

# Weidong Fan

## List of Publications by Citations

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56

papers

1,454

citations

21

h-index

37

g-index

62

ext. papers

2,181

ext. citations

8.7

avg, IF

5.08

L-index

#	Paper	IF	Citations
56	Optimizing Multivariate Metal-Organic Frameworks for Efficient CH <sub>4</sub> /CO Separation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 8728-8737	16.4	129
55	Amino-functionalized MOFs with high physicochemical stability for efficient gas storage/separation, dye adsorption and catalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24486-24495	13	100
54	Topology Exploration in Highly Connected Rare-Earth Metal-Organic Frameworks via Continuous Hindrance Control. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 6967-6975	16.4	96
53	Metal-Organic Frameworks: Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization (Adv. Sci. 23/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970141	13.6	78
52	Multifunctional lanthanide-organic frameworks for fluorescent sensing, gas separation and catalysis. <i>Dalton Transactions</i> , <b>2016</b> , 45, 3743-9	4.3	73
51	Regulating C <sub>2</sub> H <sub>2</sub> and CO <sub>2</sub> Storage and Separation through Pore Environment Modification in a Microporous Ni-MOF. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2134-2140	8.3	69
50	Fine-Tuning the Pore Environment of the Microporous Cu-MOF for High Propylene Storage and Efficient Separation of Light Hydrocarbons. <i>ACS Central Science</i> , <b>2019</b> , 5, 1261-1268	16.8	65
49	Isorecticular chemistry within metal-organic frameworks for gas storage and separation. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 443, 213968	23.2	59
48	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18927-18932	16.4	56
47	An Amino-Functionalized Metal-Organic Framework, Based on a Rare Ba (COO) (NO <sub>3</sub> ) Cluster, for Efficient C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> Separation and Preferential Catalytic Performance. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2137-2143	4.8	49
46	Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3840-3845	16.4	48
45	A fluorine-functionalized microporous In-MOF with high physicochemical stability for light hydrocarbon storage and separation. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2445-2449	6.8	41
44	Efficient dye nanofiltration of a graphene oxide membrane via combination with a covalent organic framework by hot pressing. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24301-24310	13	41
43	Cooperative Sieving and Functionalization of Zr Metal-Organic Frameworks through Insertion and Post-Modification of Auxiliary Linkers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22390-22397	9.5	35
42	Expanded Porous Metal-Organic Frameworks by SCSC: Organic Building Units Modifying and Enhanced Gas-Adsorption Properties. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 6420-5	5.1	31
41	Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16682-16690	16.4	29
40	Two-dimensional cobalt metal-organic frameworks for efficient C <sub>3</sub> H <sub>6</sub> /CH <sub>4</sub> and C <sub>3</sub> H <sub>8</sub> /CH <sub>4</sub> hydrocarbon separation. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 865-868	8.1	27

39	Effect of Functional Groups on the Adsorption of Light Hydrocarbons in fmj-type Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 832-838	3.5	25
38	One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11350-11358	16.4	24
37	Solvent-induced terbium metal-organic frameworks for highly selective detection of manganese(ii) ions. <i>Dalton Transactions</i> , <b>2019</b> , 48, 2569-2573	4.3	23
36	A Stable Amino-Functionalized Interpenetrated Metal-Organic Framework Exhibiting Gas Selectivity and Pore-Size-Dependent Catalytic Performance. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13634-13637	5.1	22
35	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19089-19094	3.6	21
34	Multivariate Polycrystalline Metal-Organic Framework Membranes for CO/CH Separation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17716-17723	16.4	20
33	Amino-functionalized Cu-MOF for efficient purification of methane from light hydrocarbons and excellent catalytic performance. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1152-1157	6.8	19
32	Solvent-induced framework-interpenetration isomers of Cu MOFs for efficient light hydrocarbon separation. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2408-2412	6.8	19
31	A multifunctional Zr-MOF for the rapid removal of Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> efficient gas adsorption/separation, and catalytic performance. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1150-1157	7.8	19
30	Metal-Organic Framework Based Gas Sensors.. <i>Advanced Science</i> , <b>2021</b> , e2104374	13.6	18
29	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>4</sub> /CO Separations. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17338-17343	16.4	17
28	Accurate tuning of rare earth metal-organic frameworks with unprecedented topology for white-light emission. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1374-1379	7.1	16
27	Metal-organic framework derived porous hollow ternary sulfide as robust anode material for sodium ion batteries. <i>Materials Today Energy</i> , <b>2019</b> , 12, 53-61	7	16
26	A Stable Interpenetrated Zn-MOF with Efficient Light Hydrocarbon Adsorption/Separation Performance. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 5670-5675	3.5	15
25	Two alkynyl functionalized Co(II)-MOFs as fluorescent sensors exhibiting selectivity and sensitivity for Fe <sup>3+</sup> and nitroaromatic compounds. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1440-1444	8.1	14
24	Pore-Environment Engineering in Multifunctional Metal-Organic Frameworks. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 509-524	4.9	14
23	Engineering the pore environment of metal-organic framework membranes via modification of the secondary building unit for improved gas separation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13132-13141	13.1	13
22	Fe/N-doped carbon nanofibers with Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> C nanocrystals enched as electrocatalysts for efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2296-2303	6.8	13

21	Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization. <i>Advanced Science</i> , <b>2019</b> , 6, 1901855	13.6	13
20	Polycrystalline zeolite and metal-organic framework membranes for molecular separations. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 437, 213794	23.2	13
19	Fabrication of (4, 10) and (4, 12)-Connected Multifunctional Zirconium Metal-Organic Frameworks for the Targeted Adsorption of a Guest Molecule. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 695-704	5.1	12
18	Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3868-3873	3.6	9
17	Ligand controlled structure of cadmium(II) metal-organic frameworks for fluorescence sensing of Fe <sup>3+</sup> ion and nitroaromatic compounds. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 801-805	8.1	9
16	Four novel Co(II) metal-organic frameworks based on semi-rigid ligand and their secondary building units transformation. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1197, 87-95	3.4	5
15	On-Chip Template-Directed Conversion of Metal Hydroxides to Metal-Organic Framework Films with Enhanced Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36715-36722	9.5	5
14	Optimizing Fe-Based Metal-Organic Frameworks through Ligand Conformation Regulation for Efficient Dye Adsorption and CH <sub>4</sub> /CO Separation. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 10693-10699	4.8	5
13	Synthesis, structures, and fluorescent properties of four new calcium(II) metal-organic frameworks. <i>Polyhedron</i> , <b>2018</b> , 155, 261-267	2.7	4
12	Optimizing zirconium metal-organic frameworks through steric tuning for efficient removal of CrO <sub>4</sub> <sup>2-</sup> . <i>Chemical Communications</i> , <b>2020</b> , 56, 10513-10516	5.8	4
11	Interfacial polymerization of MOF monomers to fabricate flexible and thin membranes for molecular separation with ultrafast water transport. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17528-17537	13.7	4
10	Metal-organic framework templated Pd/CeO <sub>2</sub> @N-doped carbon for low-temperature CO oxidation. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 755-762	5.1	3
9	Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16835-16843	3.6	3
8	One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11451-11459	3.6	2
7	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separations. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 17478-17483	3.6	2
6	Polycrystalline Iron(III) metal-organic framework membranes for organic solvent nanofiltration with high permeance. <i>Journal of Membrane Science</i> , <b>2022</b> , 644, 120130	9.6	1
5	Tunable rare-earth metal-organic frameworks for ultra-high selenite capture.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 436, 129094	12.8	1
4	Modification of Metal-Organic Frameworks for CO <sub>2</sub> Capture. <i>ACS Symposium Series</i> , 269-308	0.4	1

- 3 Innentitelbild: Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation (Angew. Chem. 10/2020). *Angewandte Chemie*, **2020**, 132, 3778-3778 3.6
- 2 Titelbild: Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites (Angew. Chem. 43/2020). *Angewandte Chemie*, **2020**, 132, 18981-18981 3.6
- 1 Rücktitelbild: One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks (Angew. Chem. 20/2021). *Angewandte Chemie*, **2021**, 133, 11636-11636 3.6