

Craig M Brown

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hydrogen Storage in a Microporous Metal-Organic Framework with Exposed Mn ²⁺ -Coordination Sites. <i>Journal of the American Chemical Society</i> , 2006, 128, 16876-16883.	14.6	1,090
2	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	36.2	865
3	High Capacity Hydrogen Adsorption in Cu(II) Tetracarboxylate Framework Materials: The Role of Pore Size, Ligand Functionalization, and Exposed Metal Sites. <i>Journal of the American Chemical Society</i> , 2009, 131, 2159-2171.	14.6	726
4	Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb) ₂ Te ₃ Nanocomposites. <i>Nano Letters</i> , 2010, 10, 3283-3289.	9.5	493
5	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.	14.6	486
6	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.	14.3	416
7	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.	7.8	409
8	Reversible Structural Transition in MIL-53 with Large Temperature Hysteresis. <i>Journal of the American Chemical Society</i> , 2008, 130, 11813-11818.	14.6	408
9	Observation of Cu ₂ -H ₂ Interactions in a Fully Desolvated Sodalite-Type Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1419-1422.	14.8	395
10	Unconventional, Highly Selective CO ₂ Adsorption in Zeolite SSZ-13. <i>Journal of the American Chemical Society</i> , 2012, 134, 1970-1973.	14.6	372
11	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.	7.8	360
12	Evaluation of cation-exchanged zeolite adsorbents for post-combustion carbon dioxide capture. <i>Energy and Environmental Science</i> , 2013, 6, 128-138.	32.2	343
13	Highly-Selective and Reversible O ₂ Binding in Cr ₃ (1,3,5-benzenetricarboxylate) ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 7856-7857.	14.6	311
14	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.	7.8	300
15	Hydrogen Adsorption in a Highly Stable Porous Rare-Earth Metal-Organic Framework: Sorption Properties and Neutron Diffraction Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 9626-9627.	14.6	294
16	Neutron Powder Diffraction Study of D ₂ Sorption in Cu ₃ (1,3,5-benzenetricarboxylate) ₂ . <i>Journal of the American Chemical Society</i> , 2006, 128, 15578-15579.	14.6	266
17	Increasing the Density of Adsorbed Hydrogen with Coordinatively Unsaturated Metal Centers in Metal-Organic Frameworks. <i>Langmuir</i> , 2008, 24, 4772-4777.	3.7	261
18	Metal-Organic Frameworks with Exceptionally High Methane Uptake: Where and How is Methane Stored?. <i>Chemistry - A European Journal</i> , 2010, 16, 5205-5214.	3.9	233

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19	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. <i>Nature Chemistry</i> , 2020, 12, 131-136.	14.3	232
20	Rotational dynamics of organic cations in the $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31278-31286.	2.9	222
21	$\text{M}_2(\text{dobdc})$ (M = Mg, Mn, Fe, Co, Ni) Metal-Organic Frameworks Exhibiting Increased Charge Density and Enhanced H_2 Binding at the Open Metal Sites. <i>Journal of the American Chemical Society</i> , 2014, 136, 12119-12129.	14.6	220
22	Entropy-driven structural transition and kinetic trapping in formamidinium lead iodide perovskite. <i>Science Advances</i> , 2016, 2, e1601650.	10.9	219
23	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.	14.6	215
24	Formation of $[\text{Cu}_2\text{O}]^{2+}$ and $[\text{Cu}_2\text{O}]^{2+}$ toward $\text{C}\text{-H}$ Bond Activation in Cu-SSZ-13 and Cu-SSZ-39. <i>ACS Catalysis</i> , 2017, 7, 4291-4303.	11.7	207
25	Record High Hydrogen Storage Capacity in the Metal-Organic Framework $\text{Ni}_2(\text{dobdc})$ at Near-Ambient Temperatures. <i>Chemistry of Materials</i> , 2018, 30, 8179-8189.	7.1	200
26	Hydrogen storage properties and neutron scattering studies of $\text{Mg}_2(\text{dobdc})$ a metal-organic framework with open Mg^{2+} adsorption sites. <i>Chemical Communications</i> , 2011, 47, 1157-1159.	4.2	182
27	Hydrogen Storage in the Expanded Pore Metal-Organic Frameworks $\text{M}_2(\text{dobpc})$ (M = Mg, Ni) 1.1×10^{-4} g/g	7.1	180
28	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 3412-3422.	14.6	162
29	Design of a Metal-Organic Framework with Enhanced Back Bonding for Separation of N_2 and CH_4 . <i>Journal of the American Chemical Society</i> , 2014, 136, 698-704.	14.6	161
30	Field-tunable quantum disordered ground state in the triangular-lattice antiferromagnet NaYbO_2 . <i>Nature Physics</i> , 2019, 15, 1058-1064.	11.8	155
31	Detection of Hydrogen Spillover in Palladium-Modified Activated Carbon Fibers during Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5886-5890.	3.3	154
32	Origin of long lifetime of band-edge charge carriers in organic-inorganic lead iodide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7519-7524.	7.6	149
33	Improved Catalytic Activity and Stability of a Palladium Pincer Complex by Incorporation into a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 1780-1783.	14.6	146
34	Terahertz spectroscopy of short-chain polypeptides. <i>Chemical Physics Letters</i> , 2003, 375, 337-343.	2.7	145
35	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.	3.3	144
36	Three-dimensional protonic conductivity in porous organic cage solids. <i>Nature Communications</i> , 2016, 7, 12750.	13.2	137

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37	Quantum rotation of hydrogen in single-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2000, 329, 311-316.	2.7	129
38	Tuning the Adsorption-Induced Phase Change in the Flexible Metal-Organic Framework Co(bdp). <i>Journal of the American Chemical Society</i> , 2016, 138, 15019-15026.	14.6	127
39	A labile hydride strategy for the synthesis of heavily nitrized BaTiO ₃ . <i>Nature Chemistry</i> , 2015, 7, 1017-1023.	14.3	119
40	Hydrogen adsorption in HKUST-1: a combined inelastic neutron scattering and first-principles study. <i>Nanotechnology</i> , 2009, 20, 204025.	2.7	113
41	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.	14.8	107
42	Reversible Capture and Release of Cl ₂ and Br ₂ with a Redox-Active Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 5992-5997.	14.6	105
43	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.	14.6	105
44	Spin-phonon couplings in transition metal complexes with slow magnetic relaxation. <i>Nature Communications</i> , 2018, 9, 2572.	13.2	99
45	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20116-20126.	3.3	93
46	Methane Storage in Paddlewheel-Based Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2018, 140, 11153-11157.	14.6	89
47	Unravelling Solid-State Redox Chemistry in Li _{1.3} Nb _{0.3} Mn _{0.4} O ₂ Single-Crystal Cathode Material. <i>Chemistry of Materials</i> , 2018, 30, 1655-1666.	7.1	87
48	Realization of interlayer ferromagnetic interaction in MnS_2 toward the magnetic Weyl semimetal state. <i>Physical Review B</i> , 2019, 100, .	3.3	87
49	Molecular Basis for the High CO ₂ Adsorption Capacity of Chabazite Zeolites. <i>ChemSusChem</i> , 2014, 7, 3031-3038.	7.5	86
50	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.	14.6	84
51	Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 12128-12138.	14.6	81
52	Highly efficient CO ₂ capture by carbonyl-containing ionic liquids through Lewis acid-base and cooperative H ⁺ hydrogen bonding interaction strengthened by the anion. <i>Chemical Communications</i> , 2014, 50, 15041-15044.	4.2	79
53	Hydrogen adsorption in the metal-organic frameworks Fe ₂ (dobdc) and Fe ₂ (O ₂)(dobdc). <i>Dalton Transactions</i> , 2012, 41, 4180.	3.4	78
54	Inelastic neutron scattering of H ₂ adsorbed in HKUST-1. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 385-388.	5.7	74

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55	Critical Factors Driving the High Volumetric Uptake of Methane in Cu ₃ (btc) ₂ . Journal of the American Chemical Society, 2015, 137, 10816-10825.	14.6	74
56	Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metal-Organic Polyhedra. Chemistry of Materials, 2017, 29, 8583-8587.	7.1	74
57	The design of a bismuth-based auxiliary filter for the removal of spurious background scattering associated with filter-analyzer neutron spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 406-413.	1.6	69
58	Metal-assisted hydrogen storage on Pt-decorated single-walled carbon nanohorns. Carbon, 2012, 50, 4953-4964.	10.7	69
59	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
60	Metastable Layered Cobalt Chalcogenides from Topochemical Deintercalation. Journal of the American Chemical Society, 2016, 138, 16432-16442.	14.6	64
61	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
62	A view of dynamics changes in the molten globule-native folding step by quasielastic neutron scattering 1 Edited by P. E. Wright. Journal of Molecular Biology, 2000, 301, 525-536.	4.3	58
63	Role of Cation Size on the Structural Behavior of the Alkali-Metal Dodecahydro-closo-Dodecaborates. Journal of Physical Chemistry C, 2009, 113, 11187-11189.	3.3	58
64	Dynamics of Hydroxyl Anions Promotes Lithium Ion Conduction in Antiperovskite Li ₂ OHCl. Chemistry of Materials, 2020, 32, 8481-8491.	7.1	57
65	Origin and removal of spurious background peaks in vibrational spectra measured by filter-analyzer neutron spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 189-201.	1.6	52
66	Superconductivity in Li _x CsC ₆₀ fullerides. Physical Review B, 1999, 59, R6628-R6630.	3.3	51
67	Neutron Scattering and Spectroscopic Studies of Hydrogen Adsorption in Cr ₃ (BTC) ₂ -A Metal-Organic Framework with Exposed Cr ²⁺ Sites. Journal of Physical Chemistry C, 2011, 115, 8414-8421.	3.3	51
68	Aluminum formate, Al(HCOO) ₃ : An earth-abundant, scalable, and highly selective material for CO ₂ capture. Science Advances, 2022, 8, .	10.9	51
69	Performance of van der Waals Corrected Functionals for Guest Adsorption in the M ₂ (dobdc) Metal-Organic Frameworks. Journal of Physical Chemistry A, 2017, 121, 4139-4151.	2.6	49
70	Molecular Insight into Fluorocarbon Adsorption in Pore Expanded Metal-Organic Framework Analogs. Journal of the American Chemical Society, 2020, 142, 3002-3012.	14.6	48
71	Adsorption of two gas molecules at a single metal site in a metal-organic framework. Chemical Communications, 2016, 52, 8251-8254.	4.2	47
72	Topochemical Nitridation with Anion Vacancy-Assisted N ³⁺ /O ²⁺ Exchange. Journal of the American Chemical Society, 2016, 138, 3211-3217.	14.6	47

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73	An experimental and computational study of CO ₂ adsorption in the sodalite-type M-BTT (M) Tj ETQq1 1 0.784314 rgBT /Ov 4579-4588.	7.8	47
74	Nanoscale structural heterogeneity in Ni-rich half-Heusler TiNiSn. Journal of Applied Physics, 2014, 116, .	2.3	45
75	Negative cooperativity upon hydrogen bond-stabilized O ₂ adsorption in a redox-active metal-organic framework. Nature Communications, 2020, 11, 3087.	13.2	45
76	MnTaO ₂ N: Polar LiNbO ₃ -type Oxynitride with a Helical Spin Order. Angewandte Chemie - International Edition, 2015, 54, 516-521.	14.8	44
77	Effects of Pressure on the Azafullerene (C ₅₉ N) ₂ Molecular Solid to 22 GPa. Journal of the American Chemical Society, 1996, 118, 8715-8716.	14.6	43
78	Observation of an Intermediate to H ₂ Binding in a Metal-Organic Framework. Journal of the American Chemical Society, 2021, 143, 14884-14894.	14.6	42
79	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. Cell Reports Physical Science, 2020, 1, 100028.	5.8	41
80	On the Structure-Property Relationships of Cation-Exchanged ZK ₅ Zeolites for CO ₂ Adsorption. ChemSusChem, 2017, 10, 946-957.	7.5	38
81	Dynamical Phase Transitions and Cation Orientation-Dependent Photoconductivity in CH(NH ₂) ₂ PbBr ₃ . , 2019, 1, 260-264.		38
82	Deciphering structural and magnetic disorder in the chiral skyrmion host materials Co_xM_x		

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91	Micro-channel development and hydrogen adsorption properties in templated microporous carbons containing platinum nanoparticles. Carbon, 2011, 49, 1305-1317.	10.7	31
92	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. Angewandte Chemie - International Edition, 2016, 55, 9667-9670.	14.8	31
93	Competing Polar and Antipolar Structures in the Ruddlesden-Popper Layered Perovskite $\text{Li}_2\text{SrNb}_2\text{O}_7$. Chemistry of Materials, 2019, 31, 4418-4425.	7.1	31
94	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
95	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	2.2	29
96	Quasielastic neutron scattering of NH_3 and BH_3 rotational dynamics in orthorhombic ammonia borane. Chemical Physics Letters, 2008, 459, 85-88.	2.7	27
97	High-Pressure Synthesis of $\text{A}_2\text{NiO}_2\text{Ag}_2\text{Se}_2$ ($\text{A}=\text{Sr}, \text{Ba}$) with a High-Spin Ni^{2+} in Square-Planar Coordination. Angewandte Chemie - International Edition, 2019, 58, 756-759.	14.8	27
98	Solid-State ^{29}Si NMR and Neutron-Diffraction Studies of $\text{Sr}_{0.7}\text{K}_{0.3}\text{SiO}_{2.85}$ Oxide Ion Conductors. Inorganic Chemistry, 2014, 53, 6962-6968.	4.2	26
99	High Thermopower with Metallic Conductivity in <i>p</i> -Type Li-Substituted PbPdO_2 . Chemistry of Materials, 2016, 28, 3367-3373.	7.1	26
100	ZnTaO_2N : Stabilized High-Temperature LiNbO_3 -type Structure. Journal of the American Chemical Society, 2016, 138, 15950-15955.	14.6	26
101	Selective Hydride Occupation in BaVO_3H (0.3 at% H) with Face- and Corner-Shared Octahedra. Chemistry of Materials, 2018, 30, 1566-1574.	7.1	26
102	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	13.2	26
103	Inter-Kramers Transitions and Spin-Phonon Couplings in a Lanthanide-Based Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 5218-5230.	4.2	26
104	Flexible metal-organic framework compounds: In situ studies for selective CO_2 capture. Journal of Alloys and Compounds, 2015, 647, 24-34.	5.7	25
105	Self-adjusting binding pockets enhance H_2 and CH_4 adsorption in a uranium-based metal-organic framework. Chemical Science, 2020, 11, 6709-6716.	7.8	25
106	Exclusive Recognition of CO_2 from Hydrocarbons by Aluminum Formate with Hydrogen-Confined Pore Cavities. Journal of the American Chemical Society, 2023, 145, 11643-11649.	14.6	25
107	Hydrogen Storage and Selective, Reversible O_2 Adsorption in a Metal-Organic Framework with Open Chromium(II) Sites. Angewandte Chemie, 2016, 128, 8747-8751.	2.1	24
108	Competing antiferromagnetic-ferromagnetic states in a Kitaev honeycomb magnet. Physical Review B, 2020, 102, .	11.1	24

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109	Pressure and Temperature Evolution of the Structure of the Superconducting Na ₂ CsC ₆₀ Fulleride. Journal of Solid State Chemistry, 1999, 145, 471-478.	3.0	23
110	Structure and spectroscopy of hydrogen adsorbed in a nickel metal-organic framework. Chemical Physics, 2013, 427, 3-8.	2.0	23
111	Structural resolution and mechanistic insight into hydrogen adsorption in flexible ZIF-7. Chemical Science, 2021, 12, 15620-15631.	7.8	23
112	Pressure dependence of superconductivity in the Na ₂ Rb _{0.5} Cs _{0.5} C ₆₀ fulleride. Physical Review B, 1999, 59, 4439-4444.	3.3	22
113	Inducing Ferrimagnetism in Insulating Hollandite Ba _{1.2} Mn ₈ O ₁₆ . Chemistry of Materials, 2015, 27, 515-525.	7.1	22
114	Kinetic Trapping of D ₂ in MIL-53(Al) Observed Using Neutron Scattering. Journal of Physical Chemistry C, 2014, 118, 18197-18206.	3.3	20
115	Oxygen interstitials and vacancies in LaSrGa ₃ O ₇ -based melilites. Journal of Solid State Chemistry, 2015, 230, 309-317.	3.0	20
116	Magnetic Structure and Exchange Interactions in Quasi-One-Dimensional MnCl ₂ (urea) ₂ . Inorganic Chemistry, 2015, 54, 11897-11905.	4.2	20
117	Incoherent Quasi-elastic Neutron Scattering from Fructose-Water Solutions. Journal of Physical Chemistry B, 2001, 105, 7799-7804.	2.7	19
118	Solid-State Ligand Dynamics in Interpenetrating Mn[N(CN) ₂] ₂ (Pyrazine): A Neutron Spectroscopy Study. Journal of the American Chemical Society, 2002, 124, 12600-12605.	14.6	19
119	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
120	Gas adsorption in an isostructural series of pillared coordination cages. Chemical Communications, 2018, 54, 6392-6395.	4.2	19
121	Understanding How Ligand Functionalization Influences CO ₂ and N ₂ Adsorption in a Sodalite Metal-Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	7.1	19
122	Certification of Standard Reference Material 660c for powder diffraction. Powder Diffraction, 2020, 35, 17-22.	0.3	19
123	Neutron powder diffraction of metal-organic frameworks for hydrogen storage. Pramana - Journal of Physics, 2008, 71, 755-760.	1.8	18
124	Bi ₁₂ O ₁₇ Cl ₂ with a Sextuple Bi ₂ O Layer Composed of Rock-Salt and Fluorite Units and its Structural Conversion through Fluorination to Enhance Photocatalytic Activity. Advanced Functional Materials, 2022, 32, .	16.5	18
125	Quasielastic and inelastic neutron scattering study of the hydration of monoclinic and triclinic tricalcium silicate. Chemical Physics, 2006, 326, 381-389.	2.0	17
126	Dynamics of Pyramidal SiH ₃ ⁺ Ions in ASiH ₃ (A = K and Rb) Investigated with Quasielastic Neutron Scattering. Journal of Physical Chemistry C, 2016, 120, 6369-6376.	3.3	17

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127	H ₂ Adsorption on Cu(I)-SSZ-13. Journal of Physical Chemistry C, 2018, 122, 540-548.	3.3	17
128	Quantum disordered ground state in the triangular-lattice magnet NaRuO ₂ . Nature Physics, 2023, 19, 943-949.	11.8	17
129	Inelastic neutron scattering of H ₂ adsorbed on boron substituted single walled carbon nanotubes. Journal of Alloys and Compounds, 2007, 446-447, 368-372.	5.7	16
130	An <i>In Situ</i> Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodalite-Type Metal-Organic Framework, Cu-BTTri. European Journal of Inorganic Chemistry, 2019, 2019, 1147-1154.	2.2	16
131	The Rietveld Refinement Method: Half of a Century Anniversary. Crystal Growth and Design, 2021, 21, 4821-4822.	3.2	16
132	The Crystalline Enol of 1,3-Cyclohexanedione and Its Complex with Benzene: % Vibrational Spectra, Simulation of Structure and Dynamics and Evidence for Cooperative Hydrogen Bonding. Journal of Physical Chemistry A, 2004, 108, 7356-7363.	2.6	15
133	Redox-Promoting Protein Motions in Rubredoxin. Journal of Physical Chemistry B, 2011, 115, 8925-8936.	2.7	15
134	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an $S=1$ quantum antiferromagnet. Physical Review B, 2017, 95, .	3.3	15
135	Probing Magnetic Excitations in Co ^{II} Single-Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1119-1127.	2.2	15
136	Investigation of the State of Water in Hydrating Layered Sodium Disilicate in Crystalline and Amorphous Forms by Quasi-Elastic Neutron Scattering. Chemistry of Materials, 2004, 16, 5042-5050.	7.1	14
137	Cubic lead perovskite $PbMoO_3$ with anomalous metallic behavior. Physical Review B, 2017, 95, .	3.3	14
138	Compact Thermal Actuation by Water and Flexible Hydrophobic Nanopore. ACS Nano, 2021, 15, 9048-9056.	15.3	14
139	Enhanced Magnetic Interaction by Face-Shared Hydride Anions in 6H-BaCrO ₂ H. Inorganic Chemistry, 2021, 60, 11957-11963.	4.2	14
140	Noncryogenic Air Separation Using Aluminum Formate Al(HCOO) ₃ (ALF). Journal of the American Chemical Society, 2023, 145, 9850-9856.	14.6	14
141	Evolution of magnetism in the $S=1$		

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145	Imaging appearance of fibrosing diseases of the retroperitoneum: can a definitive diagnosis be made?. <i>Abdominal Radiology</i> , 2018, 43, 1204-1214.	2.2	13
146	Peritectic phase transition of benzene and acetonitrile into a cocrystal relevant to Titan, Saturn's moon. <i>Chemical Communications</i> , 2020, 56, 13520-13523.	4.2	13
147	Turning Molecular Springs into Nano-Shock Absorbers: The Effect of Macroscopic Morphology and Crystal Size on the Dynamic Hysteresis of Water Intrusion/Extrusion into/from Hydrophobic Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26699-26713.	8.3	13
148	Physical properties of the quasi-two-dimensional square lattice antiferromagnet BaO_7 . <i>Physical Review B</i> , 2021, 104, .	3.3	12
149	Neutron diffraction study of the polymeric structure of. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 371-381.	1.9	11
150	Multivariate Flexible Framework with High Usable Hydrogen Capacity in a Reduced Pressure Swing Process. <i>Journal of the American Chemical Society</i> , 2023, 145, 8033-8042.	14.6	11
151	Inelastic neutron scattering from confined molecular oxygen. <i>Physical Review B</i> , 2008, 78, .	3.3	10
152	MnTaO_2N : Polar LiNbO_3 -type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , 2015, 127, 526-531.	2.1	10
153	Rattling Behavior in a Simple Perovskite NaWO_3 . <i>Inorganic Chemistry</i> , 2019, 58, 6790-6795.	4.2	10
154	Magnetic properties and signatures of moment ordering in the triangular lattice antiferromagnet KCeO_2 . <i>Physical Review B</i> , 2021, 104, .	3.3	10
155	Chemical Bonding Governs Complex Magnetism in MnPt_5P . <i>Inorganic Chemistry</i> , 2021, 60, 87-96.	4.2	10
156	$\text{Mn}(\text{dca})_2(\text{o-phen})$ {dca=dicyanamide; o-phen=1,10-phenanthroline}: Long-range magnetic order in a low-dimensional Mn-dca polymer. <i>Polyhedron</i> , 2013, 52, 679-688.	2.3	9
157	Stabilization of cubic $\text{Sr}_2\text{FeMoO}_6$ through topochemical reduction. <i>Chemical Communications</i> , 2015, 51, 12201-12204.	4.2	9
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