Banglin Chen

List of Publications by Citations

394 papers	60,030 citations	113 h-index	240 g-index
425 ext. papers	68,228 ext. citations	11.1 avg, IF	8.14 L-index

#	Paper	IF	Citations
394	Luminescent functional metal-organic frameworks. *Chemical Reviews*, **2012**, 112, 1126-62	68.1	4620
393	Modular chemistry: secondary building units as a basis for the design of highly porous and robust metal-organic carboxylate frameworks. *Accounts of Chemical Research*, **2001**, 34, 319-30	24.3	4600
392	Rod packings and metal-organic frameworks constructed from rod-shaped secondary building units. *Journal of the American Chemical Society*, **2005**, 127, 1504-18	16.4	1963
391	Metal-organic frameworks with functional pores for recognition of small molecules. *Accounts of Chemical Research*, **2010**, 43, 1115-24	24.3	1797
390	Methane storage in metal-organic frameworks. *Chemical Society Reviews*, **2014**, 43, 5657-78	58.5	1246
389	Metal-Organic Frameworks as Platforms for Functional Materials. *Accounts of Chemical Research*, **2016**, 49, 483-93	24.3	1178
388	Interwoven metal-organic framework on a periodic minimal surface with extra-large pores. *Science*, **2001**, 291, 1021-3	33.3	1089
387	A microporous metal-organic framework for gas-chromatographic separation of alkanes. *Angewandte Chemie - International Edition*, **2006**, 45, 1390-3	16.4	1060
386	A luminescent metal-organic framework with Lewis basic pyridyl sites for the sensing of metal ions. *Angewandte Chemie - International Edition*, **2009**, 48, 500-3	16.4	980
385	High H2 adsorption in a microporous metal-organic framework with open metal sites. *Angewandte Chemie - International Edition*, **2005**, 44, 4745-9	16.4	959
384	Emerging Multifunctional Metal-Organic Framework Materials. *Advanced Materials*, **2016**, 28, 8819-8860	24	955
383	A luminescent microporous metal-organic framework for the recognition and sensing of anions. *Journal of the American Chemical Society*, **2008**, 130, 6718-9	16.4	918
382	A luminescent mixed-lanthanide metal-organic framework thermometer. *Journal of the American Chemical Society*, **2012**, 134, 3979-82	16.4	896
381	Luminescent Open Metal Sites within a Metal□Organic Framework for Sensing Small Molecules. *Advanced Materials*, **2007**, 19, 1693-1696	24	846
380	Lanthanide metal-organic frameworks for luminescent sensing and light-emitting applications. *Coordination Chemistry Reviews*, **2014**, 273-274, 76-86	23.2	800
379	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. *Science*, **2016**, 353, 141-4	33.3	783
378	Assembly of metal-organic frameworks from large organic and inorganic secondary building units: new examples and simplifying principles for complex structures. *Journal of the American Chemical Society*, **2001**, 123, 8239-47	16.4	734

377	Perspective of microporous metal□organic frameworks for CO2 capture and separation. *Energy and Environmental Science*, **2014**, 7, 2868	35.4	616
376	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. *Nature Communications*, **2012**, 3, 954	17.4	615
375	Ordered macro-microporous metal-organic framework single crystals. *Science*, **2018**, 359, 206-210	33.3	570
374	A highly sensitive mixed lanthanide metal-organic framework self-calibrated luminescent thermometer. *Journal of the American Chemical Society*, **2013**, 135, 15559-64	16.4	536
373	Metal□organic frameworks with potential for energy-efficient adsorptive separation of light hydrocarbons. *Energy and Environmental Science*, **2012**, 5, 9107	35.4	517
372	Dual-emitting MOF?dye composite for ratiometric temperature sensing. *Advanced Materials*, **2015**, 27, 1420-5	24	501
371	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. *Science*, **2018**, 362, 443-446	33.3	478
370	Rationally designed micropores within a metal-organic framework for selective sorption of gas molecules. *Inorganic Chemistry*, **2007**, 46, 1233-6	5.1	458
369	Rationally tuned micropores within enantiopure metal-organic frameworks for highly selective separation of acetylene and ethylene. *Nature Communications*, **2011**, 2, 204	17.4	438
368	Exceptionally high acetylene uptake in a microporous metal-organic framework with open metal sites. *Journal of the American Chemical Society*, **2009**, 131, 12415-9	16.4	432
367	Multifunctional metal-organic frameworks constructed from meta-benzenedicarboxylate units. *Chemical Society Reviews*, **2014**, 43, 5618-56	58.5	431
366	Potential of microporous metal□organic frameworks for separation of hydrocarbon mixtures. *Energy and Environmental Science*, **2016**, 9, 3612-3641	35.4	428
365	A microporous hydrogen-bonded organic framework for highly selective C2H2/C2H4 separation at ambient temperature. *Journal of the American Chemical Society*, **2011**, 133, 14570-3	16.4	409
364	Surface interactions and quantum kinetic molecular sieving for H2 and D2 adsorption on a mixed metal-organic framework material. *Journal of the American Chemical Society*, **2008**, 130, 6411-23	16.4	408
363	Porous Metal-Organic Frameworks for Gas Storage and Separation: What, How, and Why?. *Journal of Physical Chemistry Letters*, **2014**, 5, 3468-79	6.4	403
362	A luminescent nanoscale metal-organic framework for sensing of nitroaromatic explosives. *Chemical Communications*, **2011**, 47, 3153-5	5.8	401
361	A Microporous Metal□Organic Framework for Separation of CO2/N2and CO2/CH4by Fixed-Bed Adsorption. *Journal of Physical Chemistry C*, **2008**, 112, 1575-1581	3.8	398
360	Cu2(ATC)□6H2O: Design of Open Metal Sites in Porous Metal□Organic Crystals (ATC: 1,3,5,7-Adamantane Tetracarboxylate). *Journal of the American Chemical Society*, **2000**, 122, 11559-11560	16.4	391

359	A flexible metal□organic framework with a high density of sulfonic acid sites for proton conduction. *Nature Energy*, **2017**, 2, 877-883	62.3	377
358	Exploration of porous metal□organic frameworks for gas separation and purification. *Coordination Chemistry Reviews*, **2019**, 378, 87-103	23.2	368
357	Multifunctional porous hydrogen-bonded organic framework materials. *Chemical Society Reviews*, **2019**, 48, 1362-1389	58.5	358
356	Functional mixed metal-organic frameworks with metalloligands. *Angewandte Chemie - International Edition*, **2011**, 50, 10510-20	16.4	351
355	A microporous luminescent metal-organic framework for highly selective and sensitive sensing of Cu(2+) in aqueous solution. *Chemical Communications*, **2010**, 46, 5503-5	5.8	351
354	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. *Journal of the American Chemical Society*, **2016**, 138, 5678-84	16.4	351
353	Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing. *Nature Communications*, **2013**, 4, 2719	17.4	327
352	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. *Nature Communications*, **2015**, 6, 7328	17.4	326
351	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. *Nature Materials*, **2018**, 17, 1128-1133	27	326
350	A metal-organic framework with optimized open metal sites and pore spaces for high methane storage at room temperature. *Angewandte Chemie - International Edition*, **2011**, 50, 3178-81	16.4	321
349	A robust near infrared luminescent ytterbium metal-organic framework for sensing of small molecules. *Chemical Communications*, **2011**, 47, 5551-3	5.8	321
348	Open metal sites within isostructural metal-organic frameworks for differential recognition of acetylene and extraordinarily high acetylene storage capacity at room temperature. *Angewandte Chemie - International Edition*, **2010**, 49, 4615-8	16.4	304
347	Interplay of metalloligand and organic ligand to tune micropores within isostructural mixed-metal organic frameworks (MQMOFs) for their highly selective separation of chiral and achiral small molecules. *Journal of the American Chemical Society*, **2012**, 134, 8703-10	16.4	296
346	A Zn4O-containing doubly interpenetrated porous metal-organic framework for photocatalytic decomposition of methyl orange. *Chemical Communications*, **2011**, 47, 11715-7	5.8	289
345	Metal-organic frameworks for luminescence thermometry. *Chemical Communications*, **2015**, 51, 7420-31	5.8	288
344	A porous metal-organic framework with dynamic pyrimidine groups exhibiting record high methane storage working capacity. *Journal of the American Chemical Society*, **2014**, 136, 6207-10	16.4	278
343	Microporous metal-organic frameworks for storage and separation of small hydrocarbons. *Chemical Communications*, **2012**, 48, 11813-31	5.8	278
342	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. *Journal of the American Chemical Society*, **2017**, 139, 8022-8028	16.4	263

341	Second-order nonlinear optical activity induced by ordered dipolar chromophores confined in the pores of an anionic metal-organic framework. *Angewandte Chemie - International Edition*, **2012**, 51, 10542-5	16.4	255
340	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. *Journal of the American Chemical Society*, **2015**, 137, 9963-70	16.4	254
339	Porous metalloporphyrinic frameworks constructed from metal 5,10,15,20-tetrakis(3,5-biscarboxylphenyl)porphyrin for highly efficient and selective catalytic oxidation of alkylbenzenes. *Journal of the American Chemical Society*, **2012**, 134, 10638-45	16.4	244
338	Porous metal-organic frameworks for gas storage and separation: Status and challenges. *EnergyChem*, **2019**, 1, 100006	36.9	235
337	Microporous Metal-Organic Framework Materials for Gas Separation. *CheM*, **2020**, 6, 337-363	16.2	234
336	A homochiral microporous hydrogen-bonded organic framework for highly enantioselective separation of secondary alcohols. *Journal of the American Chemical Society*, **2014**, 136, 547-9	16.4	233
335	A rod packing microporous metal-organic framework with open metal sites for selective guest sorption and sensing of nitrobenzene. *Chemical Communications*, **2010**, 46, 7205-7	5.8	226
334	Enhanced near-infrared-luminescence in an erbium tetrafluoroterephthalate framework. *Inorganic Chemistry*, **2006**, 45, 8882-6	5.1	226
333	A triply interpenetrated microporous metal-organic framework for selective sorption of gas molecules. *Inorganic Chemistry*, **2007**, 46, 8490-2	5.1	221
332	Straightforward Loading of Imidazole Molecules into Metal-Organic Framework for High Proton Conduction. *Journal of the American Chemical Society*, **2017**, 139, 15604-15607	16.4	219
331	A new MOF-505 analog exhibiting high acetylene storage. *Chemical Communications*, **2009**, 7551-3	5.8	217
330	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. *CheM*, **2016**, 1, 557-580	16.2	214
329	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. *Advanced Materials*, **2017**, 29, 1704210	24	213
328	High H2 Adsorption in a Microporous Metal□Organic Framework with Open Metal Sites. *Angewandte Chemie*, **2005**, 117, 4823-4827	3.6	208
327	A Microporous Metal□Organic Framework for Gas-Chromatographic Separation of Alkanes. *Angewandte Chemie*, **2006**, 118, 1418-1421	3.6	202
326	A porous Zr-cluster-based cationic metal-organic framework for highly efficient Cr2O7(2-) removal from water. *Chemical Communications*, **2015**, 51, 14732-4	5.8	196
325	Hydrogen adsorption in an interpenetrated dynamic metal-organic framework. *Inorganic Chemistry*, **2006**, 45, 5718-20	5.1	191
324	Pore Space Partition within a Metal-Organic Framework for Highly Efficient CH/CO Separation. *Journal of the American Chemical Society*, **2019**, 141, 4130-4136	16.4	190

323	Color tunable and white light emitting Tb3+ and Eu3+ doped lanthanide metal□organic framework materials. *Journal of Materials Chemistry*, **2012**, 22, 3210		190
322	A microporous metal-organic framework for highly selective separation of acetylene, ethylene, and ethane from methane at room temperature. *Chemistry - A European Journal*, **2012**, 18, 613-9	4.8	188
321	A robust doubly interpenetrated metal-organic framework constructed from a novel aromatic tricarboxylate for highly selective separation of small hydrocarbons. *Chemical Communications*, **2012**, 48, 6493-5	5.8	187
320	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 12940-12946	16.4	186
319	Polystyrene Sulfonate Threaded through a Metal-Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. *Angewandte Chemie - International Edition*, **2016**, 55, 15120-15124	16.4	178
318	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. *Journal of the American Chemical Society*, **2017**, 139, 7733-7736	16.4	177
317	A series of metal□organic frameworks with high methane uptake and an empirical equation for predicting methane storage capacity. *Energy and Environmental Science*, **2013**, 6, 2735	35.4	177
316	Porous metal□organic frameworks for fuel storage. *Coordination Chemistry Reviews*, **2018**, 373, 167-198	23.2	169
315	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C H /CO Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 4396-4400	16.4	169
314	Kinetic separation of hexane isomers by fixed-bed adsorption with a microporous metal-organic framework. *Journal of Physical Chemistry B*, **2007**, 111, 6101-3	3.4	162
313	Porous Cu-Cd mixed-metal-organic frameworks constructed from Cu(Pyac)2 [Bis[3-(4-pyridyl)pentane-2,4-dionato]copper(II)]. *Inorganic Chemistry*, **2004**, 43, 8209-11	5.1	162
312	Two-photon responsive metal-organic framework. *Journal of the American Chemical Society*, **2015**, 137, 4026-9	16.4	159
311	Microporous metal-organic frameworks for gas separation. *Chemistry - an Asian Journal*, **2014**, 9, 1474-98	4.5	157
310	Turn-on and Ratiometric Luminescent Sensing of Hydrogen Sulfide Based on Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2016**, 8, 32259-32265	9.5	156
309	A Luminescent Metal□Organic Framework with Lewis Basic Pyridyl Sites for the Sensing of Metal Ions. *Angewandte Chemie*, **2009**, 121, 508-511	3.6	155
308	Tunable titanium metal□organic frameworks with infinite 1D Ti□O rods for efficient visible-light-driven photocatalytic H2 evolution. *Journal of Materials Chemistry A*, **2019**, 7, 11928-11933	13	153
307	Transformation of a metal-organic framework from the NbO to PtS net. *Inorganic Chemistry*, **2005**, 44, 181-3	5.1	153
306	Multifunctional lanthanide coordination polymers. *Progress in Polymer Science*, **2015**, 48, 40-84	29.6	151

305	Mixed-Metal-Organic Framework with Effective Lewis Acidic Sites for Sulfur Confinement in High-Performance Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 20999-1004	9.5	148
304	Energy-efficient separation alternatives: metal-organic frameworks and membranes for hydrocarbon separation. *Chemical Society Reviews*, **2020**, 49, 5359-5406	58.5	148
303	Solvent-dependent 4(4) square grid and 6(4).8(2) NbO frameworks formed by Cu(Pyac)2 (bis[3-(4-pyridyl)pentane-2,4-dionato]copper(II)). *Chemical Communications*, **2003**, 2166-7	5.8	148
302	Microporous metal□rganic frameworks for acetylene storage and separation. *CrystEngComm*, **2011**, 13, 5983	3.3	146
301	A microporous metal-organic framework with both open metal and Lewis basic pyridyl sites for high C2H2 and CH4 storage at room temperature. *Chemical Communications*, **2013**, 49, 6719-21	5.8	142
300	Robust metal-organic framework enforced by triple-framework interpenetration exhibiting high H2 storage density. *Inorganic Chemistry*, **2008**, 47, 6825-8	5.1	138
299	A rod-packing microporous hydrogen-bonded organic framework for highly selective separation of C2H2/CO2 at room temperature. *Angewandte Chemie - International Edition*, **2015**, 54, 574-7	16.4	137
298	Immobilization of Ag(i) into a metal-organic framework with -SO3H sites for highly selective olefin-paraffin separation at room temperature. *Chemical Communications*, **2015**, 51, 2859-62	5.8	136
297	A luminescent nanoscale metal-organic framework with controllable morphologies for spore detection. *Chemical Communications*, **2012**, 48, 7377-9	5.8	133
296	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. *Journal of the American Chemical Society*, **2020**, 142, 14399-14416	16.4	132
295	A porous metal-organic framework with -COOH groups for highly efficient pollutant removal. *Chemical Communications*, **2014**, 50, 14455-8	5.8	131
294	A microporous metal□rganic framework with both open metal and Lewis basic pyridyl sites for highly selective C2H2/CH4 and C2H2/CO2 gas separation at room temperature. *Journal of Materials Chemistry A*, **2013**, 1, 77-81	13	131
293	Polarized three-photon-pumped laser in a single MOF microcrystal. *Nature Communications*, **2016**, 7, 11087	17.4	129
292	Porous anatase TiO2 constructed from a metal□rganic framework for advanced lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2014**, 2, 12571	13	128
291	Ultrahigh and Selective SO Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. *Advanced Materials*, **2017**, 29, 1606929	24	127
290	High separation capacity and selectivity of C2 hydrocarbons over methane within a microporous metal-organic framework at room temperature. *Chemistry - A European Journal*, **2012**, 18, 1901-4	4.8	127
289	A new approach to construct a doubly interpenetrated microporous metal-organic framework of primitive cubic net for highly selective sorption of small hydrocarbon molecules. *Chemistry - A European Journal*, **2011**, 17, 7817-22	4.8	127
288	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 16020-16025	16.4	121

287	A microporous lanthanide-tricarboxylate framework with the potential for purification of natural gas. *Chemical Communications*, **2012**, 48, 10856-8	5.8	120
286	Metal-Organic Frameworks as a Versatile Platform for Proton Conductors. *Advanced Materials*, **2020**, 32, e1907090	24	118
285	Selective gas sorption within a dynamic metal-organic framework. *Inorganic Chemistry*, **2007**, 46, 8705-9	5.1	118
284	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. *Journal of the American Chemical Society*, **2018**, 140, 4596-4603	16.4	115
283	Highly selective sieving of small gas molecules by using an ultra-microporous metal–organic framework membrane. *Energy and Environmental Science*, **2014**, 7, 4053-4060	35.4	115
282	A photoluminescent microporous metal organic anionic framework for nitroaromatic explosive sensing. *Journal of Materials Chemistry A*, **2013**, 1, 4525	13	113
281	Three-dimensional pillar-layered copper(II) metal-organic framework with immobilized functional OH groups on pore surfaces for highly selective CO2/CH4 and C2H2/CH4 gas sorption at room temperature. *Inorganic Chemistry*, **2011**, 50, 3442-6	5.1	111
280	Finely tuning MOFs towards high performance in C2H2 storage: synthesis and properties of a new MOF-505 analogue with an inserted amide functional group. *Chemical Communications*, **2016**, 52, 7241-4	5.8	110
279	Porous metal–organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. *Energy and Environmental Science*, **2015**, 8, 2504-2511	35.4	107
278	A microporous six-fold interpenetrated hydrogen-bonded organic framework for highly selective separation of C2H4/C2H6. *Chemical Communications*, **2014**, 50, 13081-4	5.8	105
277	A Metal–Organic Framework with Open Metal Sites for Enhanced Confinement of Sulfur and Lithium–Sulfur Battery of Long Cycling Life. *Crystal Growth and Design*, **2013**, 13, 5116-5120	3.5	102
276	A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. *Advanced Materials*, **2018**, 30, 1705155	24	101
275	A Microporous Metal-Organic Framework with Lewis Basic Nitrogen Sites for High C2H2 Storage and Significantly Enhanced C2H2/CO2 Separation at Ambient Conditions. *Inorganic Chemistry*, **2016**, 55, 7214-8	5.1	100
274	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. *Nature Communications*, **2019**, 10, 3861	17.4	98
273	Loading Photochromic Molecules into a Luminescent Metal-Organic Framework for Information Anticounterfeiting. *Angewandte Chemie - International Edition*, **2019**, 58, 18025-18031	16.4	98
272	A robust highly interpenetrated metal-organic framework constructed from pentanuclear clusters for selective sorption of gas molecules. *Inorganic Chemistry*, **2010**, 49, 8444-8	5.1	93
271	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. *Advanced Materials*, **2018**, 30, 1705374	24	92
270	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. *Angewandte Chemie - International Edition*, **2017**, 56, 11426-11430	16.4	92

269	A Rod-Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C2H2/CO2 at Room Temperature. *Angewandte Chemie*, **2015**, 127, 584-587	3.6	92
268	A Microporous Metal□Organic Framework with Immobilized □OH Functional Groups within the Pore Surfaces for Selective Gas Sorption. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3745-3749	2.3	92
267	Reversible Two-Dimensional□Three Dimensional Framework Transformation within a Prototype Metal□Organic Framework. *Crystal Growth and Design*, **2009**, 9, 5293-5296	3.5	91
266	A ketone functionalized luminescent terbium metal-organic framework for sensing of small molecules. *Chemical Communications*, **2015**, 51, 376-9	5.8	90
265	A nanoporous Ag-Fe mixed-metal-organic framework exhibiting single-crystal-to-single-crystal transformations upon guest exchange. *Inorganic Chemistry*, **2008**, 47, 4433-5	5.1	89
264	Highly efficient C-H oxidative activation by a porous Mn(III) -porphyrin metal-organic framework under mild conditions. *Chemistry - A European Journal*, **2013**, 19, 14316-21	4.8	88
263	Our journey of developing multifunctional metal-organic frameworks. *Coordination Chemistry Reviews*, **2019**, 384, 21-36	23.2	86
262	Enhanced CO2 sorption and selectivity by functionalization of a NbO-type metal-organic framework with polarized benzothiadiazole moieties. *Chemical Communications*, **2014**, 50, 12105-8	5.8	86
261	Metal-organic framework with rationally tuned micropores for selective adsorption of water over methanol. *Inorganic Chemistry*, **2008**, 47, 5543-5	5.1	86
260	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 633-640	16.4	86
259	Extraordinary Separation of Acetylene-Containing Mixtures with Microporous Metal-Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. *Chemistry - A European Journal*, **2016**, 22, 5676-83	4.8	85
258	A luminescent cerium metal-organic framework for the turn-on sensing of ascorbic acid. *Chemical Communications*, **2017**, 53, 11221-11224	5.8	84
257	A robust Th-azole framework for highly efficient purification of CH from a CH/CH/CH mixture. *Nature Communications*, **2020**, 11, 3163	17.4	83
256	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oil-Water Separation. *ACS Applied Materials & Interfaces*, **2018**, 10, 17301-17308	9.5	83
255	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. *Angewandte Chemie - International Edition*, **2018**, 57, 15183-15188	16.4	83
254	A metal□organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO2 capture. *Journal of Materials Chemistry A*, **2019**, 7, 3128-3134	13	82
253	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. *Journal of the American Chemical Society*, **2019**, 141, 8737-8740	16.4	82
252	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. *Advanced Materials*, **2018**, 30, e1704792	24	81

251	Single- and Multicomponent Vapor-Phase Adsorption of Xylene Isomers and Ethylbenzene in a Microporous Metal□Organic Framework. *Journal of Physical Chemistry C*, **2009**, 113, 13173-13179	3.8	81
250	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. *Crystal Growth and Design*, **2015**, 15, 2000-2004	3.5	80
249	Highly dispersed □NiS nanoparticles in porous carbon matrices by a template metal□organic framework method for lithium-ion cathode. *Journal of Materials Chemistry A*, **2014**, 2, 7912	13	80
248	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. *Advanced Materials*, **2019**, 31, e1806897	24	79
247	A Doubly Interpenetrated Metal□Organic Framework with Open Metal Sites and Suitable Pore Sizes for Highly Selective Separation of Small Hydrocarbons at Room Temperature. *Crystal Growth and Design*, **2013**, 13, 2094-2097	3.5	77
246	Microporous Diaminotriazine-Decorated Porphyrin-Based Hydrogen-Bonded Organic Framework: Permanent Porosity and Proton Conduction. *Crystal Growth and Design*, **2016**, 16, 5831-5835	3.5	77
245	A cationic microporous metal□organic framework for highly selective separation of small hydrocarbons at room temperature. *Journal of Materials Chemistry A*, **2013**, 1, 9916	13	75
244	Molecular sensing with lanthanide luminescence in a 3D porous metal-organic framework. *Journal of Alloys and Compounds*, **2009**, 484, 601-604	5.7	75
243	A new metal□organic framework with potential for adsorptive separation of methane from carbon dioxide, acetylene, ethylene, and ethane established by simulated breakthrough experiments. *Journal of Materials Chemistry A*, **2014**, 2, 2628	13	74
242	Triple framework interpenetration and immobilization of open metal sites within a microporous mixed metal-organic framework for highly selective gas adsorption. *Inorganic Chemistry*, **2012**, 51, 4947-53	5.1	74
241	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. *Journal of the American Chemical Society*, **2020**, 142, 12478-12485	16.4	73
240	A new tetrazolate zeolite-like framework for highly selective CO2/CH4 and CO2/N2 separation. *Chemical Communications*, **2014**, 50, 12101-4	5.8	73
239	Nanoscale MOF/organosilica membranes on tubular ceramic substrates for highly selective gas separation. *Energy and Environmental Science*, **2017**, 10, 1812-1819	35.4	73
238	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 22756-22762	16.4	73
237	Origin of long-range ferromagnetic ordering in metal-organic frameworks with antiferromagnetic dimeric-Cu(II) building units. *Journal of the American Chemical Society*, **2012**, 134, 17286-90	16.4	72
236	Control of interpenetration in a microporous metal-organic framework for significantly enhanced C2H2/CO2 separation at room temperature. *Chemical Communications*, **2016**, 52, 3494-6	5.8	71
235	Funktionelle Gemischtmetall-organische Gerüste mit Metalloliganden. *Angewandte Chemie*, **2011**, 123, 10696-10707	3.6	71
234	A Rare Uninodal 9-Connected Metal□Organic Framework with Permanent Porosity. *Crystal Growth and Design*, **2010**, 10, 2372-2375	3.5	70

233	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal□organic framework. *Journal of Materials Chemistry A*, **2017**, 5, 18984-18988	13	68
232	A flexible zinc tetrazolate framework exhibiting breathing behaviour on xenon adsorption and selective adsorption of xenon over other noble gases. *Journal of Materials Chemistry A*, **2015**, 3, 10747-10752	13	67
231	Kinetic separation of propylene over propane in a microporous metal-organic framework. *Chemical Engineering Journal*, **2018**, 354, 977-982	14.7	67
230	□Po Nets of Copper(II)-trans-1,4-Cyclohexanedicarboxylate Frameworks Based on a Paddle-Wheel Building Block and Its Enlarged Dimer. *Crystal Growth and Design*, **2006**, 6, 825-828	3.5	67
229	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. *Journal of the American Chemical Society*, **2020**, 142, 17795-17801	16.4	67
228	Construction of Hierarchical Metal-Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO Conversion. *Advanced Materials*, **2019**, 31, e1904969	24	67
227	Optimizing Pore Space for Flexible-Robust Metal-Organic Framework to Boost Trace Acetylene Removal. *Journal of the American Chemical Society*, **2020**, 142, 9744-9751	16.4	66
226	New prototype isoreticular metal-organic framework Zn(4)O(FMA)(3) for gas storage. *Inorganic Chemistry*, **2009**, 48, 4649-51	5.1	66
225	Versatile Assembly of Metal-Coordinated Calix[4]resorcinarene Cavitands and Cages through Ancillary Linker Tuning. *Journal of the American Chemical Society*, **2017**, 139, 7648-7656	16.4	65
224	Doubly Interpenetrated Metal□Organic Framework for Highly Selective C2H2/CH4 and C2H2/CO2 Separation at Room Temperature. *Crystal Growth and Design*, **2016**, 16, 7194-7197	3.5	65
223	Emerging functional chiral microporous materials: synthetic strategies and enantioselective separations. *Materials Today*, **2016**, 19, 503-515	21.8	63
222	Hydrogen-bonding 2D metal-organic solids as highly robust and efficient heterogeneous green catalysts for Biginelli reaction. *Tetrahedron Letters*, **2011**, 52, 6220-6222	2	63
221	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO Combined with Ultrahigh Uptake Capacity. *ACS Applied Materials & Interfaces*, **2018**, 10, 16628-16635	9.5	61
220	Low-energy regeneration and high productivity in a lanthanide-hexacarboxylate framework for high-pressure CO2-CH4-H2 separation. *Chemical Communications*, **2013**, 49, 6773-5	5.8	61
219	Metal□Organic Framework with Functional Amide Groups for Highly Selective Gas Separation. *Crystal Growth and Design*, **2013**, 13, 2670-2674	3.5	61
218	Open Metal Sites within Isostructural Metal□Organic Frameworks for Differential Recognition of Acetylene and Extraordinarily High Acetylene Storage Capacity at Room Temperature. *Angewandte Chemie*, **2010**, 122, 4719-4722	3.6	61
217	Expanded organic building units for the construction of highly porous metal-organic frameworks. *Chemistry - A European Journal*, **2013**, 19, 14886-94	4.8	60
216	Metastable interwoven mesoporous metal-organic frameworks. *Inorganic Chemistry*, **2013**, 52, 11580-4	5.1	59

215	A microporous metal–organic framework assembled from an aromatic tetracarboxylate for H2 purification. *Journal of Materials Chemistry A*, **2013**, 1, 2543	13	59
214	From Coordination Cages to a Stable Crystalline Porous Hydrogen-Bonded Framework. *Chemistry - A European Journal*, **2017**, 23, 4774-4777	4.8	58
213	A microporous metal-organic framework of a rare sty topology for high CH4 storage at room temperature. *Chemical Communications*, **2013**, 49, 2043-5	5.8	58
212	Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. *Chemical Communications*, **2017**, 53, 11150-11153	5.8	58
211	Selective gas adsorption within a five-connected porous metal–organic framework. *Journal of Materials Chemistry*, **2010**, 20, 3984		58
210	Fine-tuning of nano-traps in a stable metal–organic framework for highly efficient removal of propyne from propylene. *Journal of Materials Chemistry A*, **2018**, 6, 6931-6937	13	57
209	High acetylene/ethylene separation in a microporous zinc(II) metal-organic framework with low binding energy. *Chemical Communications*, **2016**, 52, 1166-9	5.8	57
208	Simultaneous implementation of resistive switching and rectifying effects in a metal-organic framework with switched hydrogen bond pathway. *Science Advances*, **2019**, 5, eaaw4515	14.3	54
207	A microporous metal-organic framework with rare lvt topology for highly selective C2H2/C2H4 separation at room temperature. *Chemical Communications*, **2015**, 51, 5610-3	5.8	54
206	A Flexible Metal–Organic Framework: Guest Molecules Controlled Dynamic Gas Adsorption. *Journal of Physical Chemistry C*, **2015**, 119, 9442-9449	3.8	53
205	Enantioselective ring-opening of meso-epoxides by aromatic amines catalyzed by a homochiral metal-organic framework. *Chemical Communications*, **2013**, 49, 9836-8	5.8	52
204	Microporous Lanthanide Metal-Organic Framework Constructed from Lanthanide Metalloligand for Selective Separation of CH/CO and CH/CH at Room Temperature. *Inorganic Chemistry*, **2017**, 56, 7145-7150	5.1	52
203	A robust microporous metal–organic framework constructed from a flexible organic linker for acetylene storage at ambient temperature. *Journal of Materials Chemistry*, **2012**, 22, 10195		52
202	Significantly Enhanced CO2/CH4 Separation Selectivity within a 3D Prototype Metal–Organic Framework Functionalized with OH Groups on Pore Surfaces at Room Temperature. *European Journal of Inorganic Chemistry*, **2011**, 2011, 2227-2231	2.3	52
201	Thiophene-2,5-dicarboxylic acid incorporated self-assembly of one-, two- and three-dimensional coordination polymers. *New Journal of Chemistry*, **1999**, 23, 877-883	3.6	52
200	A Light-Responsive Metal-Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. *Angewandte Chemie - International Edition*, **2020**, 59, 7732-7737	16.4	51
199	Single and Multicomponent Sorption of CO2, CH4 and N2 in a Microporous Metal-Organic Framework. *Separation Science and Technology*, **2008**, 43, 3494-3521	2.5	51
198	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. *Journal of Materials Chemistry A*, **2017**, 5, 8292-8296	13	50

197	Metal□rganic framework coated titanium dioxide nanorod array p□ heterojunction photoanode for solar water-splitting. *Nano Research*, **2019**, 12, 643-650	10	50
196	A microporous metal□rganic framework with commensurate adsorption and highly selective separation of xenon. *Journal of Materials Chemistry A*, **2018**, 6, 4752-4758	13	49
195	A Microporous Metal□Organic Framework Constructed from a New Tetracarboxylic Acid for Selective Gas Separation. *Crystal Growth and Design*, **2014**, 14, 2522-2526	3.5	49
194	A stable microporous mixed-metal metal-organic framework with highly active Cu2+ sites for efficient cross-dehydrogenative coupling reactions. *Chemistry - A European Journal*, **2014**, 20, 1447-52	4.8	49
193	Highly Interpenetrated Robust Microporous Hydrogen-Bonded Organic Framework for Gas Separation. *Crystal Growth and Design*, **2017**, 17, 6132-6137	3.5	48
192	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. *Advanced Materials*, **2020**, 32, e1907995	24	48
191	A Robust Mixed-Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. *Angewandte Chemie - International Edition*, **2020**, 59, 21752-21757	16.4	48
190	A metal-organic framework with immobilized Ag(i) for highly efficient desulfurization of liquid fuels. *Chemical Communications*, **2015**, 51, 12205-7	5.8	47
189	Second-Order Nonlinear Optical Activity Induced by Ordered Dipolar Chromophores Confined in the Pores of an Anionic Metal□Organic Framework. *Angewandte Chemie*, **2012**, 124, 10694-10697	3.6	47
188	A New Multidentate Hexacarboxylic Acid for the Construction of Porous Metal□Organic Frameworks of Diverse Structures and Porosities. *Crystal Growth and Design*, **2010**, 10, 2775-2779	3.5	47
187	Metal□Organic Frameworks for Photo/Electrocatalysis. *Advanced Energy and Sustainability Research* , **2021**, 2, 2100033	1.6	47
186	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal□Organic Frameworks. *Angewandte Chemie*, **2018**, 130, 16252-16257	3.6	47
185	Elucidating heterogeneous photocatalytic superiority of microporous porphyrin organic cage. *Nature Communications*, **2020**, 11, 1047	17.4	46
184	Efficient separation of CH from CH/CO mixtures in an acid-base resistant metal-organic framework. *Chemical Communications*, **2018**, 54, 4846-4849	5.8	46
183	A Porous Zirconium-Based Metal-Organic Framework with the Potential for the Separation of Butene Isomers. *Chemistry - A European Journal*, **2016**, 22, 14988-14997	4.8	46
182	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. *Angewandte Chemie - International Edition*, **2019**, 58, 10209-10214	16.4	45
181	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. *Journal of the American Chemical Society*, **2021**, 143, 7104-7113	16.4	45
180	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. *Nature Chemistry*, **2021**, 13, 933-939	17.6	45

179	Recent developments in metal-metalloporphyrin frameworks. *Dalton Transactions*, **2015**, 44, 14574-83	4.3	44
178	An amino-decorated NbO-type metal–organic framework for high C2H2 storage and selective CO2 capture. *RSC Advances*, **2015**, 5, 77417-77422	3.7	44
177	Effective and selective adsorption of organoarsenic acids from water over a Zr-based metal-organic framework. *Chemical Engineering Journal*, **2019**, 378, 122196	14.7	44
176	A sulfonate-based Cu(I) metal-organic framework as a highly efficient and reusable catalyst for the synthesis of propargylamines under solvent-free conditions. *Chinese Chemical Letters*, **2015**, 26, 6-10	8.1	43
175	Microporous Metal–Organic Framework with Exposed Amino Functional Group for High Acetylene Storage and Excellent C2H2/CO2 and C2H2/CH4 Separations. *Crystal Growth and Design*, **2017**, 17, 2319-2322	3.5	42
174	A highly porous NbO type metal-organic framework constructed from an expanded tetracarboxylate. *Chemical Communications*, **2014**, 50, 1552-4	5.8	42
173	Multi-component synthesis of 2-amino-6-(alkyllthio)pyridine-3,5-dicarbonitriles using Zn(II) and Cd(II) metal-organic frameworks (MOFs) under solvent-free conditions. *Tetrahedron Letters*, **2012**, 53, 4870-4872	2	42
172	Synthesis, characterization and crystal structures of three diverse copper (II) complexes with thiophene-2,5-dicarboxylic acid and 1,10-phenanthroline. *Polyhedron*, **1998**, 17, 4237-4247	2.7	42
171	Syntheses, structures and properties of copper(II) complexes with thiophene-2,5-dicarboxylic acid (H2Tda) and nitrogen-containing ligands. *Polyhedron*, **1999**, 18, 1211-1220	2.7	42
170	Boosting Ethylene/Ethane Separation within Copper(I)-Chelated Metal-Organic Frameworks through Tailor-Made Aperture and Specific π-Complexation. *Advanced Science*, **2020**, 7, 1901918	13.6	41
169	Design and applications of water-stable metal-organic frameworks: status and challenges. *Coordination Chemistry Reviews*, **2020**, 423, 213507	23.2	41
168	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 10304-10310	16.4	41
167	Polystyrene Sulfonate Threaded through a Metal–Organic Framework Membrane for Fast and Selective Lithium-Ion Separation. *Angewandte Chemie*, **2016**, 128, 15344-15348	3.6	40
166	A porous metal–organic framework with an elongated anthracene derivative exhibiting a high working capacity for the storage of methane. *Journal of Materials Chemistry A*, **2014**, 2, 11516	13	40
165	Two Chiral Nonlinear Optical Coordination Networks Based on Interwoven Two-Dimensional Square Grids of Double Helices. *Crystal Growth and Design*, **2010**, 10, 5291-5296	3.5	40
164	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. *ACS Sustainable Chemistry and Engineering*, **2019**, 7,	8.3	39
163	Gas Separation via Hybrid Metal–Organic Framework/Polymer Membranes. *Trends in Chemistry*, **2020**, 2, 254-269	14.8	38
162	A three-dimensional microporous metal-metalloporphyrin framework. *Inorganic Chemistry*, **2015**, 54, 200-4	5.1	37

161	Achieving High Performance Metal-Organic Framework Materials through Pore Engineering. *Accounts of Chemical Research*, **2021**, 54, 3362-3376	24.3	37
160	A Metal□Organic Framework with Optimized Open Metal Sites and Pore Spaces for High Methane Storage at Room Temperature. *Angewandte Chemie*, **2011**, 123, 3236-3239	3.6	36
159	A microporous metal-organic framework with polarized trifluoromethyl groups for high methane storage. *Chemical Communications*, **2015**, 51, 14789-92	5.8	35
158	Three novel isomeric zinc metal-organic frameworks from a tetracarboxylate linker. *Inorganic Chemistry*, **2012**, 51, 7066-74	5.1	35
157	A new microporous metal□rganic framework with open metal sites and exposed carboxylic acid groups for selective separation of CO2/CH4 and C2H2/CH4. *RSC Advances*, **2014**, 4, 36419	3.7	34
156	A mesoporous lanthanide□rganic framework constructed from a dendritic hexacarboxylate with cages of 2.4 nm. *CrystEngComm*, **2013**, 15, 9328	3.3	33
155	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. *Chemical Communications*, **2019**, 56, 66-69	5.8	33
154	Low-Cost and High-Performance Microporous Metal□Organic Framework for Separation of Acetylene from Carbon Dioxide. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1667-1672	8.3	33
153	Mixed Metal□Organic Framework with Multiple Binding Sites for Efficient C2H2/CO2 Separation. *Angewandte Chemie*, **2020**, 132, 4426-4430	3.6	32
152	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 8983-8989	16.4	32
151	Highly selective separation of small hydrocarbons and carbon dioxide in a metal□rganic framework with open copper(II) coordination sites. *RSC Advances*, **2014**, 4, 23058	3.7	31
150	A Fluorescent Metal-Organic Framework for Food Real-Time Visual Monitoring. *Advanced Materials*, **2021**, 33, e2008020	24	31
149	Novel microporous metal-organic framework exhibiting high acetylene and methane storage capacities. *Inorganic Chemistry*, **2015**, 54, 4377-81	5.1	30
148	Loading Photochromic Molecules into a Luminescent Metal□Organic Framework for Information Anticounterfeiting. *Angewandte Chemie*, **2019**, 131, 18193-18199	3.6	30
147	A Metal□Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. *Angewandte Chemie*, **2018**, 130, 15403-15408	3.6	30
146	Cr 2 O 3 @TiO 2 yolk/shell octahedrons derived from a metal□rganic framework for high-performance lithium-ion batteries. *Microporous and Mesoporous Materials*, **2015**, 203, 86-90	5.3	29
145	Benchmark C H /CO Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. *Angewandte Chemie - International Edition*, **2021**, 60, 15995-16002	16.4	29
144	A highly stable amino-coordinated MOF for unprecedented block off N adsorption and extraordinary CO/N separation. *Chemical Communications*, **2016**, 52, 13568-13571	5.8	28

143	A Twofold Interpenetrated Metal-Organic Framework with High Performance in Selective Separation of C H /CH. *ChemPlusChem*, **2016**, 81, 770-774	2.8	28
142	A Fluorinated Metal□Organic Framework for High Methane Storage at Room Temperature. *Crystal Growth and Design*, **2016**, 16, 3395-3399	3.5	28
141	Microporous Copper Isophthalate Framework of mot Topology for C2H2/CO2 Separation. *Crystal Growth and Design*, **2019**, 19, 5829-5835	3.5	27
140	Solvent Dependent Structures of Melamine: Porous or Nonporous?. *Crystal Growth and Design*, **2015**, 15, 1871-1875	3.5	27
139	Light-gated cation-selective transport in metal□organic framework membranes. *Journal of Materials Chemistry A*, **2020**, 8, 11399-11405	13	27
138	A Terbium-Organic Framework Material for Highly Sensitive Sensing of Fe3+ in Aqueous and Biological Systems: Experimental Studies and Theoretical Analysis. *ChemistrySelect*, **2016**, 1, 3555-3561	1.8	27
137	A new MOF-5 homologue for selective separation of methane from C2 hydrocarbons at room temperature. *APL Materials*, **2014**, 2, 124102	5.7	27
136	Periodically Aligned Dye Molecules Integrated in a Single MOF Microcrystal Exhibit Single-Mode Linearly Polarized Lasing. *Advanced Optical Materials*, **2017**, 5, 1601040	8.1	26
135	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. *Angewandte Chemie - International Edition*, **2021**, 60, 9604-9609	16.4	26
134	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. *Angewandte Chemie - International Edition*, **2021**, 60, 20400-20406	16.4	26
133	Reversing CH-CO adsorption selectivity in an ultramicroporous metal-organic framework platform. *Chemical Communications*, **2019**, 55, 11354-11357	5.8	25
132	Fine-Tuning Porous Metal-Organic Frameworks for Gas Separations at Will. *CheM*, **2016**, 1, 669-671	16.2	25
131	Separation of C2 hydrocarbons from methane in a microporous metal-organic framework. *Journal of Solid State Chemistry*, **2018**, 258, 346-350	3.3	25
130	A microporous metal□organic framework for selective C 2 H 2 and CO 2 separation. *Journal of Solid State Chemistry*, **2017**, 252, 138-141	3.3	24
129	A microporous metal-organic framework of sql topology for C2H2/CO2 separation. *Inorganica Chimica Acta*, **2019**, 495, 118938	2.7	24
128	Deep Desulfurization with Record SO Adsorption on the Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 9040-9047	16.4	24
127	Dye-Modified Metal-Organic Framework as a Recyclable Luminescent Sensor for Nicotine Determination in Urine Solution and Living Cell. *ACS Applied Materials & Interfaces*, **2019**, 11, 47253-47258	9.5	24
126	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. *Nano Research*, **2021**, 14, 507-511	10	24

125	Two-dimensional metal□organic frameworks for selective separation of CO2/CH4 and CO2/N2. *Materials Chemistry Frontiers*, **2017**, 1, 1514-1519	7.8	23
124	A metal□organic framework as a highly efficient and reusable catalyst for the solvent-free 1,3-dipolar cycloaddition of organic azides to alkynes. *Inorganic Chemistry Frontiers*, **2015**, 2, 42-46	6.8	23
123	Coordination assembly of 2D ordered organic metal chalcogenides with widely tunable electronic band gaps. *Nature Communications*, **2020**, 11, 261	17.4	23
122	Highly selective room temperature acetylene sorption by an unusual triacetylenic phosphine MOF. *Chemical Communications*, **2018**, 54, 9937-9940	5.8	23
121	A NbO type microporous metal□organic framework constructed from a naphthalene derived ligand for CH4 and C2H2 storage at room temperature. *RSC Advances*, **2014**, 4, 49457-49461	3.7	23
120	Crystal Structures of (Pyrene)10(I3-)4(I2)10 and [1,3,6,8-Tetrakis(methylthio)pyrene]3(I3-)3(I2)7: Structural Trends in Fused Aromatic Polyiodides. *Chemistry of Materials*, **2003**, 15, 1420-1433	9.6	23
119	A flexible metal-organic framework with double interpenetration for highly selective CO2 capture at room temperature. *Science China Chemistry*, **2016**, 59, 965-969	7.9	22
118	Nickel-4Q(3,5-dicarboxyphenyl)-2,2Q6Q2?-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. *Inorganic Chemistry*, **2018**, 57, 9489-9494	5.1	22
117	A microporous metal□organic framework with Lewis basic pyridyl sites for selective gas separation of C2H2/CH4 and CO2/CH4 at room temperature. *CrystEngComm*, **2013**, 15, 5232	3.3	22
116	Dense Packing of Acetylene in a Stable and Low-Cost Metal-Organic Framework for Efficient C H /CO Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 25068-25074	16.4	22
115	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal□Organic Framework. *Crystal Growth and Design*, **2017**, 17, 2172-2177	3.5	21
114	A two-dimensional microporous metal□organic framework for highly selective adsorption of carbon dioxide and acetylene. *Chinese Chemical Letters*, **2017**, 28, 1653-1658	8.1	21
113	Separation of C2/C1 hydrocarbons through a gate-opening effect in a microporous metal□organic framework. *CrystEngComm*, **2017**, 19, 6896-6901	3.3	21
112	A Flexible Microporous Hydrogen-Bonded Organic Framework. *Crystal Growth and Design*, **2019**, 19, 5184-5188	3.5	21
111	Modeling adsorption equilibria of xylene isomers in a microporous metal□organic framework. *Microporous and Mesoporous Materials*, **2012**, 155, 220-226	5.3	21
110	Tuning Gate-Opening of a Flexible Metal□Organic Framework for Ternary Gas Sieving Separation. *Angewandte Chemie*, **2020**, 132, 22944-22950	3.6	21
109	A microporous metal-organic framework with naphthalene diimide groups for high methane storage. *Dalton Transactions*, **2020**, 49, 3658-3661	4.3	21
108	Predictive models of gas sorption in a metal-organic framework with open-metal sites and small pore sizes. *Physical Chemistry Chemical Physics*, **2017**, 19, 18587-18602	3.6	20

107	A Noninterpenetrated Metal–Organic Framework Built from an Enlarged Tetracarboxylic Acid for Small Hydrocarbon Separation. *Crystal Growth and Design*, **2015**, 15, 4071-4074	3.5	20
106	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. *Angewandte Chemie*, **2017**, 129, 11584-11588	3.6	20
105	Fine pore engineering in a series of isoreticular metal-organic frameworks for efficient CH/CO separation.. *Nature Communications*, **2022**, 13, 200	17.4	20
104	MOF-Nanocomposite Mixed-Matrix Membrane for Dual-Luminescence Ratiometric Temperature Sensing. *Advanced Optical Materials*, **2021**, 9, 2100945	8.1	20
103	A Three-Dimensional Tetraphenylethene-Based Metal–Organic Framework for Selective Gas Separation and Luminescence Sensing of Metal Ions. *European Journal of Inorganic Chemistry*, **2016**, 2016, 4470-4475	2.3	19
102	Embedding Red Emitters in the NbO-Type Metal-Organic Frameworks for Highly Sensitive Luminescence Thermometry over Tunable Temperature Range. *ACS Applied Materials & Interfaces*, **2021**, 13, 11078-11088	9.5	19
101	MIL-100Cr with open Cr sites for a record NO capture. *Chemical Communications*, **2018**, 54, 14061-14064	5.8	19
100	Metal–Organic Framework with Trifluoromethyl Groups for Selective C2H2 and CO2 Adsorption. *Crystal Growth and Design*, **2018**, 18, 4522-4527	3.5	18
99	A robust microporous metal–organic framework constructed from a flexible organic linker for highly selective sorption of methanol over ethanol and water. *Journal of Materials Chemistry*, **2012**, 22, 10352		18
98	Controllable broadband multicolour single-mode polarized laser in a dye-assembled homoepitaxial MOF microcrystal. *Light: Science and Applications*, **2020**, 9, 138	16.7	18
97	Lanthanide Metal-Organic Frameworks for Luminescent Applications. *Fundamental Theories of Physics*, **2016**, 50, 243-268	0.8	18
96	Holographic fabrication of graded photonic super-crystals using an integrated spatial light modulator and reflective optical element laser projection system. *Applied Optics*, **2017**, 56, 9888	1.7	17
95	Solvent Dependent Structures of Hydrogen-Bonded Organic Frameworks of 2,6-Diaminopurine. *Crystal Growth and Design*, **2014**, 14, 3634-3638	3.5	17
94	Structural diversity in silver(I) and gold(I) complexes with 2,5-bis(diphenylphosphinomethyl)thiophene. *Journal of the Chemical Society Dalton Transactions*, **1998**, 4035-4042		17
93	A Threefold Interpenetrated Pillared-Layer Metal-Organic Framework for Selective Separation of C H /CH and CO /CH. *ChemPlusChem*, **2016**, 81, 764-769	2.8	17
92	Construction of a thiourea-based metal–organic framework with open Ag+ sites for the separation of propene/propane mixtures. *Journal of Materials Chemistry A*, **2019**, 7, 25567-25572	13	17
91	Holographic fabrication of graded photonic super-quasi-crystals with multiple-level gradients. *Applied Optics*, **2018**, 57, 6598-6604	1.7	16
90	Luminescent Properties and Applications of Metal-Organic Frameworks. *Structure and Bonding*, **2013**, 27-88	0.9	16

89	An Ultramicroporous Metal–Organic Framework for Sieving Separation of Carbon Dioxide from Methane. *Small Structures*, **2020**, 1, 2000022	8.7	16
88	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. *Israel Journal of Chemistry*, **2018**, 58, 949-961	3.4	16
87	A Robust Mixed-Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. *Angewandte Chemie*, **2020**, 132, 21936-21941	3.6	15
86	Reducing CO2 with Stable Covalent Organic Frameworks. *Joule*, **2018**, 2, 1030-1032	27.8	15
85	An amino-coordination metal–organic framework for highly selective C2H2/CH4 and C2H2/C2H4 separations through the appropriate control of window sizes. *RSC Advances*, **2017**, 7, 20795-20800	3.7	14
84	Boosting the photoreduction activity of Cr(VI) in metal–organic frameworks by photosensitiser incorporation and framework ionization. *Journal of Materials Chemistry A*, **2020**, 8, 17219-17228	13	14
83	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. *Angewandte Chemie*, **2021**, 133, 10392-10398	3.6	14
82	Incorporation of N-Methyl-d-glucamine Functionalized Oligomer into MIL-101(Cr) for Highly Efficient Removal of Boric Acid from Water. *Chemistry - A European Journal*, **2016**, 22, 15290-15297	4.8	14
81	Reversed ethane/ethylene adsorption in a metal-organic framework introduction of oxygen. *Chinese Journal of Chemical Engineering*, **2020**, 28, 593-593	3.2	14
80	Bimetallic Hofmann-Type Metal–Organic Framework Nanoparticles for Efficient Electrocatalysis of Oxygen Evolution Reaction. *ACS Applied Energy Materials*, **2018**,	6.1	14
79	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. *Advanced Materials*, **2021**, 33, e2105880	24	14
78	Porous Lanthanide Metal–Organic Frameworks for Gas Storage and Separation. *Structure and Bonding*, **2014**, 75-107	0.9	13
77	Robust Microporous Metal–Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. *Angewandte Chemie*, **2019**, 131, 10315-10320	3.6	12
76	A new NbO type metal–organic framework for high acetylene and methane storage. *RSC Advances*, **2015**, 5, 84446-84450	3.7	12
75	A novel Zn-based heterocycle metal-organic framework for high C2H2/C2H4, CO2/CH4 and CO2/N2 separations. *Journal of Solid State Chemistry*, **2017**, 255, 102-107	3.3	12
74	Synthesis, crystal structures and dynamic NMR studies of novel trinuclear copper(I) halide complexes with 2,5-bis[(diphenylphosphino)methyl]thiophene. *Journal of the Chemical Society Dalton Transactions*, **1998**, 2861-2866		12
73	Efficient CH/CO Separation in Ultramicroporous Metal-Organic Frameworks with Record CH Storage Density. *Journal of the American Chemical Society*, **2021**, 143, 14869-14876	16.4	12
72	How Reproducible are Surface Areas Calculated from the BET Equation?. *Advanced Materials*,2201502	24	12

71	Construction of ntt-Type Metal–Organic Framework from C2-Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. *Crystal Growth and Design*, **2017**, 17, 4795-4800	3.5	11
70	Packing Principles of Thioether Derivatives of Triarylamine Silver Salts. *Crystal Growth and Design*, **2002**, 2, 101-105	3.5	11
69	Recent progress on porous MOFs for process-efficient hydrocarbon separation, luminescent sensing, and information encryption.. *Chemical Communications*, **2022**,	5.8	11
68	Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture.. *Journal of the American Chemical Society*, **2022**,	16.4	11
67	Robust and Radiation-Resistant Hofmann-Type Metal-Organic Frameworks for Record Xenon/Krypton Separation.. *Journal of the American Chemical Society*, **2022**,	16.4	11
66	Isoreticular Microporous Metal-Organic Frameworks for Carbon Dioxide Capture. *Inorganic Chemistry*, **2020**, 59, 17143-17148	5.1	11
65	Conjugated Microporous Polymers with Rigid Backbones for Organic Solvent Nanofiltration. *CheM*, **2018**, 4, 2269-2271	16.2	11
64	A microporous metal-organic framework with basic sites for efficient C2H2/CO2 separation. *Journal of Solid State Chemistry*, **2020**, 284, 121209	3.3	10
63	A copper-based metal–organic framework constructed from a new tetracarboxylic acid for selective gas separation. *Inorganic Chemistry Communication*, **2014**, 49, 34-36	3.1	10
62	Stable Eu/Cu-Functionalized Supramolecular Zinc(II) Complexes as Fluorescent Probes for Turn-On and Ratiometric Detection of Hydrogen Sulfide. *ACS Applied Materials & Interfaces*, **2021**, 13, 20371-20379	9.5	10
61	Benchmark C2H2/CO2 Separation in an Ultra-Microporous Metal–Organic Framework via Copper(I)-Alkynyl Chemistry. *Angewandte Chemie*, **2021**, 133, 16131-16138	3.6	10
60	A novel hydrogen-bonded organic framework for the sensing of two representative organic arsenics. *Canadian Journal of Chemistry*, **2020**, 98, 352-357	0.9	9
59	Some equivalent two-dimensional weavings at the molecular scale in 2D and 3D metal–organic frameworks. *CrystEngComm*, **2016**, 18, 7607-7613	3.3	9
58	A two-dimensional metal-organic framework composed of paddle-wheel cobalt clusters with permanent porosity. *Inorganic Chemistry Communication*, **2016**, 74, 98-101	3.1	9
57	Single Crystal Perovskite Microplate for High-Order Multiphoton Excitation. *Small Methods*, **2019**, 3, 1900396	12.4	9
56	Creating Optimal Pockets in a Clathrochelate-Based Metal-Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies.. *Journal of the American Chemical Society*, **2022**,	16.4	9
55	A two dimensional microporous metal-organic framework for selective gas separation. *Inorganic Chemistry Communication*, **2014**, 50, 106-109	3.1	8
54	Maximizing Electroactive Sites in a Three-Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. *Angewandte Chemie - International Edition*, **2021**,	16.4	8

53	Doubly Interpenetrated Metal-Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. *ACS Applied Materials & Interfaces*, **2020**, 12, 48712-48717	9.5	8
52	Realization of Ethylene Production from Its Quaternary Mixture through Metal-Organic Framework Materials. *ACS Applied Materials & Interfaces*, **2021**, 13, 22514-22520	9.5	8
51	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metal-Organic Frameworks with Unprecedented Johnson-type () Nonanuclear Zr-Oxocarboxylate Clusters. *Journal of the American Chemical Society*, **2021**, 143, 657-663	16.4	8
50	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogen-Bonded Organic Framework for Propyne/Propylene Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 25942-25948	16.4	8
49	Tailoring the pore geometry and chemistry in microporous metal-organic frameworks for high methane storage working capacity. *Chemical Communications*, **2019**, 55, 11402-11405	5.8	7
48	Metal-organic frameworks capable of healing at low temperatures. *Advanced Materials*, **2013**, 25, 6106-11	14	7
47	The Molecular Structure of a Schiff Base Complex, [N,N?-Ethylenebis(1-phenyl-2-imino-1-butanonato)](acetonitrile)manganese(III) Perchlorate. *Bulletin of the Chemical Society of Japan*, **1989**, 62, 2384-2386	5.1	7
46	Emerging microporous HOF materials to address global energy challenges. *Joule*, **2022**, 6, 22-27	27.8	7
45	Maximizing acetylene packing density for highly efficient C2H2/CO2 separation through immobilization of amine sites within a prototype MOF. *Chemical Engineering Journal*, **2022**, 431, 134184	14.7	7
44	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. *Angewandte Chemie*, **2021**, 133, 9690-9695	3.6	7
43	Air-Free Synthesis of a Ferrous Metal-Organic Framework Featuring HKUST-1 Structure and its Mössbauer Spectrum. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2019**, 645, 797-800	1.3	6
42	Construction of a functionalized hierarchical pore metal-organic framework via a palladium-reduction induced strategy. *Nanoscale*, **2020**, 12, 6250-6255	7.7	6
41	3-(4-cyanophenyl)pentane-2,4-dione and its copper(II) complex. *Acta Crystallographica Section C: Crystal Structure Communications*, **2004**, 60, m147-9		6
40	Efficient Separation of Propylene from Propane in an Ultramicroporous Cyanide-Based Compound with Open Metal Sites. *Small Structures*,2100125	8.7	6
39	Collaborative pore partition and pore surface fluorination within a metal–organic framework for high-performance C2H2/CO2 separation. *Chemical Engineering Journal*, **2022**, 432, 134433	14.7	6
38	A novel expanded metal-organic framework for balancing volumetric and gravimetric methane storage working capacities. *Chemical Communications*, **2020**, 56, 13117-13120	5.8	6
37	An anthracene based conjugated triazine framework as a luminescent probe for selective sensing of p-nitroaniline and Fe(III) ions. *Materials Chemistry Frontiers*, **2021**, 5, 6568-6574	7.8	6
36	A Light-Responsive Metal–Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. *Angewandte Chemie*, **2020**, 132, 7806-7811	3.6	5

35	An ultrastable and easily regenerated HOF for the selective storage and separation of light hydrocarbons. *Science China Chemistry*, **2017**, 60, 683-684	7.9	5
34	Robust Nanoporous Supramolecular Network Through Charge-Transfer Interaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 43987-43992	9.5	5
33	Of HOF hosts. *Nature Chemistry*, **2019**, 11, 1078-1080	17.6	4
32	Poly[(□-trans-di-4-pyridylethylene-□N:N?)(□-fumarato-□O:O?)zinc(II)]. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, m2205-m2205		4
31	A Molecular Compound for Highly Selective Purification of Ethylene. *Angewandte Chemie - International Edition*, **2021**,	16.4	4
30	Old Materials for New Functions: Recent Progress on Metal Cyanide Based Porous Materials. *Advanced Science*, **2021**, e2104234	13.6	4
29	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 9065-9071	3.6	4
28	Confined Thermolysis for Oriented N-Doped Carbon Supported Pd toward Stable Catalytic and Energy Storage Applications. *Small*, **2021**, 17, e2002811	11	4
27	Mechanochemical synthesis of an ethylene sieve UTSA-280. *Journal of Solid State Chemistry*, **2020**, 287, 121321	3.3	3
26	Gas Separation: A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). *Advanced Materials*, **2018**, 30, 1870068	24	3
25	Gas Purification: Ultrahigh and Selective SO2 Uptake in Inorganic Anion-Pillared Hybrid Porous Materials (Adv. Mater. 28/2017). *Advanced Materials*, **2017**, 29,	24	3
24	Porous Coordination Polymers for Heterogeneous Catalysis. *Current Organic Chemistry*, **2018**, 22, 1773-1791	1.7	3
23	Emerging 2D functional metal-organic framework materials. *National Science Review*, **2020**, 7, 3-5	10.8	3
22	Novel route to size-controlled synthesis of MnFeO@MOF core-shell nanoparticles. *Journal of Solid State Chemistry*, **2020**, 283, 121127-121127	3.3	3
21	Progress in Multifunctional Metal-Organic Frameworks/Polymer Hybrid Membranes. *Chemistry - A European Journal*, **2021**, 27, 12940-12952	4.8	3
20	Current Status of Porous Metal□Organic Frameworks for Methane Storage **2018**, 163-198		2
19	Chloro[N,N?-ethylenebis(5-carboxysalicylideneiminato)]iron(III). *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, m732-m734		2
18	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. *Angewandte Chemie*, **2021**, 133, 20563-20569	3.6	2

List of Publications

17	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogen-Bonded Organic Framework for Propyne/Propylene Separation. *Angewandte Chemie*,	3.6	2
16	Multifunctional Pd/MOFs@MOFs Confined Core-Shell Catalysts with Wrinkled Surface for Selective Catalysis. *Chemistry - an Asian Journal*, **2021**, 16, 3743-3747	4.5	2
15	An ultramicroporous metal-organic framework with record high selectivity for inverse CO2/C2H2 separation. *Bulletin of the Chemical Society of Japan*,	5.1	2
14	Identifying the Gate-Opening Mechanism in the Flexible Metal-Organic Framework UTSA-300.. *Inorganic Chemistry*, **2022**,	5.1	2
13	An ultramicroporous metal□organic framework with dual functionalities for high sieving separation of CO2 from CH4 and N2. *Chemical Engineering Journal*, **2022**, 446, 137101	14.7	2
12	Collaborative interactions to enhance gas binding energy in porous metal-organic frameworks. *IUCrJ*, **2017**, 4, 106-107	4.7	1
11	New Progress of Microporous Metal□Organic Frameworks in CO2 Capture and Separation **2018**, 112-179		1
10	Metal□Organic Frameworks: Frameworks Containing Open Sites **2014**, 1-23		1
9	Two structurally different praseodymium-organic frameworks with permanent porosity. *Inorganic Chemistry Communication*, **2014**, 45, 89-92	3.1	0
8	A dynamic MOF for efficient purification of propylene. *Science China Chemistry*, **2021**, 64, 2053	7.9	0
7	K-Chabazite Zeolite Nanocrystal Aggregates for Highly Efficient Methane Separation.. *Angewandte Chemie - International Edition*, **2021**, e202116850	16.4	0
6	Syntheses and Crystal Structures of Three Metal-Organic Frameworks Constructed from a C3-Symmetrical Tricarboxylic Acid. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2015**, 641, 1571-1574	1.3	
5	Metal□Organic Frameworks: Metal□Organic Frameworks Capable of Healing at Low Temperatures (Adv. Mater. 42/2013). *Advanced Materials*, **2013**, 25, 6148-6148	24	
4	Poly[bis(□-trans-di-4-pyridylethylene-□N:N?)bis(nitrato-□O,O?)bis(□-succinato-□O:O?:O??:O???)(□-succinato-□O:O:O?:O?)te *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, m382-m384		
3	Poly[diaquabis(□-4,4?-bipyridine)bis(□-5,5?-dicarboxybiphenyl-2,2?-dicarboxylato)dicobalt(II) tetrahydrate]. *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, m1906-m1908		
2	Expanding dynamic framework materials into COFs through HOF approach. *CheM*, **2022**, 8, 7-9	16.2	
1	A peroxide-based conjugated triazine framework as a luminescent probe for p-nitroaniline and Fe3+ detection. *Polymer*, **2022**, 246, 124752	3.9	