Craig M Brown

List of Publications by Year
in descending order

239 papers	23,540 citations	16791 66 h-index	8878 150 g-index
247 all docs	247 docs citations	247 times ranked	23902 citing authors

#	Article	IF	Citations
1	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.	0.1	1
2	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. Journal of the American Chemical Society, 2022, 144, 5795-5811.	6.6	50
3	Magnetic-Field-Induced Dielectric Anomalies in Cobalt-Containing Garnets. Inorganic Chemistry, 2022, 61, 5452-5458.	1.9	0
4	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.	3.2	6
5	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.	4.0	10
6	Polyoxocationic antimony oxide cluster with acidic protons. Science Advances, 2022, 8, .	4.7	5
7	Neutron scattering studies of materials for hydrogen storage. , 2021, , .		6
8	NÃ©el ordering in the distorted honeycomb pyrosilicate: Câ€“Er2Si2O7. Journal of Physics Condensed Matter, 2021, 33, 125804.	0.7	2
9	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
10	Compact Thermal Actuation by Water and Flexible Hydrophobic Nanopore. ACS Nano, 2021, 15, 9048-9056.	7.3	10
11	Spin Frustration in Double Perovskite Oxides and Oxynitrides: Enhanced Frustration in La₂MnTaO₅N with a Large Octahedral Rotation. Inorganic Chemistry, 2021, 60, 8252-8258.	1.9	7
12	Antiferromagnetic Order and Spin-Canting Transition in the Corrugated Square Net Compound Cu₃(TeO₄)(SO₄)Â·H₂O. Inorganic Chemistry, 2021, 60, 10565-10571.	1.9	3
13	Magnetic structure, excitations and short-range order in honeycomb Na2Ni2TeO6. Journal of Physics Condensed Matter, 2021, 33, 375803.	0.7	3
14	Spin Reorientation in Antiferromagnetic Layered FePt₅P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	2.0	8
15	Enhanced Magnetic Interaction by Face-Shared Hydride Anions in 6H-BaCrO2H. Inorganic Chemistry, 2021, 60, 11957-11963.	1.9	12
16	Observation of an Intermediate to H₂ Binding in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 14884-14894.	6.6	32
17	The Rietveld Refinement Method: Half of a Century Anniversary. Crystal Growth and Design, 2021, 21, 4821-4822.	1.4	12
18	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, .	1.1	9

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19	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021, 143, 2491-2499.	6.6	52
20	Chemical Bonding Governs Complex Magnetism in MnPt₅P. Inorganic Chemistry, 2021, 60, 87-96.	1.9	9
21	Investigating the non-classical M-H2 bonding in OsClH3(PPh3)3. Journal of Alloys and Compounds, 2021, 894, 162445.	2.8	1
22	Iridate Li8IrO6: An Antiferromagnetic Insulator. Inorganic Chemistry, 2021, 60, 17201-17211.	1.9	1
23	Structural resolution and mechanistic insight into hydrogen adsorption in flexible ZIF-7. Chemical Science, 2021, 12, 15620-15631.	3.7	18
24	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:r mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	1.1	9
25	Efficient and tunable one-dimensional charge transport in layered lanthanide metalâ€“organic frameworks. Nature Chemistry, 2020, 12, 131-136.	6.6	214
26	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	5.8	20
27	Elucidating the Structure of the Metalâ€“Organic Framework Ru-HKUST-1. Chemistry of Materials, 2020, 32, 7710-7715.	3.2	9
28	Dynamics of Hydroxyl Anions Promotes Lithium Ion Conduction in Antiperovskite Li₂OHCl. Chemistry of Materials, 2020, 32, 8481-8491.	3.2	53
29	Peritectic phase transition of benzene and acetonitrile into a cocrystal relevant to Titan, Saturn's moon. Chemical Communications, 2020, 56, 13520-13523.	2.2	11
30	Self-adjusting binding pockets enhance H₂ and CH₄ adsorption in a uranium-based metalâ€“organic framework. Chemical Science, 2020, 11, 6709-6716.	3.7	25
31	Special section â€“ Crystallography and properties of metalâ€“organic framework (MOF) compounds. Powder Diffraction, 2020, 35, 2-2.	0.4	0
32	Negative cooperativity upon hydrogen bond-stabilized O2 adsorption in a redox-active metalâ€“organic framework. Nature Communications, 2020, 11, 3087.	5.8	36
33	Inter-Kramers Transitions and Spinâ€“Phonon Couplings in a Lanthanide-Based Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 5218-5230.	1.9	25
34	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. Cell Reports Physical Science, 2020, 1, 100028.	2.8	37
35	Molecular Insight into Fluorocarbon Adsorption in Pore Expanded Metalâ€“Organic Framework Analogs. Journal of the American Chemical Society, 2020, 142, 3002-3012.	6.6	44
36	Understanding How Ligand Functionalization Influences CO2 and N2 Adsorption in a Sodalite Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	3.2	19

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37	Neutron diffraction structural study of CO₂ binding in mixed-metal CPM-200 metalâ€“organic frameworks. Chemical Communications, 2020, 56, 2574-2577.	2.2	5
38	Certification of Standard Reference Material 660c for powder diffraction. Powder Diffraction, 2020, 35, 17-22.	0.4	16
39	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 Kitaev honeycomb magnet. Physical Review B, 2020, 102, .	1.1	24
40	Long-range magnetic order in hydroxide-layer-doped (Li1âˆ’xâˆ’yFexMnyOD)FeSe. Physical Review Materials, 2020, 4, .	0.9	3
41	Accessing New Charge-Transfer Complexes by Mechanochemistry: A Tetrathiafulvalene Chloranilic Acid Polymorph Containing Segregated Tetrathiafulvalene Stacks. Crystal Growth and Design, 2019, 19, 4970-4980.	1.4	6
42	Field-tunable quantum disordered ground state in the triangular-lattice antiferromagnet NaYbO2. Nature Physics, 2019, 15, 1058-1064.	6.5	138
43	Dynamical Phase Transitions and Cation Orientation-Dependent Photoconductivity in CH(NH₂)₂PbBr₃. , 2019, 1, 260-264.		35
44	Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. Journal of the American Chemical Society, 2019, 141, 12128-12138.	6.6	73
45	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, .	1.1	81
46	Elusive Valence Transition in Mixed-Valence Sesquioxide Cs₄O₆. Inorganic Chemistry, 2019, 58, 14532-14541.	1.9	6
47	Correction to Dynamical Phase Transitions and Cation Orientation-Dependent Photoconductivity in CH(NH2)2PbBr3. , 2019, 1, 481-481.		0
48	Competing Polar and Antipolar Structures in the Ruddlesdenâ€“Popper Layered Perovskite Li₂SrNb₂O₇. Chemistry of Materials, 2019, 31, 4418-4425.	3.2	28
49	High-Pressure Synthesis of Non-Stoichiometric LixWO3 (0.5 â‰¤ x â‰¤ 1.0) with LiNbO3 Structure. Inorganics, 2019, 7, 63.	1.2	9
50	Rattling Behavior in a Simple Perovskite NaWO₃. Inorganic Chemistry, 2019, 58, 6790-6795.	1.9	9
51	Special section: crystallography and properties of metal organic framework (MOF) compounds. Powder Diffraction, 2019, 34, 2-2.	0.4	0
52	Probing Magnetic Excitations in CoII Single-Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1055-1055.	1.0	0
53	New insights into water dynamics of Portland cement paste with nano-additives using quasielastic neutron scattering. Journal of Materials Science, 2019, 54, 4710-4718.	1.7	3
54	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	1.0	29

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55	High‐Pressure Synthesis of A₂NiO₂Ag₂Se₂ (A=Sr, Ba) with a High‐Spin Ni²⁺ in Square‐Planar Coordination. Angewandte Chemie - International Edition, 2019, 58, 756-759.	7.2	25
56	Probing Magnetic Excitations in Co^{II} Single‐Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1119-1127.	1.0	14
57	An In‐Situ 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.	1.0	15
58	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:m		

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73	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
74	Defect-driven extreme magnetoresistance in an I-Mn-V semiconductor. Applied Physics Letters, 2018, 113, 122105.	1.5	6
75	Certification of Standard Reference Material 1879b respirable cristobalite. Powder Diffraction, 2018, 33, 202-208.	0.4	1
76	Gas adsorption in an isostructural series of pillared coordination cages. Chemical Communications, 2018, 54, 6392-6395.	2.2	19
77	Spinâ€“phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	5.8	93
78	Methane Storage in Paddlewheel-Based Porous Coordination Cages. Journal of the American Chemical Society, 2018, 140, 11153-11157.	6.6	84
79	On the Structureâ€“Property Relationships of Cationâ€Exchanged ZKâ€5 Zeolites for CO₂ Adsorption. ChemSusChem, 2017, 10, 946-957.	3.6	36
80	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.	1.1	41
81	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.	5.5	195
82	Metalâ€“insulator transition tuned by magnetic field in Bi_{1.7}V₈O₁₆hollandite. Journal of Materials Chemistry C, 2017, 5, 4967-4976.	2.7	2
83	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.	6.6	95
84	Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metalâ€“Organic Polyhedra. Chemistry of Materials, 2017, 29, 8583-8587.	3.2	68
85	Electronic Conductivity in a Porous Vanadyl Prussian Blue Analogue upon Air Exposure. Inorganic Chemistry, 2017, 56, 12682-12686.	1.9	13
86	Ising-like antiferromagnetism on the octahedral sublattice of a cobalt-containing garnet and the potential for quantum criticality. Physical Review B, 2017, 95, .	1.1	8
87	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, .	1.1	15
88	Cubic lead perovskite PbMoO3 with anomalous metallic behavior. Physical Review B, 2017, 95, .	1.1	13
89	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.	3.3	137
90	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></mml: Physical Review B, 2017, 96, .	1.1	2

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91	Structural studies of small molecules adsorbed in MOFs. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1031-C1031.	0.0	0
92	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
93	Hydrogen Storage and Selective, Reversible O₂ Adsorption in a Metalâ€“Organic Framework with Open Chromium(II) Sites. Angewandte Chemie, 2016, 128, 8747-8751.	1.6	23
94	Metastable Layered Cobalt Chalcogenides from Topochemical Deintercalation. Journal of the American Chemical Society, 2016, 138, 16432-16442.	6.6	61
95	Quasi-Elastic Neutron Scattering Studies of Hydrogen Dynamics for Nanoconfined NaAlH₄. Journal of Physical Chemistry C, 2016, 120, 14863-14873.	1.5	7
96	The magnetic transitions and dynamics in the multiferroic Lu0.5Sc0.5FeO3. MRS Advances, 2016, 1, 565-571.	0.5	4
97	High Thermopower with Metallic Conductivity in p-Type Li-Substituted PbPdO₂. Chemistry of Materials, 2016, 28, 3367-3373.	3.2	25
98	Outlook and challenges for hydrogen storage in nanoporous materials. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	129
99	The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB9H10. Journal of Solid State Chemistry, 2016, 243, 162-167.	1.4	12
100	Strong correlations between vacancy and magnetic ordering in superconductingK0.8Fe2â^'ySe2. Physical Review B, 2016, 94, .	1.1	4
101	ZnTaO₂N: Stabilized High-Temperature LiNbO₃-type Structure. Journal of the American Chemical Society, 2016, 138, 15950-15955.	6.6	26
102	Physical properties of theCe2MAl7Ge4heavy-fermion compounds(M=Co,Ir,Ni,Pd). Physical Review B, 2016, 93, .	1.1	8
103	Highâ€Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. Angewandte Chemie - International Edition, 2016, 55, 9667-9670.	7.2	31
104	Local Jahn-Teller distortions and orbital ordering inBa3Cu1+xSb2â^'xO9investigated by neutron scattering. Physical Review B, 2016, 93, .	1.1	4
105	Hydration-induced spin-glass state in a frustrated Na-Mn-O triangular lattice. Physical Review B, 2016, 93, .	1.1	11
106	Entropy-driven structural transition and kinetic trapping in formamidinium lead iodide perovskite. Science Advances, 2016, 2, e1601650.	4.7	203
107	Three-dimensional protonic conductivity in porous organic cage solids. Nature Communications, 2016, 7, 12750.	5.8	133
108	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

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109	Adsorption of two gas molecules at a single metal site in a metalâ€“organic framework. Chemical Communications, 2016, 52, 8251-8254.	2.2	45
110	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.	4.6	29
111	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.	1.5	17
112	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.	6.6	141
113	Topochemical Nitridation with Anion Vacancy-Assisted N^{3â€“}/O^{2â€“} Exchange. Journal of the American Chemical Society, 2016, 138, 3211-3217.	6.6	47
114	Hydrogen Storage in the Expanded Pore Metalâ€“Organic Frameworks M₂(dobpdc) (M = Mg,) Tj ETQq0 0 0 rgBT /Overlock	3.2	171
115	MnTaO₂N: Polar LiNbO₃â€type Oxynitride with a Helical Spin Order. Angewandte Chemie - International Edition, 2015, 54, 516-521.	7.2	39
116	Observation of drastic change of generalized phonon density-of-states in nanostructured half-Heusler using inelastic neutron scattering. Applied Physics Letters, 2015, 107, 213901.	1.5	3
117	Adsorption of hydrocarbons in the porous borohydride frameworkÂÎ³-Mg(BH4)2. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s275-s275.	0.0	0
118	Understanding Smallâ€Molecule Interactions in Metalâ€“Organic Frameworks: Coupling Experiment with Theory. Advanced Materials, 2015, 27, 5785-5796.	11.1	33
119	Oxygen interstitials and vacancies in LaSrGa3O7-based melilites. Journal of Solid State Chemistry, 2015, 230, 309-317.	1.4	20
120	Magnetic Structure and Exchange Interactions in Quasi-One-Dimensional MnCl₂(urea)₂. Inorganic Chemistry, 2015, 54, 11897-11905.	1.9	20
121	Inducing Ferrimagnetism in Insulating Hollandite Ba_{1.2}Mn₈O₁₆. Chemistry of Materials, 2015, 27, 515-525.	3.2	22
122	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
123	Flexible metal-organic framework compounds: In situ studies for selective CO2 capture. Journal of Alloys and Compounds, 2015, 647, 24-34.	2.8	25
124	Stabilization of cubic Sr₂FeMoO₆ through topochemical reduction. Chemical Communications, 2015, 51, 12201-12204.	2.2	9
125	Methane storage in flexible metalâ€“organic frameworks with intrinsic thermal management. Nature, 2015, 527, 357-361.	13.7	817
126	Rotational dynamics of organic cations in the CH₃NH₃PbI₃perovskite. Physical Chemistry Chemical Physics, 2015, 17, 31278-31286.	1.3	212

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127	A labile hydride strategy for the synthesis of heavily nitridized BaTiO3. Nature Chemistry, 2015, 7, 1017-1023.	6.6	118
128	Critical Factors Driving the High Volumetric Uptake of Methane in Cu₃(btc)₂. Journal of the American Chemical Society, 2015, 137, 10816-10825.	6.6	73
129	Evolution of magnetism in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0033.gif"		

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145	Chemical spectroscopy using neutrons. Chemical Physics, 2013, 427, 1-2.	0.9	2
146	Structure and spectroscopy of hydrogen adsorbed in a nickel metalâ€“organic framework. Chemical Physics, 2013, 427, 3-8.	0.9	23
147	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
148	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.	1.0	8
149	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. Journal of Physical Chemistry C, 2013, 117, 20116-20126.	1.5	92
150	Muon spin relaxation and electron/neutron diffraction studies of BaTi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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163	Neutron Scattering and Spectroscopic Studies of Hydrogen Adsorption in Cr₃(BTC)₂â€"A Metalâ^'Organic Framework with Exposed Cr²⁺ Sites. Journal of Physical Chemistry C, 2011, 115, 8414-8421.	1.5	50
164	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
165	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
166	Micro-channel development and hydrogen adsorption properties in templated microporous carbons containing platinum nanoparticles. Carbon, 2011, 49, 1305-1317.	5.4	30
167	Low-energy magnetic excitations in Co/CoO core/shell nanoparticles. Physical Review B, 2011, 83, .	1.1	18
168	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
169	Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb)₂Te₃ Nanocomposites. Nano Letters, 2010, 10, 3283-3289.	4.5	484
170	Metalâ€"Organic Frameworks with Exceptionally High Methane Uptake: Where and How is Methane Stored?. Chemistry - A European Journal, 2010, 16, 5205-5214.	1.7	227
171	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
172	DAVE: A Comprehensive Software Suite for the Reduction, Visualization, and Analysis of Low Energy Neutron Spectroscopic Data. Journal of Research of the National Institute of Standards and Technology, 2009, 114, 341.	0.4	786
173	User Facilities: The Education of New Neutron Users. , 2009, , .		1
174	Adsorption and melting of hydrogen in potassium-intercalated graphite. Physical Review B, 2009, 79, .	1.1	32
175	Neutron scattering evidence for isolated spin-12ladders in(C5D12N)2CuBr4. Physical Review B, 2009, 80, .	1.1	31
176	Hydrogen adsorption in HKUST-1: a combined inelastic neutron scattering and first-principles study. Nanotechnology, 2009, 20, 204025.	1.3	112
177	One-Dimensional Magnetic Fluctuations in the Spin-2 Triangular LatticeÎ±â^'NaMnO2. Physical Review Letters, 2009, 103, 077202.	2.9	63
178	Detection of Hydrogen Spillover in Palladium-Modified Activated Carbon Fibers during Hydrogen Adsorption. Journal of Physical Chemistry C, 2009, 113, 5886-5890.	1.5	151
179	Role of Cation Size on the Structural Behavior of the Alkali-Metal Dodecahydro-closo-Dodecaborates. Journal of Physical Chemistry C, 2009, 113, 11187-11189.	1.5	55
180	High Capacity Hydrogen Adsorption in Cu(II) Tetracarboxylate Framework Materials: The Role of Pore Size, Ligand Functionalization, and Exposed Metal Sites. Journal of the American Chemical Society, 2009, 131, 2159-2171.	6.6	723

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181	Neutron powder diffraction of metal-organic frameworks for hydrogen storage. Pramana - Journal of Physics, 2008, 71, 755-760.	0.9	17
182	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.	0.7	69
183	Quasielastic neutron scattering of â€“NH3 and â€“BH3 rotational dynamics in orthorhombic ammonia borane. Chemical Physics Letters, 2008, 459, 85-88.	1.2	27
184	Reversible Structural Transition in MIL-53 with Large Temperature Hysteresis. Journal of the American Chemical Society, 2008, 130, 11813-11818.	6.6	402
185	Hydrogen Adsorption in a Highly Stable Porous Rare-Earth Metal-Organic Framework: Sorption Properties and Neutron Diffraction Studies. Journal of the American Chemical Society, 2008, 130, 9626-9627.	6.6	294
186	Inelastic neutron scattering from confined molecular oxygen. Physical Review B, 2008, 78, .	1.1	10
187	Increasing the Density of Adsorbed Hydrogen with Coordinatively Unsaturated Metal Centers in Metalâ^'Organic Frameworks. Langmuir, 2008, 24, 4772-4777.	1.6	258
188	Crystalline Electric Field as a Probe for Long-Range Antiferromagnetic Order and Superconducting State of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeFeAsO</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mathvariant="normal">F</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 217002.	7.9	56
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