

Weidong Fan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Polycrystalline Iron(III) metal-organic framework membranes for organic solvent nanofiltration with high permeance. <i>Journal of Membrane Science</i> , 2022 , 644, 120130	9.6	1
55	Tunable rare-earth metal-organic frameworks for ultra-high selenite capture.. <i>Journal of Hazardous Materials</i> , 2022 , 436, 129094	12.8	1
54	Multivariate Polycrystalline Metal-Organic Framework Membranes for CO/CH Separation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17716-17723	16.4	20
53	One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2021 , 133, 11451-11459	3.6	2
52	Übersicht: One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks (Angew. Chem. 20/2021). <i>Angewandte Chemie</i> , 2021 , 133, 11636-11636	3.6	
51	Optimizing Fe-Based Metal-Organic Frameworks through Ligand Conformation Regulation for Efficient Dye Adsorption and C H /CO Separation. <i>Chemistry - A European Journal</i> , 2021 , 27, 10693-10699	4.8	5
50	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ Separations. <i>Angewandte Chemie</i> , 2021 , 133, 17478-17483	3.6	2
49	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C H /C H and C H /CO Separations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17338-17343	16.4	17
48	Polycrystalline zeolite and metal-organic framework membranes for molecular separations. <i>Coordination Chemistry Reviews</i> , 2021 , 437, 213794	23.2	13
47	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> , 2021 , 9, 17528-17537	13.7	4
46	One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11350-11358	16.4	24
45	Isorecticular chemistry within metal-organic frameworks for gas storage and separation. <i>Coordination Chemistry Reviews</i> , 2021 , 443, 213968	23.2	59
44	Metal-Organic Framework Based Gas Sensors.. <i>Advanced Science</i> , 2021 , e2104374	13.6	18
43	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> , 2020 , 8, 13132-13141	13.1	13
42	Optimizing Multivariate Metal-Organic Frameworks for Efficient CH/CO Separation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8728-8737	16.4	129
41	Metal-organic framework templated Pd/CeO ₂ @N-doped carbon for low-temperature CO oxidation. <i>Nanoscale Advances</i> , 2020 , 2, 755-762	5.1	3
40	Innentitelbild: Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation (Angew. Chem. 10/2020). <i>Angewandte Chemie</i> , 2020 , 132, 3778-3778	3.6	

39	Pore-Environment Engineering in Multifunctional Metal-Organic Frameworks. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 509-524	4.9	14
38	Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation. <i>Angewandte Chemie</i> , 2020 , 132, 3868-3873	3.6	9
37	A multifunctional Zr-MOF for the rapid removal of Cr ₂ O ₇ ²⁻ efficient gas adsorption/separation, and catalytic performance. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1150-1157	7.8	19
36	Accurate tuning of rare earth metal-organic frameworks with unprecedented topology for white-light emission. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1374-1379	7.1	16
35	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> , 2020 , 59, 695-704	5.1	12
34	Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3840-3845	16.4	48
33	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). <i>Angewandte Chemie</i> , 2020 , 132, 18981-18981	3.6	
32	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> , 2020 , 59, 18927-18932	16.4	56
31	A Stable Interpenetrated Zn-MOF with Efficient Light Hydrocarbon Adsorption/Separation Performance. <i>Crystal Growth and Design</i> , 2020 , 20, 5670-5675	3.5	15
30	On-Chip Template-Directed Conversion of Metal Hydroxides to Metal-Organic Framework Films with Enhanced Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36715-36722	9.5	5
29	Optimizing zirconium metal-organic frameworks through steric tuning for efficient removal of CrO. <i>Chemical Communications</i> , 2020 , 56, 10513-10516	5.8	4
28	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> , 2020 , 132, 19089-19094	3.6	21
27	Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16682-16690	16.4	29
26	Solvent-induced terbium metal-organic frameworks for highly selective detection of manganese(II) ions. <i>Dalton Transactions</i> , 2019 , 48, 2569-2573	4.3	23
25	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> , 2019 , 5, 1261-1268	16.8	65
24	Cooperative Sieving and Functionalization of Zr Metal-Organic Frameworks through Insertion and Post-Modification of Auxiliary Linkers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22390-22397	9.5	35
23	Two alkynyl functionalized Co(II)-MOFs as fluorescent sensors exhibiting selectivity and sensitivity for Fe ³⁺ and nitroaromatic compounds. <i>Chinese Chemical Letters</i> , 2019 , 30, 1440-1444	8.1	14
22	Amino-functionalized Cu-MOF for efficient purification of methane from light hydrocarbons and excellent catalytic performance. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1152-1157	6.8	19

21	Topology Exploration in Highly Connected Rare-Earth Metal-Organic Frameworks via Continuous Hindrance Control. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6967-6975	16.4	96
20	Fe/N-doped carbon nanofibers with Fe ₃ O ₄ /Fe ₂ C nanocrystals enmeshed as electrocatalysts for efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2296-2303	6.8	13
19	Four novel Co(II) metal-organic frameworks based on semi-rigid ligand and their secondary building units transformation. <i>Journal of Molecular Structure</i> , 2019 , 1197, 87-95	3.4	5
18	Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019 , 131, 16835-16843	3.6	3
17	Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization. <i>Advanced Science</i> , 2019 , 6, 1901855	13.6	13
16	Metal-Organic Frameworks: Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization (Adv. Sci. 23/2019). <i>Advanced Science</i> , 2019 , 6, 1970141	13.6	78
15	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> , 2019 , 7, 24301-24310	13	41
14	Ligand controlled structure of cadmium(II) metal-organic frameworks for fluorescence sensing of Fe ³⁺ ion and nitroaromatic compounds. <i>Chinese Chemical Letters</i> , 2019 , 30, 801-805	8.1	9
13	Regulating C ₂ H ₂ and CO ₂ Storage and Separation through Pore Environment Modification in a Microporous Ni-MOF. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2134-2140	8.3	69
12	Effect of Functional Groups on the Adsorption of Light Hydrocarbons in fmj-type Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2019 , 19, 832-838	3.5	25
11	Metal-Organic framework derived porous hollow ternary sulfide as robust anode material for sodium ion batteries. <i>Materials Today Energy</i> , 2019 , 12, 53-61	7	16
10	Two-dimensional cobalt metal-organic frameworks for efficient C ₃ H ₆ /CH ₄ and C ₃ H ₈ /CH ₄ hydrocarbon separation. <i>Chinese Chemical Letters</i> , 2018 , 29, 865-868	8.1	27
9	An Amino-Functionalized Metal-Organic Framework, Based on a Rare Ba (COO) (NO ₂) Cluster, for Efficient C ₂ H ₂ /C ₂ H ₄ Separation and Preferential Catalytic Performance. <i>Chemistry - A European Journal</i> , 2018 , 24, 2137-2143	4.8	49
8	Solvent-induced framework-interpenetration isomers of Cu MOFs for efficient light hydrocarbon separation. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2408-2412	6.8	19
7	Synthesis, structures, and fluorescent properties of four new calcium(II) metal-organic frameworks. <i>Polyhedron</i> , 2018 , 155, 261-267	2.7	4
6	A fluorine-functionalized microporous In-MOF with high physicochemical stability for light hydrocarbon storage and separation. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2445-2449	6.8	41
5	Amino-functionalized MOFs with high physicochemical stability for efficient gas storage/separation, dye adsorption and catalytic performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24486-24495	13	100
4	A Stable Amino-Functionalized Interpenetrated Metal-Organic Framework Exhibiting Gas Selectivity and Pore-Size-Dependent Catalytic Performance. <i>Inorganic Chemistry</i> , 2017 , 56, 13634-13637 ^{5.1}	5.1	22

3	Expanded Porous Metal-Organic Frameworks by SCSC: Organic Building Units Modifying and Enhanced Gas-Adsorption Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 6420-5	5.1	31
2	Multifunctional lanthanide-organic frameworks for fluorescent sensing, gas separation and catalysis. <i>Dalton Transactions</i> , 2016 , 45, 3743-9	4.3	73
1	Modification of Metal-Organic Frameworks for CO ₂ Capture. <i>ACS Symposium Series</i> , 269-308	0.4	1