

Michael L Aubrey

List of Publications by Year in descending order

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180
papers

37,506
citations

6124

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4035

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all docs

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docs citations

188
times ranked

28536
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahard magnetism from mixed-valence dilanthanide complexes with metal-metal bonding. <i>Science</i> , 2022, 375, 198-202.	6.0	246
2	Fluoroarene Separations in Metal-Organic Frameworks with Two Proximal Mg ²⁺ Coordination Sites. <i>Journal of the American Chemical Society</i> , 2021, 143, 1948-1958.	6.6	15
3	Backbonding contributions to small molecule chemisorption in a metal-organic framework with open copper centers. <i>Chemical Science</i> , 2021, 12, 2156-2164.	3.7	21
4	Buffered Coordination Modulation as a Means of Controlling Crystal Morphology and Molecular Diffusion in an Anisotropic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 5044-5052.	6.6	35
5	Isotherm, Kinetic, Process Modeling, and Techno-Economic Analysis of a Diamine-Appended Metal-Organic Framework for CO ₂ Capture Using Fixed Bed Contactors. <i>Energy & Fuels</i> , 2021, 35, 6040-6055.	2.5	37
6	Ambient-Temperature Hydrogen Storage via Vanadium(II)-Dihydrogen Complexation in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 6248-6256.	6.6	81
7	Ion-capture electro dialysis using multifunctional adsorptive membranes. <i>Science</i> , 2021, 372, 296-299.	6.0	152
8	Magnetic ordering through itinerant ferromagnetism in a metal-organic framework. <i>Nature Chemistry</i> , 2021, 13, 594-598.	6.6	40
9	Strong Ferromagnetic Exchange Coupling and Single-Molecule Magnetism in MoS ₄ ³⁻ -Bridged Dilanthanide Complexes. <i>Journal of the American Chemical Society</i> , 2021, 143, 8465-8475.	6.6	27
10	A hard permanent magnet through molecular design. <i>Communications Chemistry</i> , 2021, 4, .	2.0	5
11	Deep CCS: Moving Beyond 90% Carbon Dioxide Capture. <i>Environmental Science & Technology</i> , 2021, 55, 8524-8534.	4.6	32
12	Hysteresis curves reveal the microscopic origin of cooperative CO ₂ adsorption in diamine-appended metal-organic frameworks. <i>Journal of Chemical Physics</i> , 2021, 154, 214704.	1.2	1
13	Porous materials for carbon dioxide separations. <i>Nature Materials</i> , 2021, 20, 1060-1072.	13.3	271
14	Exchange Bias in a Layered Metal-Organic Topological Spin Glass. <i>ACS Central Science</i> , 2021, 7, 1317-1326.	5.3	17
15	Isolation of a triplet benzene dianion. <i>Nature Chemistry</i> , 2021, 13, 1001-1005.	6.6	15
16	Observation of an Intermediate to H ₂ Binding in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 14884-14894.	6.6	32
17	Dependence of Linker Length and Composition on Ionic Conductivity and Lithium Deposition in Single-Ion Conducting Network Polymers. <i>Macromolecules</i> , 2021, 54, 7582-7589.	2.2	11
18	Overcoming Metastable CO ₂ Adsorption in a Bulky Diamine-Appended Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 15258-15270.	6.6	51

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19	Directed assembly of layered perovskite heterostructures as single crystals. <i>Nature</i> , 2021, 597, 355-359.	13.7	58
20	Technoeconomic analysis of metal-organic frameworks for bulk hydrogen transportation. <i>Energy and Environmental Science</i> , 2021, 14, 1083-1094.	15.6	18
21	Strong Magnetocrystalline Anisotropy Arising from Metal-Ligand Covalency in a Metal-Organic Candidate for 2D Magnetic Order. <i>Chemistry of Materials</i> , 2021, 33, 8712-8721.	3.2	8
22	Effect of Spin-Orbit Coupling on Phonon-Mediated Magnetic Relaxation in a Series of Zero-Valent Vanadium, Niobium, and Tantalum Isocyanide Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 18553-18560.	1.9	15
23	A Mechanistic Analysis of Phase Evolution and Hydrogen Storage Behavior in Nanocrystalline Mg(BH ₄) ₂ within Reduced Graphene Oxide. <i>ACS Nano</i> , 2020, 14, 1745-1756.	7.3	29
24	Hysteresis Photomodulation via Single-Crystal-to-Single-Crystal Isomerization of a Photochromic Chain of Dysprosium Single-Molecule Magnets. <i>Journal of the American Chemical Society</i> , 2020, 142, 931-936.	6.6	68
25	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19468-19477.	7.2	58
26	Confinement of atomically defined metal halide sheets in a metal-organic framework. <i>Nature</i> , 2020, 577, 64-68.	13.7	84
27	Metal-Ligand Cooperativity via Exchange Coupling Promotes Iron-Catalyzed Electrochemical CO ₂ Reduction at Low Overpotentials. <i>Journal of the American Chemical Society</i> , 2020, 142, 20489-20501.	6.6	77
28	A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. <i>Nature Communications</i> , 2020, 11, 3947.	5.8	86
29	Cooperative carbon capture and steam regeneration with tetraamine-appended metal-organic frameworks. <i>Science</i> , 2020, 369, 392-396.	6.0	249
30	Selective, High-Temperature O ₂ Adsorption in Chemically Reduced, Redox-Active Iron-Pyrazolate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 14627-14637.	6.6	32
31	Enhanced Thermal Conductivity in a Diamine-Appended Metal-Organic Framework as a Result of Cooperative CO ₂ Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44617-44621.	4.0	10
32	Crystallographic characterization of the metal-organic framework Fe ₂ (bdp) ₃ upon reductive cation insertion. <i>Chemical Science</i> , 2020, 11, 9173-9180.	3.7	7
33	Introduction: Porous Framework Chemistry. <i>Chemical Reviews</i> , 2020, 120, 8037-8038.	23.0	65
34	Two-dimensional, conductive niobium and molybdenum metal-organic frameworks. <i>Chemical Science</i> , 2020, 11, 6690-6700.	3.7	16
35	Computational Study of an Iron(II) Polypyridine Electrocatalyst for CO ₂ Reduction: Key Roles for Intramolecular Interactions in CO ₂ Binding and Proton Transfer. <i>Inorganic Chemistry</i> , 2020, 59, 8146-8160.	1.9	23
36	Self-adjusting binding pockets enhance H ₂ and CH ₄ adsorption in a uranium-based metal-organic framework. <i>Chemical Science</i> , 2020, 11, 6709-6716.	3.7	25

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37	Negative cooperativity upon hydrogen bond-stabilized O ₂ adsorption in a redox-active metal-organic framework. <i>Nature Communications</i> , 2020, 11, 3087.	5.8	36
38	Cooperative Carbon Dioxide Adsorption in Alcoholamine- and Alkoxyalkylamine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2020, 132, 19636-19645.	1.6	5
39	Access to Heteroleptic Fluorido-Cyanido Complexes with a Large Magnetic Anisotropy by Fluoride Abstraction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10306-10310.	7.2	6
40	Effects of Covalency on Anionic Redox Chemistry in Semiquinoid-Based Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 2653-2664.	6.6	75
41	A Single-Ion Conducting Borate Network Polymer as a Viable Quasi-Solid Electrolyte for Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e1905771.	11.1	121
42	Influence of Pore Size on Carbon Dioxide Diffusion in Two Isostructural Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 3570-3576.	3.2	29
43	Coercive Fields Above 6 T in Two Cobalt(II)-Radical Chain Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10610-10618.	7.2	38
44	Selective nitrogen adsorption via backbonding in a metal-organic framework with exposed vanadium sites. <i>Nature Materials</i> , 2020, 19, 517-521.	13.3	121
45	[Uf ₆] ²⁺ : A Molecular Hexafluorido Actinide(IV) Complex with Compensating Spin and Orbital Magnetic Moments. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15650-15654.	7.2	8
46	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. <i>Advanced Materials</i> , 2019, 31, e1904252.	11.1	10
47	Organometallic Chemistry within Metal-Organic Frameworks. <i>Organometallics</i> , 2019, 38, 3389-3391.	1.1	9
48	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. <i>Chemical Science</i> , 2019, 10, 6651-6660.	3.7	30
49	Challenges and opportunities for adsorption-based CO ₂ capture from natural gas combined cycle emissions. <i>Energy and Environmental Science</i> , 2019, 12, 2161-2173.	15.6	119
50	Combined Nuclear Magnetic Resonance and Molecular Dynamics Study of Methane Adsorption in M ₂ (dobdc) Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12286-12295.	1.5	18
51	Chemiresistive Detection of Gaseous Hydrocarbons and Interrogation of Charge Transport in Cu[Ni(2,3-pyrazinedithiolate) ₂] by Gas Adsorption. <i>Journal of the American Chemical Society</i> , 2019, 141, 5005-5013.	6.6	77
52	Functionalized Porous Aromatic Frameworks as High-Performance Adsorbents for the Rapid Removal of Boric Acid from Water. <i>Advanced Materials</i> , 2019, 31, e1808027.	11.1	96
53	Insights into Single-Molecule-Magnet Behavior from the Experimental Electron Density of Linear Two-Coordinate Iron Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 3211-3218.	1.9	28
54	Structural, Electrochemical, and Magnetic Studies of Bulky Uranium(III) and Uranium(IV) Metallocenes. <i>Inorganic Chemistry</i> , 2019, 58, 16629-16641.	1.9	28

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55	Synthesis, Structure, and Magnetism of Tris(amide) [Ln{N(SiMe ₃) ₂ }] ₃ Complexes of the Non-traditional +2 Lanthanide Ions. Chemistry - A European Journal, 2018, 24, 7702-7709.	1.7	64
56	An experimental and computational study of CO ₂ adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe.) Tj ETQq0 0.0 rgBT /Overlock 10	3.7	43
57	Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations. Angewandte Chemie - International Edition, 2018, 57, 4912-4916.	7.2	47
58	Control of Electronic Structure and Conductivity in Two-Dimensional Metal-Semiquinoid Frameworks of Titanium, Vanadium, and Chromium. Journal of the American Chemical Society, 2018, 140, 3040-3051.	6.6	100
59	Increasing M ₂ (dobdc) Loading in Selective Mixed-Matrix Membranes: A Rubber Toughening Approach. Chemistry of Materials, 2018, 30, 1484-1495.	3.2	41
60	Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations. Angewandte Chemie, 2018, 130, 5006-5010.	1.6	8
61	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. Angewandte Chemie - International Edition, 2018, 57, 1933-1938.	7.2	78
62	Engineered Transport in Microporous Materials and Membranes for Clean Energy Technologies. Advanced Materials, 2018, 30, 1704953.	11.1	85
63	Rücktitelbild: Thermally Rearranged Polymer Membranes Containing Tröger's Base Units Have Exceptional Performance for Air Separations (Angew. Chem. 18/2018). Angewandte Chemie, 2018, 130, 5274-5274.	1.6	0
64	Overcoming double-step CO ₂ adsorption and minimizing water co-adsorption in bulky diamine-appended variants of Mg ₂ (dobdc). Chemical Science, 2018, 9, 160-174.	3.7	88
65	High-temperature magnetic blocking and magneto-structural correlations in a series of dysprosium(III) metallocenium single-molecule magnets. Chemical Science, 2018, 9, 8492-8503.	3.7	405
66	A linear cobalt(II) complex with maximal orbital angular momentum from a non-Aufbau ground state. Science, 2018, 362, .	6.0	254
67	Record High Hydrogen Storage Capacity in the Metal-Organic Framework Ni ₂ (im-dobdc) at Near-Ambient Temperatures. Chemistry of Materials, 2018, 30, 8179-8189.	3.2	182
68	Influence of Metal Substitution on the Pressure-Induced Phase Change in Flexible Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2018, 140, 15924-15933.	6.6	62
69	Cooperative adsorption of carbon disulfide in diamine-appended metal-organic frameworks. Nature Communications, 2018, 9, 5133.	5.8	28
70	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
71	Separation of Xenon and Krypton in the Metal-Organic Frameworks M ₂ (dobdc) (M=Co.) Tj ETQq1 1 0.784314 rgBT	1.0	16
72	Formation of the layered conductive magnet CrCl ₂ (pyrazine) ₂ through redox-active coordination chemistry. Nature Chemistry, 2018, 10, 1056-1061.	6.6	108

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73	Enhancement of CO ₂ binding and mechanical properties upon diamine functionalization of M ₂ (dobpdc) metal-organic frameworks. <i>Chemical Science</i> , 2018, 9, 5197-5206.	3.7	39
74	Near-Perfect CO ₂ /CH ₄ Selectivity Achieved through Reversible Guest Templating in the Flexible Metal-Organic Framework Co(bdp). <i>Journal of the American Chemical Society</i> , 2018, 140, 10324-10331.	6.6	136
75	An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. <i>Energy and Environmental Science</i> , 2018, 11, 2784-2812.	15.6	162
76	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018, 17, 625-632.	13.3	255
77	Enabling alternative ethylene production through its selective adsorption in the metal-organic framework Mn ₂ (i ⁻ -dobdc). <i>Energy and Environmental Science</i> , 2018, 11, 2423-2431.	15.6	46
78	Charge Delocalization and Bulk Electronic Conductivity in the Mixed-Valence Metal-Organic Framework Fe(1,2,3-triazolate) ₂ (BF ₄) ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 8526-8534.	6.6	151
79	Techno-economic Analysis of Metal-Organic Frameworks for Hydrogen and Natural Gas Storage. <i>Energy & Fuels</i> , 2017, 31, 2024-2032.	2.5	261
80	A Trinuclear Radical-Bridged Lanthanide Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10103-10107.	7.2	127
81	Magneto-Structural Correlations in Pseudotetrahedral Forms of the [Co(SPh) ₄] ²⁻ Complex Probed by Magnetometry, MCD Spectroscopy, Advanced EPR Techniques, and ab Initio Electronic Structure Calculations. <i>Inorganic Chemistry</i> , 2017, 56, 3102-3118.	1.9	74
82	A Trinuclear Radical-Bridged Lanthanide Single-Molecule Magnet. <i>Angewandte Chemie</i> , 2017, 129, 10237-10241.	1.6	31
83	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
84	Highly effective ammonia removal in a series of Brønsted acidic porous polymers: investigation of chemical and structural variations. <i>Chemical Science</i> , 2017, 8, 4399-4409.	3.7	89
85	A Microporous Amic Acid Polymer for Enhanced Ammonia Capture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33504-33510.	4.0	31
86	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 16000-16012.	6.6	82
87	Calcium Coordination Solids for pH-Triggered Release of Olsalazine. <i>ChemMedChem</i> , 2017, 12, 1739-1742.	1.6	5
88	A spin transition mechanism for cooperative adsorption in metal-organic frameworks. <i>Nature</i> , 2017, 550, 96-100.	13.7	189
89	Ta(CNDipp) ₆ : An Isocyanide Analogue of Hexacarbonyltantalum(0). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10577-10581.	7.2	11
90	Ta(CNDipp) ₆ : An Isocyanide Analogue of Hexacarbonyltantalum(0). <i>Angewandte Chemie</i> , 2017, 129, 10713-10717.	1.6	0

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91	Giant coercivity and high magnetic blocking temperatures for N ₂ 3d ¹ radical-bridged lanthanide complexes upon ligand dissociation. <i>Nature Communications</i> , 2017, 8, 2144.	5.8	273
92	Slow Magnetic Relaxation in a Dysprosium Ammonia Metallocene Complex. <i>Inorganic Chemistry</i> , 2017, 56, 15049-15056.	1.9	35
93	Controlling Cooperative CO ₂ Adsorption in Diamine-Appended Mg ₂ (dobpdc) Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 10526-10538.	6.6	205
94	Perspectives on Neutron Scattering in Lanthanide-Based Single-Molecule Magnets and a Case Study of the Tb ₂ (1/4-N ₂) System. <i>Magnetochemistry</i> , 2016, 2, 45.	1.0	23
95	Synthesis and Characterization of a Tetrapodal NO ₄ ⁴⁻ Ligand and Its Transition Metal Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 7527-7534.	1.9	4
96	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
97	Expanding the Chemistry of Molecular U ²⁺ Complexes: Synthesis, Characterization, and Reactivity of the {[C ₅ H ₃ (SiMe ₃) ₂] ₃ U} Anion. <i>Chemistry - A European Journal</i> , 2016, 22, 772-782.	1.7	81
98	Dinuclear Cobalt Complexes with a Decadentate Ligand Scaffold: Hydrogen Evolution and Oxygen Reduction Catalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 361-369.	1.7	36
99	Extraction of Lanthanide and Actinide Ions from Aqueous Mixtures Using a Carboxylic Acid-Functionalized Porous Aromatic Framework. <i>ACS Central Science</i> , 2016, 2, 253-265.	5.3	103
100	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)-Triazolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 5594-5602.	6.6	141
101	Enhanced ethylene separation and plasticization resistance in polymer membranes incorporating metal-organic framework nanocrystals. <i>Nature Materials</i> , 2016, 15, 845-849.	13.3	413
102	Plasticization-resistant Ni ₂ (dobdc)/polyimide composite membranes for the removal of CO ₂ from natural gas. <i>Energy and Environmental Science</i> , 2016, 9, 2031-2036.	15.6	89
103	Multifaceted magnetization dynamics in the mononuclear complex [Re ^{IV} Cl ₄ (CN) ₂] ²⁺ . <i>Chemical Communications</i> , 2016, 52, 12905-12908.	2.2	30
104	Olsalazine-Based Metal-Organic Frameworks as Biocompatible Platforms for H ₂ Adsorption and Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016, 138, 10143-10150.	6.6	171
105	Cobalt Polypyridyl Complexes as Transparent Solution-Processable Solid-State Charge Transport Materials. <i>Advanced Energy Materials</i> , 2016, 6, 1600874.	10.2	25
106	Homoleptic Two-Coordinate Silylamido Complexes of Chromium(I), Manganese(I), and Cobalt(I). <i>Chemistry - A European Journal</i> , 2016, 22, 1668-1674.	1.7	62
107	Hydrogen Storage in the Expanded Pore Metal-Organic Frameworks M ₂ (dobpdc) (M = Mg, Tj). <i>ETQ</i> , 2016, 1, 0.784314.	3.2	171
108	Understanding Small-Molecule Interactions in Metal-Organic Frameworks: Coupling Experiment with Theory. <i>Advanced Materials</i> , 2015, 27, 5785-5796.	11.1	33

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109	Influence of Solvent-Like Sidechains on the Adsorption of Light Hydrocarbons in Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2015, 21, 18764-18769.	1.7	32
110	Influence of Guest Exchange on the Magnetization Dynamics of Dilanthanide Single-Molecule Magnet Nodes within a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9861-9865.	7.2	268
111	Nickel(ii) and copper(i,ii)-based metal-organic frameworks incorporating an extended tris-pyrazolate linker. <i>CrystEngComm</i> , 2015, 17, 4992-5001.	1.3	23
112	Electronic Conductivity, Ferrimagnetic Ordering, and Reductive Insertion Mediated by Organic Mixed-Valence in a Ferric Semiquinoid Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 15703-15711.	6.6	329
113	Isolation of +2 rare earth metal ions with three anionic carbocyclic rings: bimetallic bis(cyclopentadienyl) reduced arene complexes of La ²⁺ and Ce ²⁺ are four electron reductants. <i>Chemical Science</i> , 2015, 6, 7267-7273.	3.7	38
114	Mechanism of Scrapie Prion Precipitation with Phosphotungstate Anions. <i>ACS Chemical Biology</i> , 2015, 10, 1269-1277.	1.6	33
115	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
116	Cooperative insertion of CO ₂ in diamine-appended metal-organic frameworks. <i>Nature</i> , 2015, 519, 303-308.	13.7	1,026
117	Tetraarylborate polymer networks as single-ion conducting solid electrolytes. <i>Chemical Science</i> , 2015, 6, 5499-5505.	3.7	123
118	Record High Single-Ion Magnetic Moments Through 4f ⁿ 5d ¹ Electron Configurations in the Divalent Lanthanide Complexes [(C ₅ H ₄ SiMe ₃) ₃ Ln] ⁺ . <i>Journal of the American Chemical Society</i> , 2015, 137, 9855-9860.	6.6	107
119	Mechanism of Oxidation of Ethane to Ethanol at Iron(IV)-Oxo Sites in Magnesium-Diluted Fe ₂ (dobdc). <i>Journal of the American Chemical Society</i> , 2015, 137, 5770-5781.	6.6	156
120	Carbohydrate-Mediated Purification of Petrochemicals. <i>Journal of the American Chemical Society</i> , 2015, 137, 5706-5719.	6.6	112
121	Application of a High-Throughput Analyzer in Evaluating Solid Adsorbents for Post-Combustion Carbon Capture via Multicomponent Adsorption of CO ₂ , N ₂ , and H ₂ O. <i>Journal of the American Chemical Society</i> , 2015, 137, 4787-4803.	6.6	305
122	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	13.7	817
123	Synthesis and O ₂ Reactivity of a Titanium(III) Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2015, 54, 10096-10104.	1.9	82
124	A Dual-Ion Battery Cathode via Oxidative Insertion of Anions in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 13594-13602.	6.6	254
125	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. <i>Chemical Science</i> , 2015, 6, 4954-4972.	3.7	99
126	Exchange coupling and magnetic blocking in dilanthanide complexes bridged by the multi-electron redox-active ligand 2,3,5,6-tetra(2-pyridyl)pyrazine. <i>Chemical Science</i> , 2014, 5, 4701-4711.	3.7	151

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127	Ammonia Capture in Porous Organic Polymers Densely Functionalized with Brønsted Acid Groups. <i>Journal of the American Chemical Society</i> , 2014, 136, 2432-2440.	6.6	244
128	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
129	Metal-organic frameworks as solid magnesium electrolytes. <i>Energy and Environmental Science</i> , 2014, 7, 667.	15.6	150
130	Hydrocarbon Separations in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2014, 26, 323-338.	3.2	517
131	Evaluating metal-organic frameworks for natural gas storage. <i>Chemical Science</i> , 2014, 5, 32-51.	3.7	1,038
132	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
133	Lithographic Deposition of Patterned Metal-Organic Framework Coatings Using a Photobase Generator. <i>Angewandte Chemie</i> , 2014, 126, 5667-5671.	1.6	5
134	Single-Ion Magnetic Anisotropy and Isotropic Magnetic Couplings in the Metal-Organic Framework Fe ₂ (dobdc). <i>Inorganic Chemistry</i> , 2013, 52, 9379-9389.	1.9	43
135	Catalytic proton reduction with transition metal complexes of the redox-active ligand bpy ₂ PYMe. <i>Chemical Science</i> , 2013, 4, 3934.	3.7	166
136	Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels. <i>Science</i> , 2013, 340, 960-964.	6.0	589
137	CO ₂ /N ₂ separations with mixed-matrix membranes containing Mg ₂ (dobdc) nanocrystals. <i>Energy and Environmental Science</i> , 2013, 6, 3565.	15.6	190
138	Tristability in a Light-Actuated Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 15880-15884.	6.6	178
139	Slow magnetization dynamics in a series of two-coordinate iron(II) complexes. <i>Chemical Science</i> , 2013, 4, 125-138.	3.7	518
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