Yabing He

List of Publications by Year in Descending Order

120 papers	9,232 citations	46 h-index	95 g-index
127 ext. papers	10,571 ext. citations	8 avg, IF	6.47 L-index

#	Paper	IF	Citations
120	Recent progress on porous MOFs for process-efficient hydrocarbon separation, luminescent sensing, and information encryption.. *Chemical Communications*, **2022**,	5.8	11
119	Improving Ethane/Ethylene Separation Performance of Isoreticular Metal-Organic Frameworks Substituent Engineering. *ACS Applied Materials & Interfaces*, **2021**, 13, 54059-54068	9.5	5
118	Lanthanide-Organic Frameworks Featuring Three-Dimensional Inorganic Connectivity for Multipurpose Hydrocarbon Separation. *Inorganic Chemistry*, **2021**, 60, 17249-17257	5.1	5
117	An Isomeric Copper-Diisophthalate Framework Platform for Storage and Purification of C2H2 and Exploration of the Positional Effect of the Methyl Group. *European Journal of Inorganic Chemistry*, **2021**, 2021, 2070-2077	2.3	3
116	Modulation of Topological Structures and Adsorption Properties of Copper-Tricarboxylate Frameworks Enabled by the Effect of the Functional Group and Its Position. *Inorganic Chemistry*, **2021**, 60, 8111-8122	5.1	2
115	Rational Construction and Performance Regulation of an In(III)-Tetraisophthalate Framework for One-Step Adsorption-Phase Purification of CH from C Hydrocarbons. *Inorganic Chemistry*, **2021**, 60, 10819-10829	5.1	9
114	Engineering ligand conformation by substituent manipulation towards diverse copper-tricarboxylate frameworks with tuned gas adsorption properties. *Dalton Transactions*, **2021**, 50, 638-646	4.3	5
113	An aromatic-rich cage-based MOF with inorganic chloride ions decorating the pore surface displaying the preferential adsorption of C2H2 and C2H6 over C2H4. *Inorganic Chemistry Frontiers*, **2021**, 8, 1243-1252	6.8	11
112	A Series of Metal-Organic Framework Isomers Based on Pyridinedicarboxylate Ligands: Diversified Selective Gas Adsorption and the Positional Effect of Methyl Functionality. *Inorganic Chemistry*, **2021**, 60, 2704-2715	5.1	9
111	Ligand Bent-Angle Engineering for Tuning Topological Structures and Acetylene Purification Performances of Copper-Diisophthalate Frameworks. *ACS Applied Materials & Interfaces*, **2021**, 13, 40788-40797	9.5	7
110	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. *Angewandte Chemie*, **2021**, 133, 23047	3.6	4
109	A Microporous MOF Constructed by Cross-Linking Helical Chains for Efficient Purification of Natural Gas and Ethylene. *Inorganic Chemistry*, **2021**, 60, 14969-14977	5.1	1
108	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. *Angewandte Chemie - International Edition*, **2021**, 60, 22865-22870	16.4	17
107	Immobilization of N-oxide functionality into NbO-type MOFs for significantly enhanced CH/CH and CO/CH separations. *Dalton Transactions*, **2020**, 49, 7174-7181	4.3	40
106	A Microporous MOF with Inorganic Nitrate Ions Immobilized on a Porous Surface Displaying Efficient C2H2 Separation and Purification. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1683-1689	2.3	12
105	A hydrostable cage-based MOF with open metal sites and Lewis basic sites immobilized in the pore surface for efficient separation and purification of natural gas and CH. *Dalton Transactions*, **2020**, 49, 3553-3561	4.3	46
104	Immobilization of Oxygen Atoms in the Pores of Microporous Metal□Organic Frameworks for C2H2 Separation and Purification. *ACS Applied Nano Materials*, **2020**, 3, 2911-2919	5.6	52

103	Two Co-based MOFs assembled from an amine-functionalized pyridinecarboxylate ligand: inorganic acid-directed structural variety and gas adsorption properties. *CrystEngComm*, **2020**, 22, 3424-3431	3.3	10
102	Construction and selective gas adsorption properties of two heteroSBU MOFs based on unsymmetrical tetracarboxylate linkers. *CrystEngComm*, **2020**, 22, 5961-5969	3.3	5
101	An -oxide-functionalized nanocage-based copper-tricarboxylate framework for the selective capture of CH. *Dalton Transactions*, **2020**, 49, 15672-15681	4.3	13
100	A ligand conformation preorganization approach to construct a copper–hexacarboxylate framework with a novel topology for selective gas adsorption. *Inorganic Chemistry Frontiers*, **2019**, 6, 263-270	6.8	36
99	Multifunctional porous hydrogen-bonded organic framework materials. *Chemical Society Reviews*, **2019**, 48, 1362-1389	58.5	358
98	Two copper-based MOFs constructed from a linear diisophthalate linker: supramolecular isomerism and gas adsorption properties. *CrystEngComm*, **2019**, 21, 3192-3198	3.3	8
97	Incorporation of bifunctional aminopyridine into an NbO-type MOF for the markedly enhanced adsorption of CO2 and C2H2 over CH4. *Inorganic Chemistry Frontiers*, **2019**, 6, 1177-1183	6.8	26
96	An amine functionalized carbazolic porous organic framework for selective adsorption of CO2 and C2H2 over CH4. *Microporous and Mesoporous Materials*, **2019**, 275, 95-101	5.3	11
95	Effect of arrangement of functional groups on stability and gas adsorption properties in two regioisomeric copper bent diisophthalate frameworks. *CrystEngComm*, **2019**, 21, 4820-4827	3.3	17
94	A lactam-functionalized copper bent diisophthalate framework displaying significantly enhanced adsorption of CO and CH over CH. *Dalton Transactions*, **2019**, 48, 11374-11381	4.3	7
93	Diiron(ii) pentacarbonyl complexes as CO-releasing molecules: their synthesis, characterization, CO-releasing behaviour and biocompatibility. *Dalton Transactions*, **2019**, 48, 468-477	4.3	13
92	Tailoring the structures and gas adsorption properties of copper–bent diisophthalate frameworks by a substituent-driven ligand conformation regulation strategy. *CrystEngComm*, **2019**, 21, 6733-6743	3.3	18
91	Rational construction and remarkable gas adsorption properties of a HKUST-1-like tbo-type MOF based on a tetraisophthalate linker. *Dalton Transactions*, **2019**, 48, 16793-16799	4.3	16
90	Three isoreticular MOFs derived from nitrogen-functionalized diisophthalate ligands: exploring the positional effect of nitrogen functional sites on the structural stabilities and selective C2H2/CH4 and CO2/CH4 adsorption properties. *Inorganic Chemistry Frontiers*, **2018**, 5, 1423-1431	6.8	18
89	Rational construction of an ssa-type of MOF through pre-organizing the ligand's conformation and its exceptional gas adsorption properties. *Dalton Transactions*, **2018**, 47, 2444-2452	4.3	27
88	A microporous metal–organic framework with commensurate adsorption and highly selective separation of xenon. *Journal of Materials Chemistry A*, **2018**, 6, 4752-4758	13	49
87	Selective adsorption of C2H2 and CO2 from CH4 in an isoreticular series of MOFs constructed from unsymmetrical diisophthalate linkers and the effect of alkoxy group functionalization on gas adsorption. *Journal of Materials Chemistry A*, **2018**, 6, 3471-3478	13	53
86	A metal-organic framework based on a custom-designed diisophthalate ligand exhibiting excellent hydrostability and highly selective adsorption of CH and CO over CH. *Dalton Transactions*, **2018**, 47, 7213-7221	4.3	22

85	Current Status of Porous Metal–Organic Frameworks for Methane Storage **2018**, 163-198		2
84	Porous metal–organic frameworks for fuel storage. *Coordination Chemistry Reviews*, **2018**, 373, 167-198	23.2	169
83	Structural diversities and gas adsorption properties of a family of rod-packing lanthanide–organic frameworks based on cyclotriphosphazene-functionalized hexacarboxylate derivatives. *Inorganic Chemistry Frontiers*, **2018**, 5, 2227-2237	6.8	31
82	Intrinsically microporous co-polyimides derived from ortho-substituted Tröger's Base diamine with a pendant tert-butyl-phenyl group and their gas separation performance. *Polymer*, **2018**, 153, 173-182	3.9	12
81	Three isoreticular ssa-type MOFs derived from bent diisophthalate ligands: exploring the substituent effect on structural stabilities and selective CH/CH and CO/CH adsorption properties. *Dalton Transactions*, **2018**, 47, 12702-12710	4.3	16
80	Three ligand-originated MOF isomers: the positional effect of the methyl group on structures and selective CH/CH and CO/CH adsorption properties. *Dalton Transactions*, **2018**, 47, 8983-8991	4.3	18
79	A pair of polymorphous metal-organic frameworks based on an angular diisophthalate linker: synthesis, characterization and gas adsorption properties. *Dalton Transactions*, **2018**, 47, 716-725	4.3	20
78	Two NbO-type MOFs based on linear and zigzag diisophthalate ligands: exploring the effect of ligand-originated MOF isomerization on gas adsorption properties. *Inorganic Chemistry Frontiers*, **2018**, 5, 2811-2817	6.8	12
77	A NbO-type MOF based on an aromatic-rich and N-functionalized diisophthalate ligand for high-performance acetylene storage and purification. *CrystEngComm*, **2018**, 20, 7178-7183	3.3	13
76	Exploring the Effect of Ligand-Originated MOF Isomerism and Methoxy Group Functionalization on Selective Acetylene/Methane and Carbon Dioxide/Methane Adsorption Properties in Two NbO-Type MOFs. *ACS Applied Materials & Interfaces*, **2018**, 10, 20559-20568	9.5	40
75	Improving the Stability and Gas Adsorption Performance of Acylamide Group Functionalized Zinc Metal–Organic Frameworks through Coordination Group Optimization. *Crystal Growth and Design*, **2017**, 17, 2584-2588	3.5	12
74	An anionic metal–organic framework constructed from a triazole-functionalized diisophthalate featuring hierarchical cages for selective adsorptive C2H2/CH4 and CO2/CH4 separation. *CrystEngComm*, **2017**, 19, 2795-2801	3.3	30
73	A porous metal-organic framework based on an asymmetric angular diisophthalate for selective adsorption of CH and CO over CH. *Dalton Transactions*, **2017**, 46, 7813-7820	4.3	23
72	A comparative study of the effect of functional groups on C2H2 adsorption in NbO-type metal–organic frameworks. *Inorganic Chemistry Frontiers*, **2017**, 4, 960-967	6.8	39
71	High-Pressure Methane Adsorption in Two Isoreticular Zr-Based Metal–Organic Frameworks Constructed from C3-Symmetrical Tricarboxylates. *Crystal Growth and Design*, **2017**, 17, 248-254	3.5	5
70	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
69	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
68	A family of ssa-type copper-based MOFs constructed from unsymmetrical diisophthalates: synthesis, characterization and selective gas adsorption. *Materials Chemistry Frontiers*, **2017**, 1, 2283-2291	7.8	27

67	A comparative study of CH adsorption properties in five isomeric copper-based MOFs based on naphthalene-derived diisophthalates. *Dalton Transactions*, **2017**, 46, 11469-11478	4.3	22
66	A rare Pb9 cluster-organic framework constructed from a flexible cyclotriphosphazene-functionalized hexacarboxylate exhibiting selective gas separation. *Inorganic Chemistry Frontiers*, **2017**, 4, 1501-1508	6.8	27
65	Alkaline earth-based coordination polymers derived from a cyclotriphosphazene-functionalized hexacarboxylate. *Journal of Solid State Chemistry*, **2016**, 242, 47-54	3.3	11
64	An aminopyrimidine-functionalized cage-based metal-organic framework exhibiting highly selective adsorption of C2H2 and CO2 over CH4. *Dalton Transactions*, **2016**, 45, 13373-82	4.3	62
63	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
62	C2H2 adsorption in three isostructural metal-organic frameworks: boosting C2H2 uptake by rational arrangement of nitrogen sites. *Dalton Transactions*, **2016**, 45, 4563-9	4.3	48
61	CO2 adsorption of three isostructural metal-organic frameworks depending on the incorporated highly polarized heterocyclic moieties. *Dalton Transactions*, **2016**, 45, 190-7	4.3	40
60	A porous lanthanide metal□organic framework based on a flexible cyclotriphosphazene-functionalized hexacarboxylate exhibiting selective gas adsorption. *CrystEngComm*, **2016**, 18, 6254-6261	3.3	43
59	Synthesis, Characterization, and Luminescence Modulation of a Metal-Organic Framework Based on a Cyclotriphosphazene-Functionalized Multicarboxylate Ligand. *ChemPlusChem*, **2016**, 81, 786-791	2.8	6
58	Lanthanide□Organic Frameworks Constructed from an Unsymmetrical Tricarboxylate for Selective Gas Adsorption and Small-Molecule Sensing. *European Journal of Inorganic Chemistry*, **2016**, 2016, 503-508	2.3	12
57	A Chemically Cross-Linked NbO-Type Metal-Organic Framework: Cage or Window Partition?. *Inorganic Chemistry*, **2016**, 55, 3974-9	5.1	37
56	High methane storage and working capacities in a NbO-type metal-organic framework. *Dalton Transactions*, **2016**, 45, 7559-62	4.3	29
55	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
54	An anionic metal□organic framework based on angular tetracarboxylic acid and a mononuclear copper ion for selective gas adsorption. *Inorganic Chemistry Frontiers*, **2016**, 3, 1411-1418	6.8	27
53	A metal□organic framework based on cyclotriphosphazene-functionalized hexacarboxylate for selective adsorption of CO2 and C2H6 over CH4 at room temperature. *CrystEngComm*, **2015**, 17, 6314-6319	3.3	18
52	Merging open metal sites and Lewis basic sites in a NbO-type metal-organic framework for improved C2H2/CH4 and CO2/CH4 separation. *Dalton Transactions*, **2015**, 44, 14823-9	4.3	36
51	A NbO-type metal-organic framework exhibiting high deliverable capacity for methane storage. *Chemical Communications*, **2015**, 51, 8508-11	5.8	77
50	The accessibility of nitrogen sites makes a difference in selective CO2 adsorption of a family of isostructural metal□organic frameworks. *Journal of Materials Chemistry A*, **2015**, 3, 19417-19426	13	71

49	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
48	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	
47	Synthesis and excellent electromagnetic absorbing properties of copolymer (N-methylpyrrole-co-pyrrole) and Ba□Nd□Cr ferrite. *Journal of Alloys and Compounds*, **2015**, 632, 490-499	5.7	19
46	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
45	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
44	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
43	A highly porous NbO type metal-organic framework constructed from an expanded tetracarboxylate. *Chemical Communications*, **2014**, 50, 1552-4	5.8	42
42	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
41	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
40	A new MOF-5 homologue for selective separation of methane from C2 hydrocarbons at room temperature. *APL Materials*, **2014**, 2, 124102	5.7	27
39	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
38	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
37	Multifunctional metal-organic frameworks constructed from meta-benzenedicarboxylate units. *Chemical Society Reviews*, **2014**, 43, 5618-56	58.5	431
36	Methane storage in metal-organic frameworks. *Chemical Society Reviews*, **2014**, 43, 5657-78	58.5	1246
35	Highly selective separation of small hydrocarbons and carbon dioxide in a metal□organic framework with open copper(II) coordination sites. *RSC Advances*, **2014**, 4, 23058	3.7	31
34	Metal□Organic Frameworks: Frameworks Containing Open Sites **2014**, 1-23		1
33	Preparation and Electromagnetic Properties of the Co0.6Cu0.16Ni0.24Fe2O4/Multi-Walled Carbon Nanotube/Polypyrrole Composites. *Science of Advanced Materials*, **2014**, 6, 298-303	2.3	5
32	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

31	A mesoporous lanthanide–organic framework constructed from a dendritic hexacarboxylate with cages of 2.4 nm. *CrystEngComm*, **2013**, 15, 9328	3.3	33
30	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
29	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
28	Metastable interwoven mesoporous metal-organic frameworks. *Inorganic Chemistry*, **2013**, 52, 11580-4	5.1	59
27	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
26	A microporous metal–organic framework assembled from an aromatic tetracarboxylate for H2 purification. *Journal of Materials Chemistry A*, **2013**, 1, 2543	13	59
25	A microporous metal–organic 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
24	A photoluminescent microporous metal organic anionic framework for nitroaromatic explosive sensing. *Journal of Materials Chemistry A*, **2013**, 1, 4525	13	113
23	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
22	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
21	Metal–Organic Framework with Functional Amide Groups for Highly Selective Gas Separation. *Crystal Growth and Design*, **2013**, 13, 2670-2674	3.5	61
20	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
19	Expanded organic building units for the construction of highly porous metal-organic frameworks. *Chemistry - A European Journal*, **2013**, 19, 14886-94	4.8	60
18	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
17	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
16	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
15	A microporous lanthanide-tricarboxylate framework with the potential for purification of natural gas. *Chemical Communications*, **2012**, 48, 10856-8	5.8	120
14	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. *Nature Communications*, **2012**, 3, 954	17.4	615

13	Microporous metal-organic frameworks for storage and separation of small hydrocarbons. *Chemical Communications*, **2012**, 48, 11813-31	5.8	278
12	Metal–organic frameworks with potential for energy-efficient adsorptive separation of light hydrocarbons. *Energy and Environmental Science*, **2012**, 5, 9107	35.4	517
11	Interplay of metalloligand and organic ligand to tune micropores within isostructural mixed-metal organic frameworks (MTMOFs) for their highly selective separation of chiral and achiral small molecules. *Journal of the American Chemical Society*, **2012**, 134, 8703-10	16.4	296
10	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
9	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
8	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
7	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
6	Self-discriminating and hierarchical assembly of racemic binaphthyl-bisbipyridines and silver ions: from metallocycles to gel nanofibers. *Chemical Communications*, **2011**, 47, 1589-91	5.8	33
5	An organogel formed from a cyclic β-aminoalcohol. *Chemical Communications*, **2011**, 47, 10746-8	5.8	10
4	Stereoselective and hierarchical self-assembly from nanotubular homochiral helical coordination polymers to supramolecular gels. *Chemical Communications*, **2010**, 46, 5695-7	5.8	27
3	Chiral binaphthylbisbipyridine-based copper(I) coordination polymer gels as supramolecular catalysts. *Chemical Communications*, **2010**, 46, 3532-4	5.8	53
2	Novel C3-symmetrical triphenylbenzene-based organogelators with different linkers between phenyl ring and alkyl chain. *Tetrahedron*, **2010**, 66, 3553-3563	2.4	24
1	Ultrasound-promoted chiral fluorescent organogel. *New Journal of Chemistry*, **2009**, 33, 2073	3.6	27