Craig M Brown

List of Publications by Year
in descending order

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217	19,285	19477 61	12194 135
papers	citations	h-index	g-index

234	234	234	21427
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Small-pore hydridic frameworks store densely packed hydrogen. Nature Chemistry, 2024, 16, 809-816.	14.3	4
2	Water-enhanced CO₂ capture with molecular salt sodium guanidinate. Journal of Materials Chemistry A, 2024, 12, 16748-16759.	10.5	0
3	Measuring the Influence of CO₂ and Water Vapor on the Dynamics in Polyethylenimine To Understand the Direct Air Capture of CO₂ from the Environment. Chemistry of Materials, 2024, 36, 6130-6143.	7.1	0
4	Neutron Vibrational Spectroscopic Study of the Acetylene: Ammonia (1:1) Cocrystal Relevant to Titan, Saturnâ€™s Moon. Journal of Physical Chemistry A, 2024, 128, 5676-5683.	2.6	1
5	The Influence of Reorientational and Vibrational Dynamics on the Mg²⁺ Conductivity in Mg(BH₄)₂Â·CH₃NH₂. Chemistry of Materials, 2024, 36, 9784-9792.	7.1	0
6	Neutron scattering studies of materials for hydrogen storage. , 2023, , 3-50.		6
7	Flexing of a Metalâ€“Organic Framework upon Hydrocarbon Adsorption: Atomic Level Insights from Neutron Scattering. Chemistry of Materials, 2023, 35, 1387-1394.	7.1	6
8	Multivariate Flexible Framework with High Usable Hydrogen Capacity in a Reduced Pressure Swing Process. Journal of the American Chemical Society, 2023, 145, 8033-8042.	14.6	11
9	Noncryogenic Air Separation Using Aluminum Formate Al(HCOO)₃ (ALF). Journal of the American Chemical Society, 2023, 145, 9850-9856.	14.6	14
10	Quantum disordered ground state in the triangular-lattice magnet NaRuO2. Nature Physics, 2023, 19, 943-949.	11.8	17
11	Exclusive Recognition of CO₂ from Hydrocarbons by Aluminum Formate with Hydrogen-Confined Pore Cavities. Journal of the American Chemical Society, 2023, 145, 11643-11649.	14.6	25
12	Adaptive Pore Opening to Form Tailored Adsorption Sites in a Cooperatively Flexible Framework Enables Record Inverse Propane/Propylene Separation. Journal of the American Chemical Society, 2023, 145, 21955-21965.	14.6	7
13	Hydrogen Storage with Aluminum Formate, ALF: Experimental, Computational, and Technoeconomic Studies. Journal of the American Chemical Society, 2023, 145, 22150-22157.	14.6	6
14	Investigating the non-classical M-H2 bonding in OsClH3(PPh3)3. Journal of Alloys and Compounds, 2022, 894, 162445.	5.7	1
15	Neutron Vibrational Spectroscopic Evidence for Short HÂ·Â·Â·H Contacts in the RNiInH_{1.4;1.6} (R = Ce, La) Metal Hydride. Neutron News, 2022, 33, 7-9.	0.2	1
16	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. Journal of the American Chemical Society, 2022, 144, 5795-5811.	14.6	66
17	Magnetic-Field-Induced Dielectric Anomalies in Cobalt-Containing Garnets. Inorganic Chemistry, 2022, 61, 5452-5458.	4.2	0
18	Lattice Dynamics in the NASICON NaZr₂(PO₄)₃ Solid Electrolyte from Temperature-Dependent Neutron Diffraction, NMR, and Ab Initio Computational Studies. Chemistry of Materials, 2022, 34, 4029-4038.	7.1	8

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19	Turning Molecular Springs into Nano-Shock Absorbers: The Effect of Macroscopic Morphology and Crystal Size on the Dynamic Hysteresis of Water Intrusionâ€“Extrusion into-from Hydrophobic Nanopores. ACS Applied Materials & Interfaces, 2022, 14, 26699-26713.	8.3	13
20	Polyoxocationic antimony oxide cluster with acidic protons. Science Advances, 2022, 8, .	10.9	5
21	Bi₁₂O₁₇Cl₂ with a Sextuple Biï£¿O Layer Composed of Rockâ€Salt and Fluorite Units and its Structural Conversion through Fluorination to Enhance Photocatalytic Activity. Advanced Functional Materials, 2022, 32, .	16.5	18
22	Influence of Inorganic Layer Thickness on Methylammonium Dynamics in Hybrid Perovskite Derivatives. Chemistry of Materials, 2022, 34, 8316-8323.	7.1	7
23	Aluminum formate, Al(HCOO) ₃ : An earth-abundant, scalable, and highly selective material for CO ₂ capture. Science Advances, 2022, 8, .	10.9	51
24	Ambient-Temperature Hydrogen Storage via Vanadium(II)-Dihydrogen Complexation in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 6248-6256.	14.6	105
25	Compact Thermal Actuation by Water and Flexible Hydrophobic Nanopore. ACS Nano, 2021, 15, 9048-9056.	15.3	14
26	Spin Frustration in Double Perovskite Oxides and Oxynitrides: Enhanced Frustration in La₂MnTaO₅N with a Large Octahedral Rotation. Inorganic Chemistry, 2021, 60, 8252-8258.	4.2	9
27	Antiferromagnetic Order and Spin-Canting Transition in the Corrugated Square Net Compound Cu₃(TeO₄)(SO₄)Â·H₂O. Inorganic Chemistry, 2021, 60, 10565-10571.	4.2	4
28	Magnetic structure, excitations and short-range order in honeycomb Na2Ni2TeO6. Journal of Physics Condensed Matter, 2021, 33, 375803.	1.9	3
29	Spin Reorientation in Antiferromagnetic Layered FePt₅P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	4.4	9
30	Enhanced Magnetic Interaction by Face-Shared Hydride Anions in 6H-BaCrO₂H. Inorganic Chemistry, 2021, 60, 11957-11963.	4.2	14
31	Observation of an Intermediate to H₂ Binding in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 14884-14894.	14.6	42
32	The Rietveld Refinement Method: Half of a Century Anniversary. Crystal Growth and Design, 2021, 21, 4821-4822.	3.2	16
33	Magnetic properties and signatures of moment ordering in the triangular lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>KCeO</mml:mi><mml:mn>2</mml:mn></mml:msub><m Physical Review B, 2021, 104, .	3.3	10
34	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021, 143, 2491-2499.	14.6	63
35	Chemical Bonding Governs Complex Magnetism in MnPt₅P. Inorganic Chemistry, 2021, 60, 87-96.	4.2	10
36	Iridate Li8IrO6: An Antiferromagnetic Insulator. Inorganic Chemistry, 2021, 60, 17201-17211.	4.2	2

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37	Structural resolution and mechanistic insight into hydrogen adsorption in flexible ZIF-7. Chemical Science, 2021, 12, 15620-15631.	7.8	23
38	Physical properties of the quasi-two-dimensional square lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.3	12
39	Efficient and tunable one-dimensional charge transport in layered lanthanide metalâ€“organic frameworks. Nature Chemistry, 2020, 12, 131-136.	14.3	232
40	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	13.2	26
41	Elucidating the Structure of the Metalâ€“Organic Framework Ru-HKUST-1. Chemistry of Materials, 2020, 32, 7710-7715.	7.1	9
42	Dynamics of Hydroxyl Anions Promotes Lithium Ion Conduction in Antiperovskite Li₂OHCl. Chemistry of Materials, 2020, 32, 8481-8491.	7.1	57
43	Peritectic phase transition of benzene and acetonitrile into a cocrystal relevant to Titan, Saturn's moon. Chemical Communications, 2020, 56, 13520-13523.	4.2	13
44	Self-adjusting binding pockets enhance H₂ and CH₄ adsorption in a uranium-based metalâ€“organic framework. Chemical Science, 2020, 11, 6709-6716.	7.8	25
45	Special section â€“ Crystallography and properties of metalâ€“organic framework (MOF) compounds. Powder Diffraction, 2020, 35, 2-2.	0.3	0
46	Negative cooperativity upon hydrogen bond-stabilized O2 adsorption in a redox-active metalâ€“organic framework. Nature Communications, 2020, 11, 3087.	13.2	45
47	Inter-Kramers Transitions and Spinâ€“Phonon Couplings in a Lanthanide-Based Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 5218-5230.	4.2	26
48	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. Cell Reports Physical Science, 2020, 1, 100028.	5.8	41
49	Molecular Insight into Fluorocarbon Adsorption in Pore Expanded Metalâ€“Organic Framework Analogs. Journal of the American Chemical Society, 2020, 142, 3002-3012.	14.6	48
50	Understanding How Ligand Functionalization Influences CO₂ and N₂ Adsorption in a Sodalite Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	7.1	19
51	Neutron diffraction structural study of CO₂ binding in mixed-metal CPM-200 metalâ€“organic frameworks. Chemical Communications, 2020, 56, 2574-2577.	4.2	5
52	Certification of Standard Reference Material 660c for powder diffraction. Powder Diffraction, 2020, 35, 17-22.	0.3	19
53	Competing antiferromagnetic-ferromagnetic states in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>d</mml:mi><mml:mn>7</mml:mn></mml:msup></mml:math> Kitaev honeycomb magnet. Physical Review B, 2020, 102, .	3.8	24
54	Long-range magnetic order in hydroxide-layer-doped (Li1â^'xâ^'yFexMnyOD)FeSe. Physical Review Materials, 2020, 4, .	2.5	3

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55	Accessing New Charge-Transfer Complexes by Mechanochemistry: A Tetrathiafulvalene Chloranilic Acid Polymorph Containing Segregated Tetrathiafulvalene Stacks. Crystal Growth and Design, 2019, 19, 4970-4980.	3.2	6
56	Field-tunable quantum disordered ground state in the triangular-lattice antiferromagnet NaYbO2. Nature Physics, 2019, 15, 1058-1064.	11.8	155
57	Dynamical Phase Transitions and Cation Orientation-Dependent Photoconductivity in CH(NH₂)₂PbBr₃. , 2019, 1, 260-264.		38
58	Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. Journal of the American Chemical Society, 2019, 141, 12128-12138.	14.6	81
59	Realization of interlayer ferromagnetic interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MnS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> toward the magnetic Weyl semimetal state. Physical Review B, 2019, 100, .	3.3	87
60	Elusive Valence Transition in Mixed-Valence Sesquioxide Cs₄O₆. Inorganic Chemistry, 2019, 58, 14532-14541.	4.2	6
61	Correction to Dynamical Phase Transitions and Cation Orientation-Dependent Photoconductivity in CH(NH2)2PbBr3. , 2019, 1, 481-481.		0
62	Competing Polar and Antipolar Structures in the Ruddlesdenâ€“Popper Layered Perovskite Li₂SrNb₂O₇. Chemistry of Materials, 2019, 31, 4418-4425.	7.1	31
63	High-Pressure Synthesis of Non-Stoichiometric LixWO3 (0.5 â‰ x â‰ 1.0) with LiNbO3 Structure. Inorganics, 2019, 7, 63.	2.8	9
64	Rattling Behavior in a Simple Perovskite NaWO₃. Inorganic Chemistry, 2019, 58, 6790-6795.	4.2	10
65	Special section: crystallography and properties of metal organic framework (MOF) compounds. Powder Diffraction, 2019, 34, 2-2.	0.3	0
66	New insights into water dynamics of Portland cement paste with nano-additives using quasielastic neutron scattering. Journal of Materials Science, 2019, 54, 4710-4718.	3.7	4
67	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	2.2	29
68	Highâ€Pressure Synthesis of A₂NiO₂Ag₂Se₂ (A=Sr, Ba) with a Highâ€Spin Ni²⁺ in Squareâ€Planar Coordination. Angewandte Chemie - International Edition, 2019, 58, 756-759.	14.8	27
69	Probing Magnetic Excitations in Co^{II} Singleâ€Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1119-1127.	2.2	15
70	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.	2.2	16
71	Deciphering structural and magnetic disorder in the chiral skyrmion host materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mi>x</mml:mi></mml		

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73	In situ powder X-ray crystallography for gas sorption in metalâ€“organic frameworks. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a298-a298.	0.1	0
74	Rapid Microwave Preparation and Composition Tuning of the High-Performance Magnetocalorics (Mn,Fe)₂(P,Si). ACS Applied Materials & Interfaces, 2018, 10, 7208-7213.	8.3	19
75	An experimental and computational study of CO₂adsorption in the sodalite-type M-BTT (M) Tj ETQq1 1 0.784314 rgBT /Ov 4579-4588.	7.8	47
76	Magnetic ordering in a frustrated bow-tie lattice. Journal of Materials Chemistry C, 2018, 6, 4541-4548.	5.6	5
77	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 3412-3422.	14.6	162
78	Selective Hydride Occupation in BaVO_{3â€“x}H_x (0.3 â‰¤ x â‰¤ 0.8) with Face- and Corner-Shared Octahedra. Chemistry of Materials, 2018, 30, 1566-1574.	7.1	26
79	Unravelling Solid-State Redox Chemistry in Li_{1.3}Nb_{0.3}Mn_{0.4}O₂ Single-Crystal Cathode Material. Chemistry of Materials, 2018, 30, 1655-1666.	7.1	87
80	H₂ Adsorption on Cu(I)â€“SSZ-13. Journal of Physical Chemistry C, 2018, 122, 540-548.	3.3	17
81	Proton and ammonia intercalation into layered iron chalcogenides. Chemical Communications, 2018, 54, 6895-6898.	4.2	5
82	Quantum Dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Trapped within Organic Clathrate Cages. Physical Review Letters, 2018, 120, 120402.	8.0	7
83	Imaging appearance of fibrosing diseases of the retroperitoneum: can a definitive diagnosis be made?. Abdominal Radiology, 2018, 43, 1204-1214.	2.2	13
84	Record High Hydrogen Storage Capacity in the Metalâ€“Organic Framework Ni₂(m-dobdc) at Near-Ambient Temperatures. Chemistry of Materials, 2018, 30, 8179-8189.	7.1	200
85	Defect-driven extreme magnetoresistance in an I-Mn-V semiconductor. Applied Physics Letters, 2018, 113, .	3.2	6
86	Certification of Standard Reference Material 1879b respirable cristobalite. Powder Diffraction, 2018, 33, 202-208.	0.3	1
87	Gas adsorption in an isostructural series of pillared coordination cages. Chemical Communications, 2018, 54, 6392-6395.	4.2	19
88	Spinâ€“phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	13.2	99
89	Methane Storage in Paddlewheel-Based Porous Coordination Cages. Journal of the American Chemical Society, 2018, 140, 11153-11157.	14.6	89
90	On the Structureâ€“Property Relationships of Cationâ€Exchanged ZKâ€5 Zeolites for CO₂ Adsorption. ChemSusChem, 2017, 10, 946-957.	7.5	38

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91	Performance of van der Waals Corrected Functionals for Guest Adsorption in the M₂(dobdc) Metalâ€“Organic Frameworks. Journal of Physical Chemistry A, 2017, 121, 4139-4151.	2.6	49
92	Formation of [Cu₂O₂]²⁺ and [Cu₂O]²⁺ toward Câ€“H Bond Activation in Cu-SSZ-13 and Cu-SSZ-39. ACS Catalysis, 2017, 7, 4291-4303.	11.7	207
93	Metalâ€“insulator transition tuned by magnetic field in Bi_{1.7}V₈O₁₆hollandite. Journal of Materials Chemistry C, 2017, 5, 4967-4976.	5.6	2
94	Reversible Capture and Release of Cl₂ and Br₂ with a Redox-Active Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5992-5997.	14.6	105
95	Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metalâ€“Organic Polyhedra. Chemistry of Materials, 2017, 29, 8583-8587.	7.1	74
96	Electronic Conductivity in a Porous Vanadyl Prussian Blue Analogue upon Air Exposure. Inorganic Chemistry, 2017, 56, 12682-12686.	4.2	13
97	Ising-like antiferromagnetism on the octahedral sublattice of a cobalt-containing garnet and the potential for quantum criticality. Physical Review B, 2017, 95, .	3.3	8
98	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> quantum antiferromagnet. Physical Review B, 2017, 95, .	3.3	15
99	Cubic lead perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbMoO</mml:mi><mml:mn>3</mml:mn></mml:msub> with anomalous metallic behavior. Physical Review B, 2017, 95, .	3.3	14
100	Origin of long lifetime of band-edge charge carriers in organicâ€“inorganic lead iodide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7519-7524.	7.6	149
101	Pressure tuning of collapse of helimagnetic structure in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Au</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2017, 96, .	3.3	2
102	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.	14.8	107
103	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie, 2016, 128, 8747-8751.	2.1	24
104	Metastable Layered Cobalt Chalcogenides from Topochemical Deintercalation. Journal of the American Chemical Society, 2016, 138, 16432-16442.	14.6	64
105	Quasi-Elastic Neutron Scattering Studies of Hydrogen Dynamics for Nanoconfined NaAlH₄. Journal of Physical Chemistry C, 2016, 120, 14863-14873.	3.3	9
106	The magnetic transitions and dynamics in the multiferroic Lu0.5Sc0.5FeO3. MRS Advances, 2016, 1, 565-571.	1.0	4
107	High Thermopower with Metallic Conductivity in p-Type Li-Substituted PbPdO₂. Chemistry of Materials, 2016, 28, 3367-3373.	7.1	26
108	The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB9H10. Journal of Solid State Chemistry, 2016, 243, 162-167.	3.0	13

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109	ZnTaO₂N: Stabilized High-Temperature LiNbO₃-type Structure. Journal of the American Chemical Society, 2016, 138, 15950-15955.	14.6	26
110	Highâ€Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. Angewandte Chemie - International Edition, 2016, 55, 9667-9670.	14.8	31
111	Local Jahn-Teller distortions and orbital ordering inBa3Cu1+xSb2â^'xO9investigated by neutron scattering. Physical Review B, 2016, 93, .	3.3	4
112	Hydration-induced spin-glass state in a frustrated Na-Mn-O triangular lattice. Physical Review B, 2016, 93, .	3.3	13
113	Entropy-driven structural transition and kinetic trapping in formamidinium lead iodide perovskite. Science Advances, 2016, 2, e1601650.	10.9	219
114	Three-dimensional protonic conductivity in porous organic cage solids. Nature Communications, 2016, 7, 12750.	13.2	137
115	Tuning the Adsorption-Induced Phase Change in the Flexible Metalâ€"Organic Framework Co(bdp). Journal of the American Chemical Society, 2016, 138, 15019-15026.	14.6	127
116	Adsorption of two gas molecules at a single metal site in a metalâ€"organic framework. Chemical Communications, 2016, 52, 8251-8254.	4.2	47
117	Water dynamics in cement paste at early age prepared with pozzolanic volcanic ash and Ordinary Portland Cement using quasielastic neutron scattering. Cement and Concrete Research, 2016, 86, 55-62.	11.1	30
118	Dynamics of Pyramidal SiH₃^{â€"} Ions in ASiH₃ (A = K and Rb) Investigated with Quasielastic Neutron Scattering. Journal of Physical Chemistry C, 2016, 120, 6369-6376.	3.3	17
119	Improved Catalytic Activity and Stability of a Palladium Pincer Complex by Incorporation into a Metalâ€"Organic Framework. Journal of the American Chemical Society, 2016, 138, 1780-1783.	14.6	146
120	Topochemical Nitridation with Anion Vacancy-Assisted N^{3â€"}/O^{2â€"} Exchange. Journal of the American Chemical Society, 2016, 138, 3211-3217.	14.6	47
121	Hydrogen Storage in the Expanded Pore Metalâ€"Organic Frameworks M₂(dobpdc) (M = Mg,) Tj ETQq1 1 0.784314 rgB	7.1	180
122	MnTaO₂N: Polar LiNbO₃â€type Oxynitride with a Helical Spin Order. Angewandte Chemie - International Edition, 2015, 54, 516-521.	14.8	44
123	Understanding Smallâ€Molecule Interactions in Metalâ€"Organic Frameworks: Coupling Experiment with Theory. Advanced Materials, 2015, 27, 5785-5796.	24.3	35
124	MnTaO₂N: Polar LiNbO₃â€type Oxynitride with a Helical Spin Order. Angewandte Chemie, 2015, 127, 526-531.	2.1	10
125	Oxygen interstitials and vacancies in LaSrGa3O7-based melilites. Journal of Solid State Chemistry, 2015, 230, 309-317.	3.0	20
126	Magnetic Structure and Exchange Interactions in Quasi-One-Dimensional MnCl₂(urea)₂. Inorganic Chemistry, 2015, 54, 11897-11905.	4.2	20

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127	Inducing Ferrimagnetism in Insulating Hollandite Ba_{1.2}Mn₈O₁₆. Chemistry of Materials, 2015, 27, 515-525.	7.1	22
128	Gradual Release of Strongly Bound Nitric Oxide from Fe₂(NO)₂(dobdc). Journal of the American Chemical Society, 2015, 137, 3466-3469.	14.6	84
129	Flexible metal-organic framework compounds: In situ studies for selective CO2 capture. Journal of Alloys and Compounds, 2015, 647, 24-34.	5.7	25
130	Stabilization of cubic Sr₂FeMoO₆ through topochemical reduction. Chemical Communications, 2015, 51, 12201-12204.	4.2	9
131	Methane storage in flexible metalâ€“organic frameworks with intrinsic thermal management. Nature, 2015, 527, 357-361.	36.2	865
132	Rotational dynamics of organic cations in the CH₃NH₃PbI₃perovskite. Physical Chemistry Chemical Physics, 2015, 17, 31278-31286.	2.9	222
133	A labile hydride strategy for the synthesis of heavily nitridized BaTiO3. Nature Chemistry, 2015, 7, 1017-1023.	14.3	119
134	Critical Factors Driving the High Volumetric Uptake of Methane in Cu₃(btc)₂. Journal of the American Chemical Society, 2015, 137, 10816-10825.	14.6	74
135	Evolution of magnetism in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0033.gif"		

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145	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.	14.6	220
146	Surface compression of light adsorbates inside microporous PFA-derived carbons. Carbon, 2013, 60, 538-549.	10.7	34
147	Evaluation of cation-exchanged zeolite adsorbents for post-combustion carbon dioxide capture. Energy and Environmental Science, 2013, 6, 128-138.	32.2	343
148	Chemical spectroscopy using neutrons. Chemical Physics, 2013, 427, 1-2.	2.0	2
149	Structure and spectroscopy of hydrogen adsorbed in a nickel metalâ€“organic framework. Chemical Physics, 2013, 427, 3-8.	2.0	23
150	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.	7.8	409
151	Mn(dca)2(o-phen) {dca=dicyanamide; o-phen=1,10-phenanthroline}: Long-range magnetic order in a low-dimensional Mn-dca polymer. Polyhedron, 2013, 52, 679-688.	2.3	9
152	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. Journal of Physical Chemistry C, 2013, 117, 20116-20126.	3.3	93
153	Hydrogen diffusion in potassium intercalated graphite studied by quasielastic neutron scattering. Journal of Chemical Physics, 2012, 137, 224704.	3.1	5
154	Unconventional, Highly Selective CO₂ Adsorption in Zeolite SSZ-13. Journal of the American Chemical Society, 2012, 134, 1970-1973.	14.6	372
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