribbons. *Journal of the American Chemical Society*, **2019**, 141, 677-683	16.4	54
281	Aufbau einer globalen Wissenschaftskultur □die Vietnam-Erfahrung. *Angewandte Chemie*, **2019**, 131, 1566-1575	3.6	0
280	The role of reticular chemistry in the design of CO reduction catalysts. *Nature Materials*, **2018**, 17, 301-307	27	405
279	Chemical diversity in a metal-organic framework revealed by fluorescence lifetime imaging. *Nature Communications*, **2018**, 9, 1647	17.4	80
278	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	16.4	300
277	The geometry of periodic knots, polycatenanes and weaving from a chemical perspective: a library for reticular chemistry. *Chemical Society Reviews*, **2018**, 47, 4642-4664	58.5	94
276	Adsorption-based atmospheric water harvesting device for arid climates. *Nature Communications*, **2018**, 9, 1191	17.4	227

275	Conversion of Imine to Oxazole and Thiazole Linkages in Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 9099-9103	16.4	143
274	Facilitating Laboratory Research Experience Using Reticular Chemistry. *Journal of Chemical Education*, **2018**, 95, 1512-1519	2.4	23
273	Practical water production from desert air. *Science Advances*, **2018**, 4, eaat3198	14.3	214
272	Urea-Linked Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 16438-16441	16.4	87
271	Bioinspired Metal-Organic Framework Catalysts for Selective Methane Oxidation to Methanol. *Journal of the American Chemical Society*, **2018**, 140, 18208-18216	16.4	176
270	Metal-Organic Frameworks for Water Harvesting from Air. *Advanced Materials*, **2018**, 30, e1704304	24	291
269	Crystalline Dioxin-Linked Covalent Organic Frameworks from Irreversible Reactions. *Journal of the American Chemical Society*, **2018**, 140, 12715-12719	16.4	171
268	Molecular Weaving of Covalent Organic Frameworks for Adaptive Guest Inclusion. *Journal of the American Chemical Society*, **2018**, 140, 16015-16019	16.4	56
267	Cytoprotective metal-organic frameworks for anaerobic bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10582-10587	11.5	100
266	Secondary building units as the turning point in the development of the reticular chemistry of MOFs. *Science Advances*, **2018**, 4, eaat9180	14.3	342
265	Linking Molybdenum-Sulfur Clusters for Electrocatalytic Hydrogen Evolution. *Journal of the American Chemical Society*, **2018**, 140, 13618-13622	16.4	57
264	Conceptual Advances from Werner Complexes to Metal-Organic Frameworks. *ACS Central Science*, **2018**, 4, 1457-1464	16.8	67
263	Metal coordination as a template strategy to make resilient woven materials. *Bulletin of Japan Society of Coordination Chemistry*, **2018**, 71, 12-17	0.3	2
262	Single-crystal x-ray diffraction structures of covalent organic frameworks. *Science*, **2018**, 361, 48-52	33.3	521
261	Impact of Disordered Guest-Framework Interactions on the Crystallography of Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 8958-8964	16.4	38
260	Tuning the Interplay between Selectivity and Permeability of ZIF-7 Mixed Matrix Membranes. *ACS Applied Materials & Interfaces*, **2017**, 9, 33401-33407	9.5	58
259	The atom, the molecule, and the covalent organic framework. *Science*, **2017**, 355,	33.3	1278
258	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. *Journal of the American Chemical Society*, **2017**, 139, 6448-6455	16.4	146

257	Water harvesting from air with metal-organic frameworks powered by natural sunlight. *Science*, **2017**, 356, 430-434	33.3	800
256	The folklore and reality of reticular chemistry. *Materials Chemistry Frontiers*, **2017**, 1, 1304-1309	7.8	42
255	Calcium l-Lactate Frameworks as Naturally Degradable Carriers for Pesticides. *Journal of the American Chemical Society*, **2017**, 139, 8118-8121	16.4	82
254	Multivariate metal-organic frameworks. *National Science Review*, **2017**, 4, 296-298	10.8	104
253	Molecular Retrofitting Adapts a Metal-Organic Framework to Extreme Pressure. *ACS Central Science*, **2017**, 3, 662-667	16.8	59
252	Sequence-Dependent Materials. *Accounts of Chemical Research*, **2017**, 50, 532-534	24.3	48
251	A Synthetic Route for Crystals of Woven Structures, Uniform Nanocrystals, and Thin Films of Imine Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2017**, 139, 13166-13172	16.4	131
250	Hydroisomerization of n-Hexane Using Acidified Metal-Organic Framework and Platinum Nanoparticles. *Journal of the American Chemical Society*, **2017**, 139, 12382-12385	16.4	53
249	MOFs modeling and theory: general discussion. *Faraday Discussions*, **2017**, 201, 233-245	3.6	3
248	Spiers Memorial Lecture: Progress and prospects of reticular chemistry. *Faraday Discussions*, **2017**, 201, 9-45	3.6	67
247	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. *Faraday Discussions*, **2017**, 201, 87-99	3.6	5
246	New directions in gas sorption and separation with MOFs: general discussion. *Faraday Discussions*, **2017**, 201, 175-194	3.6	6
245	Catalysis in MOFs: general discussion. *Faraday Discussions*, **2017**, 201, 369-394	3.6	12
244	The chemistry of metal organic frameworks for CO2 capture, regeneration and conversion. *Nature Reviews Materials*, **2017**, 2,	73.3	776
243	The Chemistry of CO Capture in an Amine-Functionalized Metal-Organic Framework under Dry and Humid Conditions. *Journal of the American Chemical Society*, **2017**, 139, 12125-12128	16.4	269
242	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". *Science*, **2017**, 358,	33.3	2
241	Response to Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". *Science*, **2017**, 358,	33.3	13
240	Crystal structures as periodic graphs: the topological genome and graph databases. *Structural Chemistry*, **2017**, 28, 39-44	1.8	15

239	Plasmon-Enhanced Photocatalytic CO(2) Conversion within Metal-Organic Frameworks under Visible Light. *Journal of the American Chemical Society*, **2017**, 139, 356-362	16.4	401
238	Covalent Organic Frameworks-Organic Chemistry Beyond the Molecule. *Molecules*, **2017**, 22,	4.8	21
237	Porosity in Metal Organic Compounds **2016**, 200-219		10
236	Nanoporous Transparent MOF Glasses with Accessible Internal Surface. *Journal of the American Chemical Society*, **2016**, 138, 10818-21	16.4	53
235	Coordinative alignment of molecules in chiral metal-organic frameworks. *Science*, **2016**, 353, 808-11	33.3	211
234	Structures of Metal-Organic Frameworks with Rod Secondary Building Units. *Chemical Reviews*, **2016**, 116, 12466-12535	68.1	570
233	High Methane Storage Working Capacity in Metal-Organic Frameworks with Acrylate Links. *Journal of the American Chemical Society*, **2016**, 138, 10244-51	16.4	201
232	Chemical Conversion of Linkages in Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2016**, 138, 15519-15522	16.4	236
231	Characterization of Adsorption Enthalpy of Novel Water-Stable Zeolites and Metal-Organic Frameworks. *Scientific Reports*, **2016**, 6, 19097	4.9	44
230	Copper Nanocrystals Encapsulated in Zr-based Metal-Organic Frameworks for Highly Selective CO Hydrogenation to Methanol. *Nano Letters*, **2016**, 16, 7645-7649	11.5	285
229	First woven covalent organic framework solved using electron crystallography **2016**, 637-638		1
228	Synthesis of a Water-soluble Metal-Organic Complex Array. *Journal of Visualized Experiments*, **2016**,	1.6	1
227	Seven Post-synthetic Covalent Reactions in Tandem Leading to Enzyme-like Complexity within Metal-Organic Framework Crystals. *Journal of the American Chemical Society*, **2016**, 138, 8352-5	16.4	146
226	Weaving of organic threads into a crystalline covalent organic framework. *Science*, **2016**, 351, 365-9	33.3	307
225	A Titanium-Organic Framework as an Exemplar of Combining the Chemistry of Metal- and Covalent-Organic Frameworks. *Journal of the American Chemical Society*, **2016**, 138, 4330-3	16.4	196
224	Covalent Chemistry beyond Molecules. *Journal of the American Chemical Society*, **2016**, 138, 3255-65	16.4	256
223	Cooperative effects at the interface of nanocrystalline metal organic frameworks. *Nano Research*, **2016**, 9, 47-58	10	53
222	A water-soluble metal-organic complex array as a multinuclear heterometallic peptide amphiphile that shows unconventional anion dependency in its self-assembly. *Chemical Communications*, **2016**, 52, 1579-81	5.8	8

221	Reticular Chemistry of Metal□Organic Frameworks Composed of Copper and Zinc Metal Oxide Secondary Building Units as Nodes **2016**, 41-72		4
220	The role of metal□organic frameworks in a carbon-neutral energy cycle. *Nature Energy*, **2016**, 1,	62.3	284
219	Two Principles of Reticular Chemistry Uncovered in a Metal-Organic Framework of Heterotritopic Linkers and Infinite Secondary Building Units. *Journal of the American Chemical Society*, **2016**, 138, 10826-9	16.4	63
218	Modular synthesis of metal-organic complex arrays containing precisely designed metal sequences. *Inorganic Chemistry*, **2015**, 54, 1197-9	5.1	15
217	Br□sted acidity in metal-organic frameworks. *Chemical Reviews*, **2015**, 115, 6966-97	68.1	390
216	Heterogeneity of functional groups in a metal-organic framework displays magic number ratios. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5591-6	11.5	32
215	The Development of Global Science. *ACS Central Science*, **2015**, 1, 18-23	16.8	5
214	L-Aspartate links for stable sodium metal-organic frameworks. *Chemical Communications*, **2015**, 51, 17463-6	6.38	22
213	Metal-organic frameworks for electrocatalytic reduction of carbon dioxide. *Journal of the American Chemical Society*, **2015**, 137, 14129-35	16.4	768
212	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO□reduction in water. *Science*, **2015**, 349, 1208-13	33.3	1540
211	Three-Dimensional Metal-Catecholate Frameworks and Their Ultrahigh Proton Conductivity. *Journal of the American Chemical Society*, **2015**, 137, 15394-7	16.4	216
210	Chemistry of Covalent Organic Frameworks. *Accounts of Chemical Research*, **2015**, 48, 3053-63	24.3	964
209	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. *Nature*, **2015**, 527, 503-7	50.4	176
208	Heterogenit□ innerhalb von Ordnung□n Metall-organischen Ger□sten. *Angewandte Chemie*, **2015**, 127, 3480-3494	3.6	67
207	Definitive Molecular Level Characterization of Defects in UiO-66 Crystals. *Angewandte Chemie*, **2015**, 127, 11314-11319	3.6	41
206	Definitive molecular level characterization of defects in UiO-66 crystals. *Angewandte Chemie - International Edition*, **2015**, 54, 11162-7	16.4	267
205	Chemical Environment Control and Enhanced Catalytic Performance of Platinum Nanoparticles Embedded in Nanocrystalline Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2015**, 137, 7810-6	16.4	241
204	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. *Journal of the American Chemical Society*, **2015**, 137, 2641-50	16.4	285

203	Mesoscopic constructs of ordered and oriented metal-organic frameworks on plasmonic silver nanocrystals. *Journal of the American Chemical Society*, **2015**, 137, 2199-202	16.4	120
202	"Heterogeneity within order" in metal-organic frameworks. *Angewandte Chemie - International Edition*, **2015**, 54, 3417-30	16.4	390
201	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. *Progress in Solid State Chemistry*, **2014**, 42, 1-21	8	42
200	High methane storage capacity in aluminum metal-organic frameworks. *Journal of the American Chemical Society*, **2014**, 136, 5271-4	16.4	349
199	Topological analysis of metal-organic frameworks with polytopic linkers and/or multiple building units and the minimal transitivity principle. *Chemical Reviews*, **2014**, 114, 1343-70	68.1	894
198	Designed amyloid fibers as materials for selective carbon dioxide capture. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 191-6	11.5	82
197	Tunable electrical conductivity in oriented thin films of tetrathiafulvalene-based covalent organic framework. *Chemical Science*, **2014**, 5, 4693-4700	9.4	235
196	Metal nanocrystals embedded in single nanocrystals of MOFs give unusual selectivity as heterogeneous catalysts. *Nano Letters*, **2014**, 14, 5979-83	11.5	215
195	Superacidity in sulfated metal-organic framework-808. *Journal of the American Chemical Society*, **2014**, 136, 12844-7	16.4	350
194	Synthesis and hydrogen adsorption properties of internally polarized 2,6-azulenedicarboxylate based metal□rganic frameworks. *Journal of Materials Chemistry A*, **2014**, 2, 18823-18830	13	22
193	Selective capture of carbon dioxide under humid conditions by hydrophobic chabazite-type zeolitic imidazolate frameworks. *Angewandte Chemie - International Edition*, **2014**, 53, 10645-8	16.4	196
192	Supercapacitors of nanocrystalline metal-organic frameworks. *ACS Nano*, **2014**, 8, 7451-7	16.7	540
191	Synthesis and characterization of metal-organic framework-74 containing 2, 4, 6, 8, and 10 different metals. *Inorganic Chemistry*, **2014**, 53, 5881-3	5.1	303
190	Metal-organic frameworks with precisely designed interior for carbon dioxide capture in the presence of water. *Journal of the American Chemical Society*, **2014**, 136, 8863-6	16.4	317
189	Structure-based design of functional amyloid materials. *Journal of the American Chemical Society*, **2014**, 136, 18044-51	16.4	82
188	Selective Capture of Carbon Dioxide under Humid Conditions by Hydrophobic Chabazite-Type Zeolitic Imidazolate Frameworks. *Angewandte Chemie*, **2014**, 126, 10821-10824	3.6	40
187	Synthesis and characterization of the platinum-substituted Keggin anion □H2SiPtW11O40(4-). *Inorganic Chemistry*, **2014**, 53, 13239-46	5.1	15
186	R□ktitelbild: Selective Capture of Carbon Dioxide under Humid Conditions by Hydrophobic Chabazite-Type Zeolitic Imidazolate Frameworks (Angew. Chem. 40/2014). *Angewandte Chemie*, **2014**, 126, 11004-11004	3.6	

185	Water adsorption in porous metal-organic frameworks and related materials. *Journal of the American Chemical Society*, **2014**, 136, 4369-81	16.4	1433
184	A two-dimensional zeolitic imidazolate framework with a cushion-shaped cavity for CO2 adsorption. *Chemical Communications*, **2013**, 49, 9500-2	5.8	356
183	Mapping of functional groups in metal-organic frameworks. *Science*, **2013**, 341, 882-5	33.3	349
182	Thermal maps of gases in heterogeneous reactions. *Nature*, **2013**, 502, 537-40	50.4	43
181	Dielectrophoresis-assembled zeolitic imidazolate framework nanoparticle-coupled resonators for highly sensitive and selective gas detection. *Nano Letters*, **2013**, 13, 5271-6	11.5	59
180	The chemistry and applications of metal-organic frameworks. *Science*, **2013**, 341, 1230444	33.3	9059
179	Crystalline fibers of metal-peptide double ladders. *Inorganic Chemistry*, **2013**, 52, 13818-20	5.1	8
178	Single-crystal structure of a covalent organic framework. *Journal of the American Chemical Society*, **2013**, 135, 16336-9	16.4	277
177	A Combined Experimental□Computational Investigation of Methane Adsorption and Selectivity in a Series of Isoreticular Zeolitic Imidazolate Frameworks. *Journal of Physical Chemistry C*, **2013**, 117, 10326-10335	3.8	72
176	Photophysical pore control in an azobenzene-containing metal□organic framework. *Chemical Science*, **2013**, 4, 2858	9.4	208
175	Zeolitic imidazolate framework-coupled resonators for enhanced gas detection. *Journal of Micromechanics and Microengineering*, **2013**, 23, 125027	2	12
174	Metal-organic frameworks incorporating copper-complexed rotaxanes. *Angewandte Chemie - International Edition*, **2012**, 51, 2160-3	16.4	92
173	NMR and X-ray Study Revealing the Rigidity of Zeolitic Imidazolate Frameworks. *Journal of Physical Chemistry C*, **2012**, 116, 13307-13312	3.8	97
172	Synthesis, structure, and metalation of two new highly porous zirconium metal-organic frameworks. *Inorganic Chemistry*, **2012**, 51, 6443-5	5.1	629
171	A Covalent Organic Framework that Exceeds the DOE 2015 Volumetric Target for H2 Uptake at 298 K. *Journal of Physical Chemistry Letters*, **2012**, 3, 2671-5	6.4	85
170	A Combined Experimental-Computational Study on the Effect of Topology on Carbon Dioxide Adsorption in Zeolitic Imidazolate Frameworks. *Journal of Physical Chemistry C*, **2012**, 116, 24084-24090	3.8	90
169	New Porous Crystals of Extended Metal-Catecholates. *Chemistry of Materials*, **2012**, 24, 3511-3513	9.6	423
168	Deconstructing the crystal structures of metal-organic frameworks and related materials into their underlying nets. *Chemical Reviews*, **2012**, 112, 675-702	68.1	1794

167	Large-pore apertures in a series of metal-organic frameworks. *Science*, **2012**, 336, 1018-23	33.3	1425
166	Metal Organic Frameworks Incorporating Copper-Complexed Rotaxanes. *Angewandte Chemie*, **2012**, 124, 2202-2205	3.6	21
165	Reversible Interpenetration in a Metal Organic Framework Triggered by Ligand Removal and Addition. *Angewandte Chemie*, **2012**, 124, 8921-8925	3.6	25
164	Reversible interpenetration in a metal-organic framework triggered by ligand removal and addition. *Angewandte Chemie - International Edition*, **2012**, 51, 8791-5	16.4	113
163	Porous, conductive metal-triazolates and their structural elucidation by the charge-flipping method. *Chemistry - A European Journal*, **2012**, 18, 10595-601	4.8	172
162	Hydrogen Storage in New Metal Organic Frameworks. *Journal of Physical Chemistry C*, **2012**, 116, 13143-13151	4.8	154
161	Isomers of metal-organic complex arrays. *Inorganic Chemistry*, **2012**, 51, 6437-9	5.1	21
160	Site-Specific CO2 Adsorption and Zero Thermal Expansion in an Anisotropic Pore Network. *Journal of Physical Chemistry C*, **2011**, 115, 24915-24919	4.8	124
159	Incorporation of active metal sites in MOFs via in situ generated ligand deficient metal-linker complexes. *Chemical Communications*, **2011**, 47, 11882-4	5.8	32
158	Crystalline covalent organic frameworks with hydrazone linkages. *Journal of the American Chemical Society*, **2011**, 133, 11478-81	16.4	561
157	Isoreticular expansion of metal-organic frameworks with triangular and square building units and the lowest calculated density for porous crystals. *Inorganic Chemistry*, **2011**, 50, 9147-52	5.1	263
156	Heterogeneity within order in crystals of a porous metal-organic framework. *Journal of the American Chemical Society*, **2011**, 133, 11920-3	16.4	199
155	Synthesis of metal organic complex arrays. *Journal of the American Chemical Society*, **2011**, 133, 759-61	16.4	52
154	Postsynthetic modification of a metal-organic framework for stabilization of a hemiaminal and ammonia uptake. *Inorganic Chemistry*, **2011**, 50, 6853-5	5.1	165
153	A multiunit catalyst with synergistic stability and reactivity: a polyoxometalate-metal organic framework for aerobic decontamination. *Journal of the American Chemical Society*, **2011**, 133, 16839-46	16.4	437
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