

Bin Wang

List of Publications by Year in descending order

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42
papers

5,887
citations

201674

27
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276875

41
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all docs

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docs citations

42
times ranked

5796
citing authors

#	ARTICLE	IF	CITATIONS
1	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. <i>Nano Research</i> , 2021, 14, 507-511.	10.4	57
2	Linker Desymmetrization: Access to a Series of Rare-Earth Tetracarboxylate Frameworks with Eight-Connected Hexanuclear Nodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 2784-2791.	13.7	61
3	A Copper-Based Metal-Organic Framework for C ₂ H ₂ /CO ₂ Separation. <i>Inorganic Chemistry</i> , 2021, 60, 18816-18821.	4.0	9
4	Broad spectrum detection of veterinary drugs with a highly stable metal-organic framework. <i>Journal of Hazardous Materials</i> , 2020, 382, 121018.	12.4	64
5	Two isomeric In(III)-MOFs: unexpected stability difference and selective fluorescence detection of fluoroquinolone antibiotics in water. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1161-1171.	6.0	89
6	Effective adsorption of metronidazole antibiotic from water with a stable Zr(IV)-MOFs: Insights from DFT, kinetics and thermodynamics studies. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103642.	6.7	56
7	Pillar-Layered Metal-Organic Frameworks Based on a Hexaprismane [Co ₆ (μ_3 -OH) ₆] Cluster: Structural Modulation and Catalytic Performance in Aerobic Oxidation Reaction. <i>Inorganic Chemistry</i> , 2020, 59, 11728-11735.	4.0	17
8	Design and applications of water-stable metal-organic frameworks: status and challenges. <i>Coordination Chemistry Reviews</i> , 2020, 423, 213507.	18.8	138
9	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 14399-14416.	13.7	444
10	A three-dimensional metal-organic framework with high performance of dual cation sensing synthesized via single-crystal transformation. <i>New Journal of Chemistry</i> , 2020, 44, 11829-11834.	2.8	8
11	Dual-emissive metal-organic framework: a novel turn-on and ratiometric fluorescent sensor for highly efficient and specific detection of hypochlorite. <i>Dalton Transactions</i> , 2020, 49, 9680-9687.	3.3	25
12	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. <i>Journal of the American Chemical Society</i> , 2020, 142, 12478-12485.	13.7	201
13	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020, 32, e1907995.	21.0	118
14	A novel hydrogen-bonded organic framework for the sensing of two representative organic arsenics. <i>Canadian Journal of Chemistry</i> , 2020, 98, 352-357.	1.1	22
15	Sensitive and Selective Detection of Bisphenol Compounds in a Fluorescent Metal-Organic Framework. <i>Sensors and Actuators B: Chemical</i> , 2020, 314, 128048.	7.8	33
16	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. <i>Chemical Communications</i> , 2020, 56, 66-69.	4.1	76
17	Selective detection of two representative organic arsenic compounds in aqueous medium with metal-organic frameworks. <i>Environmental Science: Nano</i> , 2019, 6, 2759-2766.	4.3	33
18	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. <i>Nature Communications</i> , 2019, 10, 3861.	12.8	164

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19	Ligand Rigidification for Enhancing the Stability of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 10283-10293.	13.7	172
20	Determination and removal of clenbuterol with a stable fluorescent zirconium(IV)-based metal organic framework. <i>Mikrochimica Acta</i> , 2019, 186, 454.	5.0	32
21	An anionic In(III)-based metal-organic framework with Lewis basic sites for the selective adsorption and separation of organic cationic dyes. <i>Chinese Chemical Letters</i> , 2019, 30, 234-238.	9.0	39
22	Polymeric poly[[decaaquabis(1/4₆-1,8-disulfonato-9<i>H</i>-carbazole-3,6-dicarboxylato)di-1/4₃-hydroxy-pentazinc] decahydrate]. <i>IUCrData</i> , 2019, 4, .		
23	The influence of the molecular packing on the room temperature phosphorescence of purely organic luminogens. <i>Nature Communications</i> , 2018, 9, 840.	12.8	764
24	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. <i>Chemical Engineering Journal</i> , 2018, 346, 489-496.	12.7	87
25	Stable Zr(IV)-Based Metal-Organic Frameworks with Predesigned Functionalized Ligands for Highly Selective Detection of Fe(III) Ions in Water. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10286-10295.	8.0	371
26	A stable porphyrinic metal-organic framework pore-functionalized by high-density carboxylic groups for proton conduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14525-14529.	10.3	121
27	A Base-Resistant Metalloporphyrin Metal-Organic Framework for C-H Bond Halogenation. <i>Journal of the American Chemical Society</i> , 2017, 139, 211-217.	13.7	250
28	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. <i>Nature Energy</i> , 2017, 2, 877-883.	39.5	563
29	A pillar-layered Cd(II) metal-organic framework for selective detection of organic explosives. <i>Journal of Coordination Chemistry</i> , 2017, 70, 2541-2550.	2.2	3
30	A Copper(II)-Paddlewheel Metal-Organic Framework with Exceptional Hydrolytic Stability and Selective Adsorption and Detection Ability of Aniline in Water. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27027-27035.	8.0	109
31	A Base-Resistant Zn ^{II} -Based Metal-Organic Framework: Synthesis, Structure, Postsynthetic Modification, and Gas Adsorption. <i>ChemPlusChem</i> , 2016, 81, 864-871.	2.8	16
32	Highly Stable Zr(IV)-Based Metal-Organic Frameworks for the Detection and Removal of Antibiotics and Organic Explosives in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 6204-6216.	13.7	1,273
33	Nanocage containing metal-organic framework constructed from a newly designed low symmetry tetra-pyrazole ligand. <i>Journal of Coordination Chemistry</i> , 2016, 69, 3242-3249.	2.2	1
34	Oriented Nano-Microstructure-Assisted Controllable Fabrication of Metal-Organic Framework Membranes on Nickel Foam. <i>Advanced Materials</i> , 2016, 28, 2374-2381.	21.0	99
35	Different two-dimensional metal-organic frameworks through ligand modification. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2193-2199.	2.2	4
36	Controlling structural topology of metal-organic frameworks with a desymmetric 4-connected ligand through the design of metal-containing nodes. <i>Chinese Chemical Letters</i> , 2016, 27, 502-506.	9.0	23

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37	A novel porous anionic metal-organic framework with pillared double-layer structure for selective adsorption of dyes. <i>Journal of Solid State Chemistry</i> , 2016, 233, 143-149.	2.9	22
38	Tetrazolate-azido-copper coordination polymers: tuned synthesis, structure, and magnetic properties. <i>CrystEngComm</i> , 2015, 17, 4136-4142.	2.6	25
39	A high surface area Zr(IV)-based metal-organic framework showing stepwise gas adsorption and selective dye uptake. <i>Journal of Solid State Chemistry</i> , 2015, 223, 104-108.	2.9	44
40	A fluorescent 3-D metal-organic framework with unusual tetranuclear zinc secondary building units. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3484-3491.	2.2	12
41	Tuning CO ₂ Selective Adsorption over N ₂ and CH ₄ in UiO-67 Analogues through Ligand Functionalization. <i>Inorganic Chemistry</i> , 2014, 53, 9254-9259.	4.0	239
42	An antiferromagnetic metal-organic framework with high symmetry octanuclear Mn ₈ ($\frac{1}{4}$ -O) ₃ (COO) ₁₂ secondary building units. <i>Journal of Coordination Chemistry</i> , 2014, 67, 2606-2614.	2.2	3