WendyÂ L Queen

List of Publications by Year
in descending order

68 papers	9,329 citations	117453 34 h-index	102304 66 g-index
75 all docs	75 docs citations	75 times ranked	9987 citing authors

#	Article	IF	Citations
1	Water Adsorption in Porous Metalâ€“Organic Frameworks and Related Materials. Journal of the American Chemical Society, 2014, 136, 4369-4381.	6.6	2,002
2	Hydrocarbon Separations in a Metal-Organic Framework with Open Iron(II) Coordination Sites. Science, 2012, 335, 1606-1610.	6.0	1,635
3	Selective Binding of O₂ over N₂ in a Redoxâ€“Active Metalâ€“Organic Framework with Open Iron(II) Coordination Sites. Journal of the American Chemical Society, 2011, 133, 14814-14822.	6.6	470
4	Selective adsorption of ethylene over ethane and propylene over propane in the metalâ€“organic frameworks M2(dobdc) (M = Mg, Mn, Fe, Co, Ni, Zn). Chemical Science, 2013, 4, 2054.	3.7	398
5	Oxidation of ethane to ethanol by N2O in a metalâ€“organic framework with coordinatively unsaturated iron(II) sites. Nature Chemistry, 2014, 6, 590-595.	6.6	398
6	Unconventional, Highly Selective CO₂ Adsorption in Zeolite SSZ-13. Journal of the American Chemical Society, 2012, 134, 1970-1973.	6.6	363
7	Comprehensive study of carbon dioxide adsorption in the metalâ€“organic frameworks M₂(dobdc) (M = Mg, Mn, Fe, Co, Ni, Cu, Zn). Chemical Science, 2014, 5, 4569-4581.	3.7	342
8	Evaluation of cation-exchanged zeolite adsorbents for post-combustion carbon dioxide capture. Energy and Environmental Science, 2013, 6, 128-138.	15.6	332
9	Rapid, Selective Heavy Metal Removal from Water by a Metalâ€“Organic Framework/Polydopamine Composite. ACS Central Science, 2018, 4, 349-356.	5.3	311
10	Hydrogen storage and carbon dioxide capture in an iron-based sodalite-type metalâ€“organic framework (Fe-BTT) discovered via high-throughput methods. Chemical Science, 2010, 1, 184.	3.7	294
11	Reversible CO Binding Enables Tunable CO/H₂ and CO/N₂ Separations in Metalâ€“Organic Frameworks with Exposed Divalent Metal Cations. Journal of the American Chemical Society, 2014, 136, 10752-10761.	6.6	210
12	Rapid, Selective Extraction of Trace Amounts of Gold from Complex Water Mixtures with a Metalâ€“Organic Framework (MOF)/Polymer Composite. Journal of the American Chemical Society, 2018, 140, 16697-16703.	6.6	195
13	Hydrogen Storage in the Expanded Pore Metalâ€“Organic Frameworks M₂(dobpdc) (M = Mg,) Tj ETQq1 1 0.784314 rgB	3.2	171
14	Site-Specific CO₂ Adsorption and Zero Thermal Expansion in an Anisotropic Pore Network. Journal of Physical Chemistry C, 2011, 115, 24915-24919.	1.5	141
15	Preparation of Highly Porous Metalâ€“Organic Framework Beads for Metal Extraction from Liquid Streams. Journal of the American Chemical Society, 2020, 142, 13415-13425.	6.6	123
16	A new post-synthetic polymerization strategy makes metalâ€“organic frameworks more stable. Chemical Science, 2019, 10, 4542-4549.	3.7	112
17	Enhancing MOF performance through the introduction of polymer guests. Coordination Chemistry Reviews, 2021, 427, 213525.	9.5	109
18	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie - International Edition, 2016, 55, 8605-8609.	7.2	102

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19	Origin of FM Ordering in Pristine Micro- and Nanostructured ZnO. Nano Letters, 2010, 10, 1383-1386.	4.5	98
20	Ab Initio Derived Force Fields for Predicting CO₂ Adsorption and Accessibility of Metal Sites in the Metalâ€“Organic Frameworks M-MOF-74 (M = Mn, Co, Ni, Cu). Journal of Physical Chemistry C, 2015, 119, 16058-16071.	1.5	84
21	Gradual Release of Strongly Bound Nitric Oxide from Fe₂(NO)₂(dobdc). Journal of the American Chemical Society, 2015, 137, 3466-3469.	6.6	81
22	Recent Advances of MOFs and MOFâ€Derived Materials in Thermally Driven Organic Transformations. Chemistry - A European Journal, 2019, 25, 2161-2178.	1.7	81
23	Structural characterization of frameworkâ€“gas interactions in the metalâ€“organic framework Co₂(dobdc) by in situ single-crystal X-ray diffraction. Chemical Science, 2017, 8, 4387-4398.	3.7	80
24	Hydrogen adsorption in the metalâ€“organic frameworks Fe2(dobdc) and Fe2(O2)(dobdc). Dalton Transactions, 2012, 41, 4180.	1.6	78
25	MOFâ€Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. Chemistry - A European Journal, 2018, 24, 4234-4238.	1.7	73
26	Preserving Porosity of Mesoporous Metalâ€“Organic Frameworks through the Introduction of Polymer Guests. Journal of the American Chemical Society, 2019, 141, 12397-12405.	6.6	68
27	A novel integrated Cr(<scp>vi</scp>) adsorptionâ€“photoreduction system using MOF@polymer composite beads. Journal of Materials Chemistry A, 2020, 8, 9629-9637.	5.2	64
28	Efficient reductive amination of HMF with well dispersed Pd nanoparticles immobilized in a porous MOF/polymer composite. Green Chemistry, 2020, 22, 368-378.	4.6	58
29	Understanding the Formation Mechanism of Metal Nanocrystal@MOF-74 Hybrids. Chemistry of Materials, 2016, 28, 3839-3849.	3.2	50
30	The Versatile Chemistry and Noncentrosymmetric Crystal Structures of Saltâ€Inclusion Vanadate Hybrids. Angewandte Chemie - International Edition, 2008, 47, 3791-3794.	7.2	48
31	Sub-micron Polymerâ€“Zeolitic Imidazolate Framework Layered Hybrids via Controlled Chemical Transformation of Naked ZnO Nanocrystal Films. Chemistry of Materials, 2015, 27, 7673-7679.	3.2	45
32	Using Predefined M₃(Î¼₃-O) Clusters as Building Blocks for an Isostructural Series of Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2017, 9, 23957-23966.	4.0	43
33	An experimental and computational study of CO2adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe,) Tj ETQq1 1 0.784314 rgBT /Ov	3.7	43
34	Metalâ€“Organicâ€Frameworkâ€Derived Co₃S₄ Hollow Nanoboxes for the Selective Reduction of Nitroarenes. ChemSusChem, 2018, 11, 3131-3138.	3.6	40
35	Lead Sequestration from Perovskite Solar Cells Using a Metalâ€“Organic Framework Polymer Composite. Energy Technology, 2020, 8, 2000239.	1.8	35
36	Understanding Smallâ€Molecule Interactions in Metalâ€“Organic Frameworks: Coupling Experiment with Theory. Advanced Materials, 2015, 27, 5785-5796.	11.1	33

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37	MOF/polymer composite synthesized using a double solvent method offers enhanced water and CO₂ adsorption properties. Chemical Communications, 2018, 54, 10602-10605.	2.2	33
38	A metalâ€“organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. Chemical Science, 2020, 11, 10991-10997.	3.7	32
39	Selective CO₂ adsorption by a new metalâ€“organic framework: synergy between open metal sites and a charged imidazolinium backbone. Dalton Transactions, 2018, 47, 10527-10535.	1.6	31
40	An Investigation into the Intrinsic Peroxidaseâ€Like Activity of Feâ€MOFs and Feâ€MOFs/Polymer Composites. Advanced Materials Technologies, 2021, 6, 2001048.	3.0	27
41	A Low-Dimensional Iron(II) Phosphate Exhibiting Field-Dependent Magnetization Steps. Angewandte Chemie - International Edition, 2007, 46, 5344-5347.	7.2	25
42	Flexible metal-organic framework compounds: In situ studies for selective CO2 capture. Journal of Alloys and Compounds, 2015, 647, 24-34.	2.8	25
43	Controllable Synthesis of Multiheteroatoms Co-Doped Hierarchical Porous Carbon Spheres as an Ideal Catalysis Platform. ACS Applied Materials & Interfaces, 2018, 10, 19664-19672.	4.0	25
44	Salt-Templated Mesoporous Solids Comprised of Interlinked Polyoxovanadate Clusters. Inorganic Chemistry, 2010, 49, 1316-1318.	1.9	24
45	Transparent Metalâ€“Organic Framework/Polymer Mixed Matrix Membranes as Water Vapor Barriers. ACS Applied Materials & Interfaces, 2016, 8, 10098-10103.	4.0	24
46	Spaced Heterometallic 3dâ€“4f Magnetic Chains from the Pseudoâ€Oneâ€Dimensional Na₂LnMnO(AsO₄)₂ Series: Stepped Magnetization in the Na₂GdMnO(AsO₄)₂ Ferromagnet. Angewandte Chemie - International Edition, 2011, 50, 3780-3783.	7.2	23
47	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie, 2016, 128, 8747-8751.	1.6	23
48	Synergistic material and process development: Application of a metal-organic framework, Cu-TDPAT, in single-cycle hydrogen purification and CO2 capture from synthesis gas. Chemical Engineering Journal, 2021, 414, 128778.	6.6	23
49	A Two Step Postsynthetic Modification Strategy: Appending Short Chain Polyamines to Zn-NH₂-BDC MOF for Enhanced CO₂ Adsorption. Inorganic Chemistry, 2021, 60, 11720-11729.	1.9	21
50	Extended Utility of Molten-Salt Chemistry: Unprecedented Synthesis of a Water-Soluble Salt-Inclusion Solid Comprised of High-Nuclearity Vanadium Oxide Clusters. Inorganic Chemistry, 2011, 50, 11064-11068.	1.9	20
51	Ligand Coupling Symmetry Correlates with Thermopower Enhancement in Small-Molecule/Nanocrystal Hybrid Materials. ACS Nano, 2014, 8, 10528-10536.	7.3	19
52	Recent Advances in Carbon Capture with Metalâ€“Organic Frameworks. Chimia, 2015, 69, 274.	0.3	19
53	Understanding How Ligand Functionalization Influences CO2 and N2 Adsorption in a Sodalite Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	3.2	19
54	Hybridization of Synthetic Humins with a Metalâ€“Organic Framework for Precious Metal Recovery and Reuse. ACS Applied Materials & Interfaces, 2021, 13, 60027-60034.	4.0	19

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55	Synthesis, Structure, and Magnetic Properties of Na₃LnMn₃O₃(AsO₄)₃(Ln = La, Sm, and Gd): A New 3d-4f Series Exhibiting One-Dimensional Manganese(III) Oxide Chains Connected via LnO₉Units. Inorganic Chemistry, 2009, 48, 8439-8444.	1.9	16
56	An Inâ€Situ Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodaliteâ€Type Metalâ€“Organic Framework, Cuâ€BTTri. European Journal of Inorganic Chemistry, 2019, 2019, 1147-1154.	1.0	15
57	Mechanistic Study on Thermally Induced Lattice Stiffening of ZIF-8. Chemistry of Materials, 2021, 33, 4035-4044.	3.2	12
58	Large anisotropic negative thermal expansion in Cu-TDPAT metal-organic framework: A combined in situ X-ray diffraction and DRIFTS study. Nano Research, 2021, 14, 404-410.	5.8	10
59	Symmetry preservation in a new noncentrosymmetric lattice comprised of acentric POM clusters residing in bowls of Cs⁺-based half SOD Î²-cage. Chemical Communications, 2012, 48, 1665-1667.	2.2	9
60	Catalyst-Free Synthesis of Aryl Diamines via a Three-Step Reaction Process. Journal of Organic Chemistry, 2018, 83, 3806-3818.	1.7	9
61	Synthesis and Structure of Ba5(V2O7)2Cl2. Journal of Chemical Crystallography, 2009, 39, 303-307.	0.5	5
62	Structural phase transition in two-dimensional tetramer-cuprate Na5RbCu4(AsO4)4Cl2. Low Temperature Physics, 2007, 33, 684-687.	0.2	3
63	And for MOFsâ€™ Next Trick: Pulling Water out of Thin Air. ACS Central Science, 2017, 3, 531-532.	5.3	2
64	Mystical Material Might Help Solve Global Energy Problems. ACS Central Science, 2019, 5, 1307-1309.	5.3	2
65	3D vs. turbostratic: controlling metalâ€“organic framework dimensionality via N-heterocyclic carbene chemistry. Chemical Science, 2022, 13, 6418-6428.	3.7	2
66	New Low-Dimensional Iron(II) Phosphates Exhibiting Field-Dependent Magnetization Steps. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	0
67	Neutron Scattering in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1057-1059.	1.0	0
68	Enhancing MOF performance through the Introduction of polymer guests. , 0, , .		0