

Wendy L Queen

List of Publications by Year in descending order

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68
papers

9,329
citations

117453

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102304

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docs citations

75
times ranked

9987
citing authors

#	ARTICLE	IF	CITATIONS
1	3D <i>vs.</i> turbostratic: controlling metal-organic framework dimensionality via N-heterocyclic carbene chemistry. <i>Chemical Science</i> , 2022, 13, 6418-6428.	3.7	2
2	Large anisotropic negative thermal expansion in Cu-TDPAT metal-organic framework: A combined in situ X-ray diffraction and DRIFTS study. <i>Nano Research</i> , 2021, 14, 404-410.	5.8	10
3	Enhancing MOF performance through the introduction of polymer guests. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213525.	9.5	109
4	An Investigation into the Intrinsic Peroxidase-Like Activity of Fe-MOFs and Fe-MOFs/Polymer Composites. <i>Advanced Materials Technologies</i> , 2021, 6, 2001048.	3.0	27
5	Mechanistic Study on Thermally Induced Lattice Stiffening of ZIF-8. <i>Chemistry of Materials</i> , 2021, 33, 4035-4044.	3.2	12
6	Synergistic material and process development: Application of a metal-organic framework, Cu-TDPAT, in single-cycle hydrogen purification and CO ₂ capture from synthesis gas. <i>Chemical Engineering Journal</i> , 2021, 414, 128778.	6.6	23
7	A Two Step Postsynthetic Modification Strategy: Appending Short Chain Polyamines to Zn-NH ₂ -BDC MOF for Enhanced CO ₂ Adsorption. <i>Inorganic Chemistry</i> , 2021, 60, 11720-11729.	1.9	21
8	Hybridization of Synthetic Humins with a Metal-Organic Framework for Precious Metal Recovery and Reuse. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60027-60034.	4.0	19
9	Efficient reductive amination of HMF with well dispersed Pd nanoparticles immobilized in a porous MOF/polymer composite. <i>Green Chemistry</i> , 2020, 22, 368-378.	4.6	58
10	A metal-organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. <i>Chemical Science</i> , 2020, 11, 10991-10997.	3.7	32
11	Preparation of Highly Porous Metal-Organic Framework Beads for Metal Extraction from Liquid Streams. <i>Journal of the American Chemical Society</i> , 2020, 142, 13415-13425.	6.6	123
12	A novel integrated Cr(<i>vi</i>) adsorption-photoreduction system using MOF@polymer composite beads. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9629-9637.	5.2	64
13	Understanding How Ligand Functionalization Influences CO ₂ and N ₂ Adsorption in a Sodalite Metal-Organic Framework. <i>Chemistry of Materials</i> , 2020, 32, 1526-1536.	3.2	19
14	Lead Sequestration from Perovskite Solar Cells Using a Metal-Organic Framework Polymer Composite. <i>Energy Technology</i> , 2020, 8, 2000239.	1.8	35
15	Recent Advances of MOFs and MOF-Derived Materials in Thermally Driven Organic Transformations. <i>Chemistry - A European Journal</i> , 2019, 25, 2161-2178.	1.7	81
16	Mystical Material Might Help Solve Global Energy Problems. <i>ACS Central Science</i> , 2019, 5, 1307-1309.	5.3	2
17	Preserving Porosity of Mesoporous Metal-Organic Frameworks through the Introduction of Polymer Guests. <i>Journal of the American Chemical Society</i> , 2019, 141, 12397-12405.	6.6	68
18	A new post-synthetic polymerization strategy makes metal-organic frameworks more stable. <i>Chemical Science</i> , 2019, 10, 4542-4549.	3.7	112

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19	Neutron Scattering in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1057-1059.	1.0	0
20	An <i>in situ</i> Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodalite-Type Metal-Organic Framework, Cu-BTTri. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1147-1154.	1.0	15
21	Catalyst-Free Synthesis of Aryl Diamines via a Three-Step Reaction Process. <i>Journal of Organic Chemistry</i> , 2018, 83, 3806-3818.	1.7	9
22	An experimental and computational study of CO ₂ adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe,) <i>Tj ETQq0 0.0 rgBT /Overlock 10</i>	3.7	43
23	MOF-Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. <i>Chemistry - A European Journal</i> , 2018, 24, 4234-4238.	1.7	73
24	Rapid, Selective Heavy Metal Removal from Water by a Metal-Organic Framework/Polydopamine Composite. <i>ACS Central Science</i> , 2018, 4, 349-356.	5.3	311
25	Rapid, Selective Extraction of Trace Amounts of Gold from Complex Water Mixtures with a Metal-Organic Framework (MOF)/Polymer Composite. <i>Journal of the American Chemical Society</i> , 2018, 140, 16697-16703.	6.6	195
26	Selective CO ₂ adsorption by a new metal-organic framework: synergy between open metal sites and a charged imidazolium backbone. <i>Dalton Transactions</i> , 2018, 47, 10527-10535.	1.6	31
27	Controllable Synthesis of Multiheteroatoms Co-Doped Hierarchical Porous Carbon Spheres as an Ideal Catalysis Platform. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19664-19672.	4.0	25
28	Metal-Organic Framework-Derived Co ₃ S ₄ Hollow Nanoboxes for the Selective Reduction of Nitroarenes. <i>ChemSusChem</i> , 2018, 11, 3131-3138.	3.6	40
29	MOF/polymer composite synthesized using a double solvent method offers enhanced water and CO ₂ adsorption properties. <i>Chemical Communications</i> , 2018, 54, 10602-10605.	2.2	33
30	Structural characterization of framework-gas interactions in the metal-organic framework Co ₂ (dobdc) by in situ single-crystal X-ray diffraction. <i>Chemical Science</i> , 2017, 8, 4387-4398.	3.7	80
31	And for MOFs™ Next Trick: Pulling Water out of Thin Air. <i>ACS Central Science</i> , 2017, 3, 531-532.	5.3	2
32	Using Predefined M ₃ ($\frac{1}{4}$ MO ₃ -O) Clusters as Building Blocks for an Isostructural Series of Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23957-23966.	4.0	43
33	Hydrogen Storage and Selective, Reversible O ₂ Adsorption in a Metal-Organic Framework with Open Chromium(II) Sites. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8605-8609.	7.2	102
34	Hydrogen Storage and Selective, Reversible O ₂ Adsorption in a Metal-Organic Framework with Open Chromium(II) Sites. <i>Angewandte Chemie</i> , 2016, 128, 8747-8751.	1.6	23
35	Understanding the Formation Mechanism of Metal Nanocrystal@MOF-74 Hybrids. <i>Chemistry of Materials</i> , 2016, 28, 3839-3849.	3.2	50
36	Transparent Metal-Organic Framework/Polymer Mixed Matrix Membranes as Water Vapor Barriers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10098-10103.	4.0	24

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37	Hydrogen Storage in the Expanded Pore Metal-Organic Frameworks $M_2(dobpc)$ ($M = Mg$). <i>J. Phys. Chem. B</i> , 2005, 109, 1077-1081.	3.2	171
38	Understanding Small-Molecule Interactions in Metal-Organic Frameworks: Coupling Experiment with Theory. <i>Advanced Materials</i> , 2015, 27, 5785-5796.	11.1	33
39	Gradual Release of Strongly Bound Nitric Oxide from $Fe_2(NO)_2(dobdc)$. <i>Journal of the American Chemical Society</i> , 2015, 137, 3466-3469.	6.6	81
40	Flexible metal-organic framework compounds: In situ studies for selective CO ₂ capture. <i>Journal of Alloys and Compounds</i> , 2015, 647, 24-34.	2.8	25
41	Ab Initio Derived Force Fields for Predicting CO ₂ Adsorption and Accessibility of Metal Sites in the Metal-Organic Frameworks M-MOF-74 ($M = Mn, Co, Ni, Cu$). <i>Journal of Physical Chemistry C</i> , 2015, 119, 16058-16071.	1.5	84
42	Sub-micron Polymer-Zeolitic Imidazolate Framework Layered Hybrids via Controlled Chemical Transformation of Naked ZnO Nanocrystal Films. <i>Chemistry of Materials</i> , 2015, 27, 7673-7679.	3.2	45
43	Recent Advances in Carbon Capture with Metal-Organic Frameworks. <i>Chimia</i> , 2015, 69, 274.	0.3	19
44	Water Adsorption in Porous Metal-Organic Frameworks and Related Materials. <i>Journal of the American Chemical Society</i> , 2014, 136, 4369-4381.	6.6	2,002
45	Oxidation of ethane to ethanol by N ₂ O in a metal-organic framework with coordinatively unsaturated iron(II) sites. <i>Nature Chemistry</i> , 2014, 6, 590-595.	6.6	398
46	Ligand Coupling Symmetry Correlates with Thermopower Enhancement in Small-Molecule/Nanocrystal Hybrid Materials. <i>ACS Nano</i> , 2014, 8, 10528-10536.	7.3	19
47	Comprehensive study of carbon dioxide adsorption in the metal-organic frameworks $M_2(dobdc)$ ($M = Mg, Mn, Fe, Co, Ni, Cu, Zn$). <i>Chemical Science</i> , 2014, 5, 4569-4581.	3.7	342
48	Reversible CO Binding Enables Tunable CO/H ₂ and CO/N ₂ Separations in Metal-Organic Frameworks with Exposed Divalent Metal Cations. <i>Journal of the American Chemical Society</i> , 2014, 136, 10752-10761.	6.6	210
49	Evaluation of cation-exchanged zeolite adsorbents for post-combustion carbon dioxide capture. <i>Energy and Environmental Science</i> , 2013, 6, 128-138.	15.6	332
50	Selective adsorption of ethylene over ethane and propylene over propane in the metal-organic frameworks $M_2(dobdc)$ ($M = Mg, Mn, Fe, Co, Ni, Zn$). <i>Chemical Science</i> , 2013, 4, 2054.	3.7	398
51	Symmetry preservation in a new noncentrosymmetric lattice comprised of acentric POM clusters residing in bowls of Cs ⁺ -based half SOD β -cage. <i>Chemical Communications</i> , 2012, 48, 1665-1667.	2.2	9
52	Unconventional, Highly Selective CO ₂ Adsorption in Zeolite SSZ-13. <i>Journal of the American Chemical Society</i> , 2012, 134, 1970-1973.	6.6	363
53	Hydrogen adsorption in the metal-organic frameworks $Fe_2(dobdc)$ and $Fe_2(O)_2(dobdc)$. <i>Dalton Transactions</i> , 2012, 41, 4180.	1.6	78
54	Hydrocarbon Separations in a Metal-Organic Framework with Open Iron(II) Coordination Sites. <i>Science</i> , 2012, 335, 1606-1610.	6.0	1,635

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55	Site-Specific CO ₂ Adsorption and Zero Thermal Expansion in an Anisotropic Pore Network. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24915-24919.	1.5	141
56	Extended Utility of Molten-Salt Chemistry: Unprecedented Synthesis of a Water-Soluble Salt-Inclusion Solid Comprised of High-Nuclearity Vanadium Oxide Clusters. <i>Inorganic Chemistry</i> , 2011, 50, 11064-11068.	1.9	20
57	Selective Binding of O ₂ over N ₂ in a Redox-Active Metal-Organic Framework with Open Iron(II) Coordination Sites. <i>Journal of the American Chemical Society</i> , 2011, 133, 14814-14822.	6.6	470
58	Spaced Heterometallic 3d-4f Magnetic Chains from the Pseudo-One-Dimensional Na ₂ LnMnO(AsO ₄) ₂ Series: Stepped Magnetization in the Na ₂ GdMnO(AsO ₄) ₂ Ferromagnet. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3780-3783.	7.2	23
59	Hydrogen storage and carbon dioxide capture in an iron-based sodalite-type metal-organic framework (Fe-BTT) discovered via high-throughput methods. <i>Chemical Science</i> , 2010, 1, 184.	3.7	294
60	Origin of FM Ordering in Pristine Micro- and Nanostructured ZnO. <i>Nano Letters</i> , 2010, 10, 1383-1386.	4.5	98
61	Salt-Templated Mesoporous Solids Comprised of Interlinked Polyoxovanadate Clusters. <i>Inorganic Chemistry</i> , 2010, 49, 1316-1318.	1.9	24
62	Synthesis and Structure of Ba ₅ (V ₂ O ₇) ₂ Cl ₂ . <i>Journal of Chemical Crystallography</i> , 2009, 39, 303-307.	0.5	5
63	Synthesis, Structure, and Magnetic Properties of Na ₃ LnMn ₃ O ₃ (AsO ₄) ₃ (Ln = La, Sm, and Gd): A New 3d-4f Series Exhibiting One-Dimensional Manganese(III) Oxide Chains Connected via LnO ₉ Units. <i>Inorganic Chemistry</i> , 2009, 48, 8439-8444.	1.9	16
64	The Versatile Chemistry and Noncentrosymmetric Crystal Structures of Salt-Inclusion Vanadate Hybrids. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3791-3794.	7.2	48
65	Structural phase transition in two-dimensional tetramer-cuprate Na ₅ RbCu ₄ (AsO ₄) ₄ Cl ₂ . <i>Low Temperature Physics</i> , 2007, 33, 684-687.	0.2	3
66	A Low-Dimensional Iron(II) Phosphate Exhibiting Field-Dependent Magnetization Steps. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5344-5347.	7.2	25
67	New Low-Dimensional Iron(II) Phosphates Exhibiting Field-Dependent Magnetization Steps. <i>Materials Research Society Symposia Proceedings</i> , 2006, 988, 1.	0.1	0
68	Enhancing MOF performance through the Introduction of polymer guests. , 0, , .		0