Jeffrey R Long

List of Publications by Year
in descending order

248	70,416	950 115	813 246
papers	citations	h-index	g-index

255	255	255	36799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Introduction to Metalâ€“Organic Frameworks. Chemical Reviews, 2012, 112, 673-674.	23.0	5,980
2	Carbon Dioxide Capture in Metalâ€“Organic Frameworks. Chemical Reviews, 2012, 112, 724-781.	23.0	5,612
3	Hydrogen storage in metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1294.	18.7	4,136
4	Carbon Dioxide Capture: Prospects for New Materials. Angewandte Chemie - International Edition, 2010, 49, 6058-6082.	7.2	3,452
5	The pervasive chemistry of metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1213.	18.7	2,196
6	Exploiting single-ion anisotropy in the design of f-element single-molecule magnets. Chemical Science, 2011, 2, 2078.	3.7	1,757
7	Hydrocarbon Separations in a Metal-Organic Framework with Open Iron(II) Coordination Sites. Science, 2012, 335, 1606-1610.	6.0	1,635
8	Impact of Preparation and Handling on the Hydrogen Storage Properties of Zn₄O(1,4-benzenedicarboxylate)₃ (MOF-5). Journal of the American Chemical Society, 2007, 129, 14176-14177.	6.6	1,498
9	A Molecular MoS ₂ Edge Site Mimic for Catalytic Hydrogen Generation. Science, 2012, 335, 698-702.	6.0	1,103
10	Hydrogen Storage in Microporous Metalâ€“Organic Frameworks with Exposed Metal Sites. Angewandte Chemie - International Edition, 2008, 47, 6766-6779.	7.2	1,086
11	Hydrogen Storage in a Microporous Metalâ^'Organic Framework with Exposed Mn2+Coordination Sites. Journal of the American Chemical Society, 2006, 128, 16876-16883.	6.6	1,081
12	Strong CO₂ Binding in a Water-Stable, Triazolate-Bridged Metalâ^'Organic Framework Functionalized with Ethylenediamine. Journal of the American Chemical Society, 2009, 131, 8784-8786.	6.6	1,047
13	Capture of Carbon Dioxide from Air and Flue Gas in the Alkylamine-Appended Metalâ€“Organic Framework mmen-Mg₂(dobpdc). Journal of the American Chemical Society, 2012, 134, 7056-7065.	6.6	1,038
14	Evaluating metalâ€“organic frameworks for natural gas storage. Chemical Science, 2014, 5, 32-51.	3.7	1,038
15	Cooperative insertion of CO2 in diamine-appended metal-organic frameworks. Nature, 2015, 519, 303-308.	13.7	1,026
16	Strong exchange and magnetic blocking in N23â^'-radical-bridged lanthanide complexes. Nature Chemistry, 2011, 3, 538-542.	6.6	987
17	A N₂^{3â€“} Radical-Bridged Terbium Complex Exhibiting Magnetic Hysteresis at 14 K. Journal of the American Chemical Society, 2011, 133, 14236-14239.	6.6	905
18	Evaluating metalâ€“organic frameworks for post-combustion carbon dioxide capture via temperature swing adsorption. Energy and Environmental Science, 2011, 4, 3030.	15.6	901

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19	Methane storage in flexible metalâ€“organic frameworks with intrinsic thermal management. Nature, 2015, 527, 357-361.	13.7	817
20	Strong H2Binding and Selective Gas Adsorption within the Microporous Coordination Solid Mg3(O2C-C10H6-CO2)3. Journal of the American Chemical Society, 2005, 127, 9376-9377.	6.6	727
21	A molecular molybdenum-oxo catalyst for generating hydrogen from water. Nature, 2010, 464, 1329-1333.	13.7	637
22	Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels. Science, 2013, 340, 960-964.	6.0	589
23	Complexes of earth-abundant metals for catalytic electrochemical hydrogen generation under aqueous conditions. Chemical Society Reviews, 2013, 42, 2388-2400.	18.7	586
24	Magnetic blocking in a linear iron(I) complex. Nature Chemistry, 2013, 5, 577-581.	6.6	562
25	Slow magnetization dynamics in a series of two-coordinate iron(<scp>ii</scp>) complexes. Chemical Science, 2013, 4, 125-138.	3.7	518
26	Hydrocarbon Separations in Metalâ€“Organic Frameworks. Chemistry of Materials, 2014, 26, 323-338.	3.2	517
27	Metal Insertion in a Microporous Metalâ^'Organic Framework Lined with 2,2â€²-Bipyridine. Journal of the American Chemical Society, 2010, 132, 14382-14384.	6.6	514
28	Microporous magnets. Chemical Society Reviews, 2011, 40, 3249.	18.7	498
29	Enhanced carbon dioxide capture upon incorporation of N,Nâ€²-dimethylethylenediamine in the metalâ€“organic framework CuBTTri. Chemical Science, 2011, 2, 2022.	3.7	491
30	Radical ligand-containing single-molecule magnets. Coordination Chemistry Reviews, 2015, 289-290, 149-176.	9.5	489
31	High-Enthalpy Hydrogen Adsorption in Cation-Exchanged Variants of the Microporous Metalâ^'Organic Framework Mn₃[(Mn₄Cl)₃(BTT)₈(CH₃OH)₁₀]₂. Journal of the American Chemical Society, 2007, 129, 11172-11176.	6.6	470
32	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
33	Metalâ^'Organic Frameworks as Adsorbents for Hydrogen Purification and Precombustion Carbon Dioxide Capture. Journal of the American Chemical Society, 2011, 133, 5664-5667.	6.6	465
34	Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based Metalâ^'Organic Framework. Chemistry of Materials, 2010, 22, 4120-4122.	3.2	459
35	Slow Magnetic Relaxation in a High-Spin Iron(II) Complex. Journal of the American Chemical Society, 2010, 132, 1224-1225.	6.6	457
36	Slow Magnetic Relaxation at Zero Field in the Tetrahedral Complex [Co(SPh)₄]^{2â€“}. Journal of the American Chemical Society, 2011, 133, 20732-20734.	6.6	435

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37	Enhanced ethylene separation and plasticization resistance in polymer membranes incorporating metalâ€“organic framework nanocrystals. Nature Materials, 2016, 15, 845-849.	13.3	413
38	High-temperature magnetic blocking and magneto-structural correlations in a series of dysprosium(<scp>iii</scp>) metallocenium single-molecule magnets. Chemical Science, 2018, 9, 8492-8503.	3.7	405
39	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
40	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
41	Molecular Cobalt Pentapyridine Catalysts for Generating Hydrogen from Water. Journal of the American Chemical Society, 2011, 133, 9212-9215.	6.6	397
42	Broadly Hysteretic H₂ Adsorption in the Microporous Metalâ^'Organic Framework Co(1,4-benzenedipyrazolate). Journal of the American Chemical Society, 2008, 130, 7848-7850.	6.6	396
43	Observation of Cu2+â€“H2 Interactions in a Fully Desolvated Sodalite-Type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2007, 46, 1419-1422.	7.2	395
44	A Solid Lithium Electrolyte via Addition of Lithium Isopropoxide to a Metalâ€“Organic Framework with Open Metal Sites. Journal of the American Chemical Society, 2011, 133, 14522-14525.	6.6	371
45	Magnetic Blocking at 10 K and a Dipolar-Mediated Avalanche in Salts of the Bis(η⁸-cyclooctatetraenide) Complex [Er(COT)₂]^{â^'}. Journal of the American Chemical Society, 2013, 135, 17952-17957.	6.6	346
46	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
47	Exchange Coupling and Magnetic Blocking in Bipyrimidyl Radical-Bridged Dilanthanide Complexes. Journal of the American Chemical Society, 2012, 134, 18546-18549.	6.6	337
48	Evaluation of cation-exchanged zeolite adsorbents for post-combustion carbon dioxide capture. Energy and Environmental Science, 2013, 6, 128-138.	15.6	332
49	Electronic Conductivity, Ferrimagnetic Ordering, and Reductive Insertion Mediated by Organic Mixed-Valence in a Ferric Semiquinoid Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 15703-15711.	6.6	329
50	Nickel(II)â^'Molybdenum(III)â^'Cyanide Clusters:Â Synthesis and Magnetic Behavior of Species Incorporating [(Me3tacn)Mo(CN)3]. Journal of the American Chemical Society, 2002, 124, 2279-2292.	6.6	321
51	Slow Magnetic Relaxation in a Family of Trigonal Pyramidal Iron(II) Pyrrolide Complexes. Journal of the American Chemical Society, 2010, 132, 18115-18126.	6.6	317
52	Highly-Selective and Reversible O₂ Binding in Cr₃(1,3,5-benzenetricarboxylate)₂. Journal of the American Chemical Society, 2010, 132, 7856-7857.	6.6	307
53	Application of a High-Throughput Analyzer in Evaluating Solid Adsorbents for Post-Combustion Carbon Capture via Multicomponent Adsorption of CO₂, N₂, and H₂O. Journal of the American Chemical Society, 2015, 137, 4787-4803.	6.6	305
54	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

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55	CO₂ Dynamics in a Metalâ€“Organic Framework with Open Metal Sites. Journal of the American Chemical Society, 2012, 134, 14341-14344.	6.6	278
56	Giant coercivity and high magnetic blocking temperatures for N2 3â^' radical-bridged dilanthanide complexes upon ligand dissociation. Nature Communications, 2017, 8, 2144.	5.8	273
57	Slow magnetic relaxation in a pseudotetrahedral cobalt(ii) complex with easy-plane anisotropy. Chemical Communications, 2012, 48, 3927.	2.2	272
58	Porous materials for carbon dioxide separations. Nature Materials, 2021, 20, 1060-1072.	13.3	271
59	Slow Magnetic Relaxation in a Trigonal Prismatic Uranium(III) Complex. Journal of the American Chemical Society, 2009, 131, 12558-12559.	6.6	270
60	Techno-economic Analysis of Metalâ€“Organic Frameworks for Hydrogen and Natural Gas Storage. Energy & Fuels, 2017, 31, 2024-2032.	2.5	261
61	Electron delocalization and charge mobility as a function of reduction in a metalâ€“organic framework. Nature Materials, 2018, 17, 625-632.	13.3	255
62	A Dualâ^'Ion Battery Cathode via Oxidative Insertion of Anions in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 13594-13602.	6.6	254
63	A linear cobalt(II) complex with maximal orbital angular momentum from a non-Aufbau ground state. Science, 2018, 362, .	6.0	254
64	Cooperative carbon capture and steam regeneration with tetraamine-appended metalâ€“organic frameworks. Science, 2020, 369, 392-396.	6.0	249
65	Ultrahard magnetism from mixed-valence dilanthanide complexes with metal-metal bonding. Science, 2022, 375, 198-202.	6.0	246
66	Ammonia Capture in Porous Organic Polymers Densely Functionalized with BrÃ¸nsted Acid Groups. Journal of the American Chemical Society, 2014, 136, 2432-2440.	6.6	244
67	A theoretical analysis of chemical bonding, vibronic coupling, and magnetic anisotropy in linear iron(<scp>ii</scp>) complexes with single-molecule magnet behavior. Chemical Science, 2013, 4, 139-156.	3.7	243
68	Observation of a Secondary Slow Relaxation Process for the Field-Induced Single-Molecule Magnet U(H₂BPz₂)₃. Journal of the American Chemical Society, 2010, 132, 7572-7573.	6.6	241
69	A Redox-Switchable Single-Molecule Magnet Incorporating [Re(CN)₇]³⁻. Journal of the American Chemical Society, 2008, 130, 2884-2885.	6.6	235
70	Influence of Pyrazolate vs N-Heterocyclic Carbene Ligands on the Slow Magnetic Relaxation of Homoleptic Trischelate Lanthanide(III) and Uranium(III) Complexes. Journal of the American Chemical Society, 2014, 136, 6056-6068.	6.6	222
71	Multistep N₂ Breathing in the Metalâ^'Organic Framework Co(1,4-benzenedipyrazolate). Journal of the American Chemical Society, 2010, 132, 13782-13788.	6.6	220
72	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

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73	The Mechanism of Carbon Dioxide Adsorption in an Alkylamine-Functionalized Metalâ€“Organic Framework. Journal of the American Chemical Society, 2013, 135, 7402-7405.	6.6	208
74	M₂(m-dobdc) (M = Mg, Mn, Fe, Co, Ni) Metalâ€“Organic Frameworks Exhibiting Increased Charge Density and Enhanced H₂ Binding at the Open Metal Sites. Journal of the American Chemical Society, 2014, 136, 12119-12129.	6.6	207
75	A Crystalline Polyimide Porous Organic Framework for Selective Adsorption of Acetylene over Ethylene. Journal of the American Chemical Society, 2018, 140, 15724-15730.	6.6	207
76	A Diaminopropane-Appended Metalâ€“Organic Framework Enabling Efficient CO₂ Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. Journal of the American Chemical Society, 2017, 139, 13541-13553.	6.6	206
77	Slow magnetic relaxation in the tetrahedral cobalt(II) complexes [Co(EPh)4]2â^' (EO, S, Se). Polyhedron, 2013, 64, 209-217.	1.0	205
78	Controlling Cooperative CO₂ Adsorption in Diamine-Appended Mg₂(dobpdc) Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 10526-10538.	6.6	205
79	Metalâ€“Polypyridyl Catalysts for Electro- and Photochemical Reduction of Water to Hydrogen. Accounts of Chemical Research, 2015, 48, 2027-2036.	7.6	201
80	CO2/N2 separations with mixed-matrix membranes containing Mg2(dobdc) nanocrystals. Energy and Environmental Science, 2013, 6, 3565.	15.6	190
81	A spin transition mechanism for cooperative adsorption in metalâ€“organic frameworks. Nature, 2017, 550, 96-100.	13.7	189
82	[ReCl₄(CN)₂]^{2â^'}: A High Magnetic Anisotropy Building Unit Giving Rise to the Single-Chain Magnets (DMF)₄MReCl₄(CN)₂ (M = Mn, Fe,) Tj ETQq0 0 0 rgBT/Overloc		
83	Synthesis and Magnetism of Neutral, Linear Metallocene Complexes of Terbium(II) and Dysprosium(II). Journal of the American Chemical Society, 2019, 141, 12967-12973.	6.6	186
84	Dilution-Induced Slow Magnetic Relaxation and Anomalous Hysteresis in Trigonal Prismatic Dysprosium(III) and Uranium(III) Complexes. Inorganic Chemistry, 2011, 50, 8484-8489.	1.9	185
85	Record High Hydrogen Storage Capacity in the Metalâ€“Organic Framework Ni₂(m-dobdc) at Near-Ambient Temperatures. Chemistry of Materials, 2018, 30, 8179-8189.	3.2	182
86	Photocatalytic generation of hydrogen from water using a cobalt pentapyridine complex in combination with molecular and semiconductor nanowire photosensitizers. Chemical Science, 2013, 4, 118-124.	3.7	179
87	Hydrogen storage properties and neutron scattering studies of Mg₂(dobdc)â€”a metalâ€“organic framework with open Mg²⁺adsorption sites. Chemical Communications, 2011, 47, 1157-1159.	2.2	178
88	Tristability in a Light-Actuated Single-Molecule Magnet. Journal of the American Chemical Society, 2013, 135, 15880-15884.	6.6	178
89	M₂(m-dobdc) (M = Mn, Fe, Co, Ni) Metalâ€“Organic Frameworks as Highly Selective, High-Capacity Adsorbents for Olefin/Paraffin Separations. Journal of the American Chemical Society, 2017, 139, 15363-15370.	6.6	178
90	Olsalazine-Based Metalâ€“Organic Frameworks as Biocompatible Platforms for H₂ Adsorption and Drug Delivery. Journal of the American Chemical Society, 2016, 138, 10143-10150.	6.6	171

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91	Hydrogen Storage in the Expanded Pore Metalâ€“Organic Frameworks M₂(dobpdc) (M = Mg,) Tj ETQq1 1 0.784314 rgB	3.2	171
92	Catalytic proton reduction with transition metal complexes of the redox-active ligand bpy2PYMe. Chemical Science, 2013, 4, 3934.	3.7	166
93	An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. Energy and Environmental Science, 2018, 11, 2784-2812.	15.6	162
94	Single-Crystal-to-Single-Crystal Metalation of a Metalâ€“Organic Framework: A Route toward Structurally Well-Defined Catalysts. Inorganic Chemistry, 2015, 54, 2995-3005.	1.9	161
95	Understanding CO₂ Dynamics in Metalâ€“Organic Frameworks with Open Metal Sites. Angewandte Chemie - International Edition, 2013, 52, 4410-4413.	7.2	160
96	Design of a Metalâ€“Organic Framework with Enhanced Back Bonding for Separation of N₂ and CH₄. Journal of the American Chemical Society, 2014, 136, 698-704.	6.6	157
97	High-spin ground states via electron delocalization in mixed-valence imidazolate-bridged divanadium complexes. Nature Chemistry, 2010, 2, 362-368.	6.6	154
98	Ion-capture electrodialysis using multifunctional adsorptive membranes. Science, 2021, 372, 296-299.	6.0	152
99	Exchange coupling and magnetic blocking in dilanthanide complexes bridged by the multi-electron redox-active ligand 2,3,5,6-tetra(2-pyridyl)pyrazine. Chemical Science, 2014, 5, 4701-4711.	3.7	151
100	Charge Delocalization and Bulk Electronic Conductivity in the Mixed-Valence Metalâ€“Organic Framework Fe(1,2,3-triazolate)₂(BF₄)_x. Journal of the American Chemical Society, 2018, 140, 8526-8534.	6.6	151
101	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 3412-3422.	6.6	150
102	Large Spinâ€Relaxation Barriers for the Lowâ€Symmetry Organolanthanide Complexes [Cp*₂Ln(BPh₄)] (Cp*=pentamethylcyclopentadienyl; Ln=Tb, Dy). Chemistry - A European Journal, 2014, 20, 9524-9529.	1.7	143
103	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)â€“Triazolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 5594-5602.	6.6	141
104	Recent Progress Towards Light Hydrocarbon Separations Using Metalâ€“Organic Frameworks. Trends in Chemistry, 2019, 1, 159-171.	4.4	141
105	Impact of Metal and Anion Substitutions on the Hydrogen Storage Properties of M-BTT Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 1083-1091.	6.6	139
106	Pore Environment Effects on Catalytic Cyclohexane Oxidation in Expanded Fe₂(dobdc) Analogues. Journal of the American Chemical Society, 2016, 138, 14371-14379.	6.6	137
107	Copper Capture in a Thioether-Functionalized Porous Polymer Applied to the Detection of Wilsonâ€™s Disease. Journal of the American Chemical Society, 2016, 138, 7603-7609.	6.6	137
108	Near-Perfect CO₂/CH₄ Selectivity Achieved through Reversible Guest Templating in the Flexible Metalâ€“Organic Framework Co(bdp). Journal of the American Chemical Society, 2018, 140, 10324-10331.	6.6	136

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109	A Trinuclear Radicalâ€Bridged Lanthanide Singleâ€Molecule Magnet. Angewandte Chemie - International Edition, 2017, 56, 10103-10107.	7.2	127
110	CO2/CH4, CH4/H2 and CO2/CH4/H2 separations at high pressures using Mg2(dobdc). Microporous and Mesoporous Materials, 2012, 151, 481-487.	2.2	123
111	Tetraarylborate polymer networks as single-ion conducting solid electrolytes. Chemical Science, 2015, 6, 5499-5505.	3.7	123
112	Tuning the Adsorption-Induced Phase Change in the Flexible Metalâ€“Organic Framework Co(bdp). Journal of the American Chemical Society, 2016, 138, 15019-15026.	6.6	123
113	A Singleâ€Ion Conducting Borate Network Polymer as a Viable Quasiâ€Solid Electrolyte for Lithium Metal Batteries. Advanced Materials, 2020, 32, e1905771.	11.1	121
114	Selective nitrogen adsorption via backbonding in a metalâ€“organic framework with exposed vanadium sites. Nature Materials, 2020, 19, 517-521.	13.3	121
115	Slow magnetic relaxation in homoleptic trispyrazolylborate complexes of neodymium(iii) and uranium(iii). Dalton Transactions, 2012, 41, 13572.	1.6	119
116	Challenges and opportunities for adsorption-based CO₂ capture from natural gas combined cycle emissions. Energy and Environmental Science, 2019, 12, 2161-2173.	15.6	119
117	Slow Magnetic Relaxation Induced by a Large Transverse Zero-Field Splitting in a Mn^{II}Re^{IV}(CN)₂ Single-Chain Magnet. Journal of the American Chemical Society, 2012, 134, 7521-7529.	6.6	118
118	Actinide-based single-molecule magnets. Dalton Transactions, 2015, 44, 2517-2528.	1.6	118
119	Formation of the layered conductive magnet CrCl2(pyrazine)2 through redox-active coordination chemistry. Nature Chemistry, 2018, 10, 1056-1061.	6.6	108
120	Record High Single-Ion Magnetic Moments Through 4fⁿ5d¹ Electron Configurations in the Divalent Lanthanide Complexes [(C₅H₄SiMe₃)₃Ln]^{â^'}. Journal of the American Chemical Society, 2015, 137, 9855-9860.	6.6	107
121	Elucidating CO₂ Chemisorption in Diamine-Appended Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 18016-18031.	6.6	107
122	Water Enables Efficient CO₂ Capture from Natural Gas Flue Emissions in an Oxidation-Resistant Diamine-Appended Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 13171-13186.	6.6	107
123	Extraction of Lanthanide and Actinide Ions from Aqueous Mixtures Using a Carboxylic Acid-Functionalized Porous Aromatic Framework. ACS Central Science, 2016, 2, 253-265.	5.3	103
124	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
125	New Cyanometalate Building Units: Synthesis and Characterization of [Re(CN)7]3-and [Re(CN)8]3-. Journal of the American Chemical Society, 2003, 125, 2394-2395.	6.6	101
126	Selective, Tunable O₂ Binding in Cobalt(II)â€“Triazolate/Pyrazolate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 7161-7170.	6.6	101

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127	Control of Electronic Structure and Conductivity in Two-Dimensional Metalâ€“Semiquinoid Frameworks of Titanium, Vanadium, and Chromium. Journal of the American Chemical Society, 2018, 140, 3040-3051.	6.6	100
128	MÃ¶ssbauer Spectroscopy as a Probe of Magnetization Dynamics in the Linear Iron(I) and Iron(II) Complexes [Fe(C(SiMe₃)₃)₂]^{1â€“/0}. Inorganic Chemistry, 2013, 52, 13123-13131.	1.9	99
129	Bioinspired design of redox-active ligands for multielectron catalysis: effects of positioning pyrazine reservoirs on cobalt for electro- and photocatalytic generation of hydrogen from water. Chemical Science, 2015, 6, 4954-4972.	3.7	99
130	A mechanistic study of proton reduction catalyzed by a pentapyridine cobalt complex: evidence for involvement of an anation-based pathway. Chemical Science, 2013, 4, 1578.	3.7	98
131	Functionalized Porous Aromatic Frameworks as Highâ€Performance Adsorbents for the Rapid Removal of Boric Acid from Water. Advanced Materials, 2019, 31, e1808027.	11.1	96
132	Twoâ€Coordinate Iron(I) Complex [Fe{N(SiMe₃)₂}₂]^{â^'}: Synthesis, Properties, and Redox Activity. Angewandte Chemie - International Edition, 2015, 54, 245-248.	7.2	95
133	Plasticization-resistant Ni₂(dobdc)/polyimide composite membranes for the removal of CO₂ from natural gas. Energy and Environmental Science, 2016, 9, 2031-2036.	15.6	89
134	Highly effective ammonia removal in a series of BrÃ¸nsted acidic porous polymers: investigation of chemical and structural variations. Chemical Science, 2017, 8, 4399-4409.	3.7	89
135	Overcoming double-step CO₂ adsorption and minimizing water co-adsorption in bulky diamine-appended variants of Mg₂(dobpdc). Chemical Science, 2018, 9, 160-174.	3.7	88
136	Selective Propene Oligomerization with Nickel(II)-Based Metalâ€“Organic Frameworks. ACS Catalysis, 2014, 4, 717-721.	5.5	87
137	Substituent Effects on Exchange Coupling and Magnetic Relaxation in 2,2â€²-Bipyrimidine Radical-Bridged Dilanthanide Complexes. Journal of the American Chemical Society, 2020, 142, 21197-21209.	6.6	86
138	A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. Nature Communications, 2020, 11, 3947.	5.8	86
139	Influence of an Inner-Sphere K⁺ Ion on the Magnetic Behavior of N₂^{3â€“} Radical-Bridged Dilanthanide Complexes Isolated Using an External Magnetic Field. Inorganic Chemistry, 2014, 53, 3099-3107.	1.9	85
140	Confinement of atomically defined metal halide sheets in a metalâ€“organic framework. Nature, 2020, 577, 64-68.	13.7	84
141	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 16000-16012.	6.6	82
142	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
143	Expanding the Chemistry of Molecular U²⁺ Complexes: Synthesis, Characterization, and Reactivity of the {[C₅H₃(SiMe₃)₂]₃U}^{â^'} Anion. Chemistry - A European Journal, 2016, 22, 772-782.	1.7	81
144	Ambient-Temperature Hydrogen Storage via Vanadium(II)-Dihydrogen Complexation in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 6248-6256.	6.6	81

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145	Hydrogen Physisorption on Metalâ€“Organic Framework Linkers and Metalated Linkers: A Computational Study of the Factors That Control Binding Strength. Journal of the American Chemical Society, 2014, 136, 17827-17835.	6.6	80
146	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
147	Electrochemical generation of hydrogen from acetic acid using a molecular molybdenumâ€“oxo catalyst. Energy and Environmental Science, 2012, 5, 7762.	15.6	79
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149	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. Angewandte Chemie - International Edition, 2018, 57, 1933-1938.	7.2	78
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