

Weidong Fan

List of Publications by Year in descending order

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59
papers

2,885
citations

201385

27
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174990

52
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all docs

62
docs citations

62
times ranked

2111
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing Multivariate Metal-Organic Frameworks for Efficient C ₂ H ₂ /CO ₂ Separation. Journal of the American Chemical Society, 2020, 142, 8728-8737.	6.6	289
2	Isorecticular chemistry within metal-organic frameworks for gas storage and separation. Coordination Chemistry Reviews, 2021, 443, 213968.	9.5	246
3	Amino-functionalized MOFs with high physicochemical stability for efficient gas storage/separation, dye adsorption and catalytic performance. Journal of Materials Chemistry A, 2018, 6, 24486-24495.	5.2	159
4	Metal-Organic Framework Based Gas Sensors. Advanced Science, 2022, 9, e2104374.	5.6	142
5	Fine-Tuning the Pore Environment of the Microporous Cu-MOF for High Propylene Storage and Efficient Separation of Light Hydrocarbons. ACS Central Science, 2019, 5, 1261-1268.	5.3	128
6	Topology Exploration in Highly Connected Rare-Earth Metal-Organic Frameworks via Continuous Hindrance Control. Journal of the American Chemical Society, 2019, 141, 6967-6975.	6.6	125
7	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metal-Organic Framework: Synergistic Effect of High-Density Open Metal and Electronegative Sites. Angewandte Chemie - International Edition, 2020, 59, 18927-18932.	7.2	121
8	One-step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobalt-Functionalized Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 11350-11358.	7.2	118
9	Regulating C ₂ H ₂ and CO ₂ Storage and Separation through Pore Environment Modification in a Microporous Ni-MOF. ACS Sustainable Chemistry and Engineering, 2019, 7, 2134-2140.	3.2	113
10	Fabrication of a Hydrogen-Bonded Organic Framework Membrane through Solution Processing for Pressure-Regulated Gas Separation. Angewandte Chemie - International Edition, 2020, 59, 3840-3845.	7.2	109
11	Multivariate Polycrystalline Metal-Organic Framework Membranes for CO ₂ /CH ₄ Separation. Journal of the American Chemical Society, 2021, 143, 17716-17723.	6.6	99
12	Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ Separations. Angewandte Chemie - International Edition, 2021, 60, 17338-17343.	7.2	93
13	Multifunctional lanthanide-organic frameworks for fluorescent sensing, gas separation and catalysis. Dalton Transactions, 2016, 45, 3743-3749.	1.6	74
14	Efficient dye nanofiltration of a graphene oxide membrane <i>via</i> combination with a covalent organic framework by hot pressing. Journal of Materials Chemistry A, 2019, 7, 24301-24310.	5.2	72
15	Flexible metal-organic frameworks for gas storage and separation. Dalton Transactions, 2022, 51, 4608-4618.	1.6	66
16	An Amino-Functionalized Metal-Organic Framework, Based on a Rare Ba ₁₂ (COO) ₁₈ (NO ₃) ₃ Cluster, for Efficient C ₃ /C ₂ /C ₁ Separation and Preferential Catalytic Performance. Chemistry - A European Journal, 2018, 24, 2137-2143.	1.7	61
17	Cooperative Sieving and Functionalization of Zr Metal-Organic Frameworks through Insertion and Post-Modification of Auxiliary Linkers. ACS Applied Materials & Interfaces, 2019, 11, 22390-22397.	4.0	60
18	A fluorine-functionalized microporous In-MOF with high physicochemical stability for light hydrocarbon storage and separation. Inorganic Chemistry Frontiers, 2018, 5, 2445-2449.	3.0	59

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19	Polycrystalline zeolite and metal-organic framework membranes for molecular separations. <i>Coordination Chemistry Reviews</i> , 2021, 437, 213794.	9.5	52
20	Molecular Pivotâ€Hinge Installation to Evolve Topology in Rareâ€Earth Metalâ€Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16682-16690.	7.2	45
21	Efficient Trapping of Trace Acetylene from Ethylene in an Ultramicroporous Metalâ€Organic Framework: Synergistic Effect of Highâ€Density Open Metal and Electronegative Sites. <i>Angewandte Chemie</i> , 2020, 132, 19089-19094.	1.6	43
22	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.	4.8	38
23	A Stable Amino-Functionalized Interpenetrated Metalâ€Organic Framework Exhibiting Gas Selectivity and Pore-Size-Dependent Catalytic Performance. <i>Inorganic Chemistry</i> , 2017, 56, 13634-13637.	1.9	34
24	Expanded Porous Metalâ€Organic Frameworks by SCSC: Organic Building Units Modifying and Enhanced Gas-Adsorption Properties. <i>Inorganic Chemistry</i> , 2016, 55, 6420-6425.	1.9	33
25	Effect of Functional Groups on the Adsorption of Light Hydrocarbons in <i>fmj</i> -type Metalâ€Organic Frameworks. <i>Crystal Growth and Design</i> , 2019, 19, 832-838.	1.4	33
26	Engineering the pore environment of metalâ€organic framework membranes <i>via</i> modification of the secondary building unit for improved gas separation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13132-13141.	5.2	32
27	A Stable Interpenetrated Zn-MOF with Efficient Light Hydrocarbon Adsorption/Separation Performance. <i>Crystal Growth and Design</i> , 2020, 20, 5670-5675.	1.4	29
28	<i>Poreâ€Environment</i> Engineering in Multifunctional <i>Metalâ€Organic</i> Frameworks. <i>Chinese Journal of Chemistry</i> , 2020, 38, 509-524.	2.6	28
29	Solvent-induced framework-interpenetration isomers of Cu MOFs for efficient light hydrocarbon separation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2408-2412.	3.0	27
30	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.	3.2	27
31	Accurate tuning of rare earth metalâ€organic frameworks with unprecedented topology for white-light emission. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1374-1379.	2.7	26
32	Solvent-induced terbium metalâ€organic frameworks for highly selective detection of manganese(<i>ii</i>) ions. <i>Dalton Transactions</i> , 2019, 48, 2569-2573.	1.6	25
33	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.	3.0	25
34	Metalâ€organic framework derived porous hollow ternary sulfide as robust anode material for sodium ion batteries. <i>Materials Today Energy</i> , 2019, 12, 53-61.	2.5	23
35	Oneâ€step Ethylene Purification from an Acetylene/Ethylene/Ethane Ternary Mixture by Cyclopentadiene Cobaltâ€Functionalized Metalâ€Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 11451-11459.	1.6	21
36	Fabrication of a Hydrogenâ€Bonded Organic Framework Membrane through Solution Processing for Pressureâ€Regulated Gas Separation. <i>Angewandte Chemie</i> , 2020, 132, 3868-3873.	1.6	20

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37	Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization. <i>Advanced Science</i> , 2019, 6, 1901855.	5.6	19
38	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.	4.8	19
39	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.	4.8	19
40	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.	5.2	16
41	Polycrystalline Iron(III) metal-organic framework membranes for organic solvent nanofiltration with high permeance. <i>Journal of Membrane Science</i> , 2022, 644, 120130.	4.1	16
42	Fe/N-doped carbon nanofibers with Fe ₃ O ₄ /Fe ₂ C nanocrystals enched as electrocatalysts for efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2296-2303.	3.0	15
43	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.	1.9	15
44	Optimizing Fe-Based Metal-Organic Frameworks through Ligand Conformation Regulation for Efficient Dye Adsorption and C ₂ H ₂ /CO ₂ Separation. <i>Chemistry - A European Journal</i> , 2021, 27, 10693-10699.	1.7	13
45	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.	4.0	11
46	Tunable rare-earth metal-organic frameworks for ultra-high selenite capture. <i>Journal of Hazardous Materials</i> , 2022, 436, 129094.	6.5	11
47	Optimizing zirconium metal-organic frameworks through steric tuning for efficient removal of Cr ₂ O ₇ ²⁻ . <i>Chemical Communications</i> , 2020, 56, 10513-10516.	2.2	8
48	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.	1.8	7
49	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.	1.6	6
50	Synthesis, structures, and fluorescent properties of four new calcium(II) metal-organic frameworks. <i>Polyhedron</i> , 2018, 155, 261-267.	1.0	5
51	Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 16835-16843.	1.6	4
52	Metal-organic framework templated Pd/CeO ₂ @N-doped carbon for low-temperature CO oxidation. <i>Nanoscale Advances</i> , 2020, 2, 755-762.	2.2	3
53	Modification of Metal-Organic Frameworks for CO ₂ Capture. <i>ACS Symposium Series</i> , 0, , 269-308.	0.5	2
54	Frontispiece: 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 - International Edition</i> , 2021, 60, .	7.2	1

#	ARTICLE	IF	CITATIONS
55	Metal-Organic Frameworks: Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization (Adv. Sci. 23/2019). Advanced Science, 2019, 6, 1970141.	5.6	0
56	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.) Tj ETQq0 0 0gBT /Overlock 10 T	1.6	0
57	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.	1.6	0
58	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.	1.6	0
59	Frontispiz: Tetrazole-Functionalized Zirconium Metal-Organic Cages for Efficient C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ Separations. Angewandte Chemie, 2021, 133, .	1.6	0