

# Fangna Dai

## 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.

66

papers

2,366

citations

25

h-index

48

g-index

72

ext. papers

2,976

ext. citations

7.5

avg, IF

5.14

L-index

#	Paper	IF	Citations
66	From layered structure to 8-fold interpenetrated MOF with enhanced selective adsorption of C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /CH <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , <b>2022</b> , 307, 122881	3.3	1
65	Cd-MOF: specific adsorption selectivity for linear alkyne (propyne, 2-butyne and phenylacetylene) molecules. <i>Chemical Communications</i> , <b>2021</b> , 57, 13325-13328	5.8	
64	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
63	Reaktion: 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> , <b>2021</b> , 133, 11636-11636	3.6	
62	Interfacial Mo-N-C Bond Endowed Hydrogen Evolution Reaction on MoSe@N-Doped Carbon Hollow Nanoflowers. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12377-12385	5.1	2
61	Substoichiometric 3D Covalent Organic Frameworks Based on Hexagonal Linkers. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10243-10249	16.4	15
60	A 3D Ba-MOF for selective adsorption of CO <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /N <sub>2</sub> . <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 11698-11724	16.4	4
59	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
58	2D coordination polymer-derived CoSe-NiSe/CN nanosheets: the dual-phase synergistic effect and ultrathin structure to enhance the hydrogen evolution reaction. <i>Dalton Transactions</i> , <b>2021</b> , 50, 9934-9943	4.3	0
57	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
56	A phthalocyanine sensor array based on sensitivity and current changes for highly sensitive identification of three toxic gases at ppb levels. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 13240-13248	3.6	4
55	Selective selenization of mixed-linker Ni-MOFs: NiSe <sub>2</sub> @NC core-shell nano-octahedrons with tunable interfacial electronic structure for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118976	21.8	60
54	Atomically thin defect-rich Ni-Se-S hybrid nanosheets as hydrogen evolution reaction electrocatalysts. <i>Nano Research</i> , <b>2020</b> , 13, 2056-2062	10	24
53	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
52	Accurately Regulating the Electronic Structure of Ni Se @NC Core-Shell Nanohybrids through Controllable Selenization of a Ni-MOF for pH-Universal Hydrogen Evolution Reaction. <i>Small</i> , <b>2020</b> , 16, e2004231	11	23
51	Micelles of Mesoporous Silica with Inserted Iron Complexes as a Platform for Constructing Efficient Electrocatalysts for Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54720-54731	9.5	9
50	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

49	Two series of Ln-MOFs by solvent induced self-assembly demonstrating the rapid selective sensing of Mg and Fe cations. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15473-15480	4.3	12
48	Sequential Solid-State Transformations Involving Consecutive Rearrangements of Secondary Building Units in a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22372	16.4	8
47	Sequential Solid-State Transformations Involving Consecutive Rearrangements of Secondary Building Units in a Metal-Organic Framework (MOF). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22558-22563	3.6	0
46	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
45	Hierarchical Self-Assembly of Tetrakis(1-pyrenyl)porphyrins into Microscopic Petals and Flowers with Ultrasensitive Room-Temperature NO <sub>2</sub> Sensing in a Broad Humidity Range. <i>ChemNanoMat</i> , <b>2019</b> , 5, 1408-1417	3.5	2
44	Defect-Rich Porous CoS <sub>1.097</sub> /MoS <sub>2</sub> Hybrid Microspheres as Electrocatalysts for pH-Universal Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7504-7511	6.1	15
43	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
42	Ethylenediamine-Catalyzed Preparation of Nitrogen-Doped Hierarchically Porous Carbon Aerogel under Hypersaline Condition for High-Performance Supercapacitors and Organic Solvent Absorbents. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	4
41	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
40	Controlled Hydrolysis of Metal-Organic Frameworks: Hierarchical Ni/Co-Layered Double Hydroxide Microspheres for High-Performance Supercapacitors. <i>ACS Nano</i> , <b>2019</b> , 13, 7024-7030	16.7	190
39	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
38	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
37	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
36	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
35	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
34	A sulfonated cobalt phthalocyanine/carbon nanotube hybrid as a bifunctional oxygen electrocatalyst. <i>Dalton Transactions</i> , <b>2019</b> , 48, 17258-17265	4.3	17
33	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
32	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

31	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
30	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
29	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
28	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
27	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
26	A MOF-derived coral-like NiSe@NC nanohybrid: an efficient electrocatalyst for the hydrogen evolution reaction at all pH values. <i>Nanoscale</i> , <b>2018</b> , 10, 22758-22765	7.7	65
25	Comparison of two water oxidation electrocatalysts by copper or zinc supermolecule complexes based on porphyrin ligand.. <i>RSC Advances</i> , <b>2018</b> , 8, 40054-40059	3.7	6
24	A non-interpenetrating lead-organic framework with large channels based on 1D tube-shaped SBUs. <i>Chemical Communications</i> , <b>2017</b> , 53, 5694-5697	5.8	24
23	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
22	Unprecedented Solvent-Dependent Sensitivities in Highly Efficient Detection of Metal Ions and Nitroaromatic Compounds by a Fluorescent Barium Metal-Organic Framework. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 1782-7	5.1	76
21	A lead-porphyrin metal-organic framework: gas adsorption properties and electrocatalytic activity for water oxidation. <i>Dalton Transactions</i> , <b>2016</b> , 45, 61-5	4.3	65
20	Tuning the Dimensionality of Interpenetration in a Pair of Framework-Catenation Isomers To Achieve Selective Adsorption of CO <sub>2</sub> and Fluorescent Sensing of Metal Ions. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 6084-6	5.1	21
19	A multifunctional Eu MOF as a fluorescent pH sensor and exhibiting highly solvent-dependent adsorption and degradation of rhodamine B. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24016-24021	13	138
18	Porous zirconium metal-organic framework constructed from 2D -3D interpenetration based on a 3,6-connected kgd net. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 7086-8	5.1	103
17	Conformation variation of tris(2-carboxyethyl)isocyanuric acid induced by cocrystallized N-heterocyclic organic molecules. <i>CrystEngComm</i> , <b>2012</b> , 14, 1376-1381	3.3	10
16	Reaction vessel- and concentration-induced supramolecular isomerism in layered lanthanide-organic frameworks. <i>CrystEngComm</i> , <b>2011</b> , 13, 6968	3.3	16
15	Three 3D Lanthanide-Organic Frameworks Based on Novel Flexible Multicarboxylates: From ssa to rtl Topologies. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 5670-5675	3.5	37
14	Dimerization of a Metal Complex through Thermally Induced Single-Crystal-to-Single-Crystal Transformation or Mechanochemical Reaction. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7199-7202	3.6	14

13	Dimerization of a metal complex through thermally induced single-crystal-to-single-crystal transformation or mechanochemical reaction. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7061-4	16.4	87
12	1D zigzag chain vs. 1D helical chain: the role of the supramolecular interactions on the formation of chiral architecture. <i>CrystEngComm</i> , <b>2010</b> , 12, 337-340	3.3	35
11	Self-assembly of metal-organic supramolecules: from a metallamacrocycle and a metal-organic coordination cage to 1D or 2D coordination polymers based on flexible dicarboxylate ligands. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 4117-24	5.1	81
10	A new Cu(I) coordination polymer with the CdSO <sub>4</sub> structure type prepared via biphasic solvothermal reaction. <i>CrystEngComm</i> , <b>2010</b> , 12, 2018	3.3	12
9	The effect of the conformation of flexible carboxylate ligands on the structures of metal-organic supramolecules. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 2496	3.6	15
8	Polymorphism in high-crystalline-stability metal-organic nanotubes. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 4613-5	5.1	53
7	Self-assembly of a novel metal-organic coordination cage (MOCC) based on a new flexible dicarboxylate ligand: synthesis, crystal structure and magnetic property. <i>CrystEngComm</i> , <b>2009</b> , 11, 47-49	3.3	11
6	Construction of copper metal-organic systems based on paddlewheel SBU through altering the substituent positions of new flexible carboxylate ligands. <i>CrystEngComm</i> , <b>2009</b> , 11, 2516	3.3	39
5	Three novel 3D metal-organic frameworks with a 1D ladder, tube or chain as assembly units. <i>CrystEngComm</i> , <b>2008</b> , 10, 1429	3.3	23
4	A metal-organic nanotube exhibiting reversible adsorption of (H <sub>2</sub> O) <sub>12</sub> cluster. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14064-5	16.4	192
3	Ultrahigh Hydrogen Uptake in an Interpenetrated Zn <sub>4</sub> O-Based Metal-Organic Framework. <i>CCS Chemistry</i> , 1005-1011	7.2	1
2	Recent advances in metal-organic frameworks for gas adsorption/separation. <i>Nanoscale Advances</i> ,	5.1	3
1	Synthesis and Visualization of Entangled 3D Covalent Organic Frameworks with High-Valency Stereoscopic Molecular Nodes for Gas Separation. <i>Angewandte Chemie - International Edition</i> ,	16.4	6