Andrew Goodwin

List of Publications by Year
in descending order

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154 papers	9,439 citations	44069 48 h-index	40979 93 g-index
175 all docs	175 docs citations	175 times ranked	8550 citing authors

#	Article	IF	Citations
1	Efficient fitting of single-crystal diffuse scattering in interaction space: a mean-field approach. IUCrJ, 2022, 9, 21-30.	2.2	1
2	Magnetic structure and exchange interactions in the Heisenberg pyrochlore antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Gd</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Pt</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:math>. Physical Review B, 2022, 105, .	3.2	4
3	Geometric Frustration on the Trillium Lattice in a Magnetic Metal-Organic Framework. Physical Review Letters, 2022, 128, 177201.	7.8	10
4	Interplay of thermal diffuse scattering and correlated compositional disorder in KCl_{1â€“x}Br_x. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 385-391.	1.1	2
5	Uncovering the Interplay of Competing Distortions in the Prussian Blue Analogue K₂Cu[Fe(CN)₆]. Chemistry of Materials, 2022, 34, 5000-5008.	6.7	10
6	Function from configurational degeneracy in disordered framework materials. Faraday Discussions, 2021, 225, 241-254.	3.2	9
7	Mechanisms for collective inversion-symmetry breaking in dabconium perovskite ferroelectrics. Journal of Materials Chemistry C, 2021, 9, 2706-2711.	5.5	14
8	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	27.5	109
9	Correlated disorder in metalâ€“organic frameworks. CrystEngComm, 2021, 23, 2915-2922.	2.6	15
10	Hybrid Perovskites, Metalâ€“Organic Frameworks, and Beyond: Unconventional Degrees of Freedom in Molecular Frameworks. Accounts of Chemical Research, 2021, 54, 1288-1297.	15.6	29
11	Spin-ice physics in cadmium cyanide. Nature Communications, 2021, 12, 2272.	12.8	7
12	Adaptive response of a metalâ€“organic framework through reversible disorderâ€“disorder transitions. Nature Chemistry, 2021, 13, 568-574.	13.6	53
13	Lithiation phase behaviors of metal oxide anodes and extra capacities. Cell Reports Physical Science, 2021, 2, 100543.	5.6	6
14	Non-equilibrium metal oxides via reconversion chemistry in lithium-ion batteries. Nature Communications, 2021, 12, 561.	12.8	27
15	Polymethylaluminoxane organic frameworks (sMAOF) â€“ highly active supports for slurry phase ethylene polymerisation. Catalysis Science and Technology, 2021, 11, 5472-5483.	4.1	4
16	Single-step synthesis and interface tuning of coreâ€“shell metalâ€“organic framework nanoparticles. Chemical Science, 2021, 12, 4494-4502.	7.4	11
17	Extracting interface correlations from the pair distribution function of composite materials. Nanoscale, 2021, 13, 13220-13224.	5.6	10
18	Negative X-ray expansion in cadmium cyanide. Materials Horizons, 2021, 8, 1446-1453.	12.2	11

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19	Structural complexity in Prussian blue analogues. Materials Horizons, 2021, 8, 3178-3186.	12.2	44
20	Perspectives for next generation lithium-ion battery cathode materials. APL Materials, 2021, 9, .	5.1	44
21	Recovering local structure information from high-pressure total scattering experiments. Journal of Applied Crystallography, 2021, 54, 1546-1554.	4.5	5
22	Suppressed-moment 2-k order in the canonical frustrated antiferromagnet Gd2Ti2O7. Npj Quantum Materials, 2021, 6, .	5.2	10
23	Understanding the geometric diversity of inorganic and hybrid frameworks through structural coarse-graining. Chemical Science, 2020, 11, 12580-12587.	7.4	13
24	Designing disorder into crystalline materials. Nature Reviews Chemistry, 2020, 4, 657-673.	30.2	93
25	Ring structure of selected two-dimensional procrystalline lattices. Physical Review E, 2020, 102, 062308.	2.1	5
26	Filling vacancies in a Prussian blue analogue using mechanochemical post-synthetic modification. Chemical Communications, 2020, 56, 7873-7876.	4.1	15
27	Effect of Extra-Framework Cations on Negative Linear Compressibility and High-Pressure Phase Transitions: A Study of KCd[Ag(CN)₂]₃. Journal of Physical Chemistry C, 2020, 124, 6896-6906.	3.1	5
28	Anharmonicity and scissoring modes in the negative thermal expansion materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ScF</mml:mi><mml:mn>3</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaZrF</mml:mi><mml:mn>6</mml:mn></mml:msub></m Physical Review B, 2020, 101, .	3.2	17
29	Nanocomposite structure of two-line ferrihydrite powder from total scattering. Communications Chemistry, 2020, 3, .	4.5	28
30	Hidden diversity of vacancy networks in Prussian blue analogues. Nature, 2020, 578, 256-260.	27.8	190
31	Control of Metalâ€“Organic Framework Crystallization by Metastable Intermediate Preâ€equilibrium Species. Angewandte Chemie, 2019, 131, 576-581.	2.0	3
32	Short-range cation and spin ordering in the relaxor ferromagnet La3Ni2SbO9 studied by polarized-neutron scattering and Monte-Carlo methods. Journal of Solid State Chemistry, 2019, 278, 120920.	2.9	3
33	Ordered B-Site Vacancies in an ABX₃ Formate Perovskite. Journal of the American Chemical Society, 2019, 141, 17978-17982.	13.7	21
34	Metalâ€“organic frameworks under pressure. Journal of Applied Physics, 2019, 126, .	2.5	54
35	Opportunities and challenges in understanding complex functional materials. Nature Communications, 2019, 10, 4461.	12.8	30
36	High-pressure behaviour of Prussian blue analogues: interplay of hydration, Jahn-Teller distortions and vacancies. Dalton Transactions, 2019, 48, 1647-1655.	3.3	31

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37	Ferroic multipolar order and disorder in cyanoelpasolite molecular perovskites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180219.	3.4	13
38	Inorganic co-crystal formation and thermal disproportionation in a dicyanometallate â€˜superperovskiteâ€™. Chemical Communications, 2019, 55, 5439-5442.	4.1	2
39	Structural characterisation of amorphous solid dispersions via metropolis matrix factorisation of pair distribution function data. Chemical Communications, 2019, 55, 13346-13349.	4.1	33
40	How to quantify isotropic negative thermal expansion: magnitude, range, or both?. Materials Horizons, 2019, 6, 211-218.	12.2	68
41	Control of Metalâ€“Organic Framework Crystallization by Metastable Intermediate Preâ€equilibrium Species. Angewandte Chemie - International Edition, 2019, 58, 566-571.	13.8	47
42	Hybrid local-order mechanism for inversion symmetry breaking. Physical Review B, 2018, 97, .	3.2	2
43	Magnetic structure of paramagnetic MnO. Physical Review B, 2018, 97, .	3.2	16
44	Metalâ€Organic Frameworks as Catalyst Supports: Influence of Lattice Disorder on Metal Nanoparticle Formation. Chemistry - A European Journal, 2018, 24, 7498-7506.	3.3	29
45	Anomalous Lattice Dynamics in AgC4N3: Insights From Inelastic Neutron Scattering and Density Functional Calculations. Frontiers in Chemistry, 2018, 6, 544.	3.6	1
46	Negative Hydration Expansion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrW</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:msub><mml:mrow></mml: : Microscopic Mechanism, Spaghetti Dynamics, and Negative Thermal Expansion. Physical Review Letters, 2018, 120, 265501.	7.8	21
47	Compositional inhomogeneity and tuneable thermal expansion in mixed-metal ZIF-8 analogues. Chemical Communications, 2018, 54, 9651-9654.	4.1	35
48	Synthesis, PtS-type structure, and anomalous mechanics of the Cd(CN)₂ precursor Cd(NH₃)₂[Cd(CN)₄]. Dalton Transactions, 2018, 47, 7263-7271.	3.3	9
49	Recipes for improper ferroelectricity in molecular perovskites. Nature Communications, 2018, 9, 2380.	12.8	93
50	Phonon broadening from supercell lattice dynamics: Random and correlated disorder (Phys. Status) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	0
51	Metalâ€“Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5397-5404.	13.7	224
52	The same and not the same: molecular perovskites and their solid-state analogues. Materials Horizons, 2017, 4, 362-366.	12.2	44
53	Mesoscale Polarization by Geometric Frustration in Columnar Supramolecular Crystals. Angewandte Chemie - International Edition, 2017, 56, 4432-4437.	13.8	30
54	Polarisation auf der Mesoskala durch geometrische Frustration in kolumnaren supramolekularen Kristallen. Angewandte Chemie, 2017, 129, 4502-4508.	2.0	10

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55	Incommensurate Chirality Density Wave Transition in a Hybrid Molecular Framework. Physical Review Letters, 2017, 119, 115501.	7.8	5
56	Compositional nanodomain formation in hybrid formate perovskites. Chemical Communications, 2017, 53, 11233-11236.	4.1	10
57	Large elastic recovery of zinc dicyanoaurate. APL Materials, 2017, 5, 066107.	5.1	4
58	Frontispiz: Polarisation auf der Mesoskala durch geometrische Frustration in kolumnaren supramolekularen Kristallen. Angewandte Chemie, 2017, 129, .	2.0	0
59	Structural simplicity as a restraint on the structure of amorphous silicon. Physical Review B, 2017, 95, .	3.2	18
60	Orbital Dimer Model for the Spin-Glass State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow><mml:m mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mro. Physical Review Letters, 2017, 118, 067201.	7.8	34
61	Local structure study of the orbital order/disorder transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2017, 95, .	3.2	22
62	Phonon broadening from supercell lattice dynamics: Random and correlated disorder. Physica Status Solidi (B): Basic Research, 2017, 254, 1600586.	1.5	17
63	Anomalous thermal expansion, negative linear compressibility, and high-pressure phase transition in ZnAu2(CN)4 : Neutron inelastic scattering and lattice dynamics studies. Physical Review B, 2017, 96, .	3.2	13
64	A Breathing Zirconium Metalâ€“Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. Chemistry - A European Journal, 2016, 22, 3264-3267.	3.3	41
65	Anomalous Thermal Expansion and Luminescence Thermochromism in Silver(I) Dicyanamide. European Journal of Inorganic Chemistry, 2016, 2016, 4378-4381.	2.0	9
66	One-dimensional magnetic order in the metal-organic framework <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Tb</mml:mi><mml:mo Physical Review B, 2016, 94, .	3.2	20
67	Dicyanometallates as Model Extended Frameworks. Journal of the American Chemical Society, 2016, 138, 5886-5896.	13.7	76
68	Guest-Activated Forbidden Tilts in a Molecular Perovskite Analogue. Journal of the American Chemical Society, 2016, 138, 11121-11123.	13.7	30
69	Emergence of Long-Range Order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Local Symmetry-Breaking Distortions. Physical Review Letters, 2016, 116, 207602.	7.8	114
70	Control of Multipolar and Orbital Order in Perovskite-like [C(NH₂)₃]Cu_xCd_{1â€“x}(HCOO)₃ Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 9393-9396.	13.7	36
71	Structural distortions in the high-pressure polar phases of ammonium metal formates. CrystEngComm, 2016, 18, 8849-8857.	2.6	22
72	Columnar shifts as symmetry-breaking degrees of freedom in molecular perovskites. Physical Chemistry Chemical Physics, 2016, 18, 31881-31894.	2.8	52

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73	Exploration of antiferromagnetic CoO and NiO using reverse Monte Carlo total neutron scattering refinements. Physica Scripta, 2016, 91, 114004.	2.5	9
74	Design of crystal-like aperiodic solids with selective disorderâ€“phonon coupling. Nature Communications, 2016, 7, 10445.	12.8	48
75	Encoding complexity within supramolecular analogues of frustrated magnets. Nature Chemistry, 2016, 8, 442-447.	13.6	26
76	Defects and disorder in metal organic frameworks. Dalton Transactions, 2016, 45, 4113-4126.	3.3	159
77	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. Dalton Transactions, 2016, 45, 4258-4268.	3.3	34
78	Compositional dependence of anomalous thermal expansion in perovskite-like ABX₃formates. Dalton Transactions, 2016, 45, 4169-4178.	3.3	78
79	The crystallography of correlated disorder. Nature, 2015, 521, 303-309.	27.8	262
80	Negative linear compressibility. Physical Chemistry Chemical Physics, 2015, 17, 20449-20465.	2.8	204
81	Reversible piezochromism in a molecular wine-rack. Chemical Communications, 2015, 51, 10608-10611.	4.1	36
82	Zero-strain reductive intercalation in a molecular framework. CrystEngComm, 2015, 17, 2925-2928.	2.6	6
83	Glass formation via structural fragmentation of a 2D coordination network. Chemical Communications, 2015, 51, 12728-12731.	4.1	36
84	Defect-dependent colossal negative thermal expansion in UiO-66(Hf) metalâ€“organic framework. Physical Chemistry Chemical Physics, 2015, 17, 11586-11592.	2.8	127
85	Hidden order in spin-liquid Gd ₃ Ga ₅ O ₁₂. Science, 2015, 350, 179-181.	12.6	85
86	Flexibility transition and guest-driven reconstruction in a ferroelastic metalâ€“organic framework. CrystEngComm, 2015, 17, 361-369.	2.6	24
87	Framework flexibility and the negative thermal expansion mechanism of copper(I) oxide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>O</mml:mi></mml:math>. Physical Chemistry Chemical Physics, 2015, 17, 3154-3163.	3.2	34
88	Spin correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Ca</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml	3.2	31
89	Geometric switching of linear to area negative thermal expansion in uniaxial metalâ€“organic frameworks. CrystEngComm, 2014, 16, 3498-3506.	2.6	57
90	Structural investigation of a hydrogen bond orderâ€“disorder transition in a polar one-dimensional confined ice. Physical Chemistry Chemical Physics, 2014, 16, 2654.	2.8	5

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91	Acoustic phonons and negative thermal expansion in MOF-5. Physical Chemistry Chemical Physics, 2014, 16, 21144-21152.	2.8	61
92	Negative area compressibility in silver(<scp>i</scp>) tricyanomethanide. Chemical Communications, 2014, 50, 5264-5266.	4.1	73
93	Crystallography with powders. Nature Materials, 2014, 13, 760-762.	27.5	24
94	Correlated defect nanoregions in a metalâ€“organic framework. Nature Communications, 2014, 5, 4176.	12.8	550
95	Structural characterisation of a layered double hydroxide nanosheet. Nanoscale, 2014, 6, 8032-8036.	5.6	39
96	Giant negative linear compressibility in zincÂdicyanoaurate. Nature Materials, 2013, 12, 212-216.	27.5	217
97	Emergent Frustration in Co-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-Mn. Physical Review Letters, 2013, 110, 267207.	7.8	42
98	Structural disorder in molecular framework materials. Chemical Society Reviews, 2013, 42, 4881.	38.1	123
99	Homologous Critical Behavior in the Molecular Frameworks Zn(CN)₂ and Cd(imidazolate)₂. Journal of the American Chemical Society, 2013, 135, 7610-7620.	13.7	85
100	Vibrational and Thermal Properties of Ag₃[Co(CN)₆] from First-Principles Calculations and Infrared Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 12848-12857.	3.1	17
101	Quantification of local geometry and local symmetry in models of disordered materials. Physica Status Solidi (B): Basic Research, 2013, 250, 949-956.	1.5	7
102	Local structure correlations in plastic cyclohexaneâ€”a reverse Monte Carlo study. Journal of Physics Condensed Matter, 2013, 25, 454204.	1.8	10
103	spinvert: a program for refinement of paramagnetic diffuse scattering data. Journal of Physics Condensed Matter, 2013, 25, 454220.	1.8	55
104	Nanostructure determination from the pair distribution function: a parametric study of the INVERT approach. Journal of Physics Condensed Matter, 2013, 25, 454218.	1.8	4
105	Temperature-dependent pressure-induced softening in Zn(CN)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	3.2	27
106	Coupling of the local defect and magnetic structure of wÃ¼stite Fe1â^'xO. Physical Review B, 2013, 88, .	3.2	9
107	Flexibility of zeolitic imidazolate framework structures studied by neutron total scattering and the reverse Monte Carlo method. Journal of Physics Condensed Matter, 2013, 25, 395403.	1.8	28
108	Inside Back Cover: Quantification of local geometry and local symmetry in models of disordered materials (Phys. Status Solidi B 5/2013). Physica Status Solidi (B): Basic Research, 2013, 250, .	1.5	0

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109	Charge-ice dynamics in the negative thermal expansion material Cd(CN)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	29
110	Empirical Magnetic Structure Solution of Frustrated Spin Systems. Physical Review Letters, 2012, 108, 017204.	7.8	52
111	Static disorder and local structure in zinc(II) isonicotinate, a quartzlike metalâ€“organic framework. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 313-320.	1.1	10
112	Reverse Monte Carlo study of Cuâ€”O bond distortions in YBa2Cu3O6.9. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 280-287.	1.1	5
113	PASCal: a principal axis strain calculator for thermal expansion and compressibility determination. Journal of Applied Crystallography, 2012, 45, 1321-1329.	4.5	433
114	Statics and dynamics of the highly correlated spin ice Ho<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	34
115	Rational Design of Materials with Extreme Negative Compressibility: Selective Soft-Mode Frustration in KMn[Ag(CN)₂]₃. Journal of the American Chemical Society, 2012, 134, 4454-4456.	13.7	124
116	Supramolecular mechanics in a metalâ€“organic framework. Chemical Science, 2012, 3, 3011.	7.4	144
117	Amorphization of the prototypical zeolitic imidazolate framework ZIF-8 by ball-milling. Chemical Communications, 2012, 48, 7805.	4.1	137
118	Spatial uniformity as a principle for determination of atomistic structural models. Modelling and Simulation in Materials Science and Engineering, 2011, 19, 035010.	2.0	2
119	Mn(I) in an Extended Oxide: The Synthesis and Characterization of La_{1â€“x}Ca_xMnO_{2+Î´}(0.6 â‰¤ x â‰¤ 1). Journal of the American Chemical Society, 2011, 133, 18397-18405.	13.7	40
120	Applications of pair distribution function methods to contemporary problems in materials chemistry. Journal of Materials Chemistry, 2011, 21, 6464.	6.7	124
121	Thermal Amorphization of Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2011, 50, 3067-3071.	13.8	146
122	Diffraction study of pressure-amorphized ZrW<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>8</mml:mn></mml:msub></mml:mro	3.2	17
123	Packing down. Nature Materials, 2010, 9, 7-8.	27.5	29
124	Structure Determination of Disordered Materials from Diffraction Data. Physical Review Letters, 2010, 104, 125501.	7.8	97
125	Structure and Properties of an Amorphous Metal-Organic Framework. Physical Review Letters, 2010, 104, 115503.	7.8	246
126	Nanoporous Structure and Medium-Range Order in Synthetic Amorphous Calcium Carbonate. Chemistry of Materials, 2010, 22, 3197-3205.	6.7	160

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127	Zero Thermal Expansion in a Flexible, Stable Framework: Tetramethylammonium Copper(I) Zinc(II) Cyanide. Journal of the American Chemical Society, 2010, 132, 10-11.	13.7	104
128	The hydrogen-bonding transition and isotope-dependent negative thermal expansion in H₃Co(CN)₆. Journal of Physics Condensed Matter, 2010, 22, 404202.	1.8	15
129	Aperiodicity, structure, and dynamics inNi(CN)2. Physical Review B, 2009, 80, .	3.2	30
130	Thermal Expansion Matching via Framework Flexibility in Zinc Dicyanometallates. Journal of the American Chemical Society, 2009, 131, 6334-6335.	13.7	101
131	The crystallography of flexibility: Local structure and dynamics in framework materials. Zeitschrift FÃ¼r Kristallographie, Supplement, 2009, 2009, 1-11.	0.5	6
132	eScience for molecular-scale simulations and the e Minerals project. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 967-985.	3.4	8
133	Nanoporosity and Exceptional Negative Thermal Expansion in Singleâ€Network Cadmium Cyanide. Angewandte Chemie - International Edition, 2008, 47, 1396-1399.	13.8	167
134	The ins and outs of thermal expansion. Nature Nanotechnology, 2008, 3, 711-712.	31.5	13
135	Colossal Positive and Negative Thermal Expansion in the Framework Material Ag ₃ [Co(CN) ₆]. Science, 2008, 319, 794-797.	12.6	575
136	Argentophilicity-Dependent Colossal Thermal Expansion in Extended Prussian Blue Analogues. Journal of the American Chemical Society, 2008, 130, 9660-9661.	13.7	82
137	Origin of the colossal positive and negative thermal expansion in Ag3[Co(CN)6]: anab initiodensity functional theory study. Journal of Physics Condensed Matter, 2008, 20, 255226.	1.8	23
138	Large negative linear compressibility of Ag ₃ [Co(CN) ₆]. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18708-18713.	7.1	220
139	Local structure in Ag₃[Co(CN)₆]: colossal thermal expansion, rigid unit modes and argentophilic interactions. Journal of Physics Condensed Matter, 2008, 20, 255225.	1.8	34
140	Real-space refinement of single-crystal electron diffuse scattering and its application to Bi₂Ru₂O_{7â^'Î´}. Journal of Physics Condensed Matter, 2007, 19, 335216.	1.8	17
141	MnOspin-wave dispersion curves from neutron powder diffraction. Physical Review B, 2007, 75, .	3.2	13
142	Structural Description of Pressure-Induced Amorphization inZrW2O8. Physical Review Letters, 2007, 98, 225501.	7.8	65
143	Ferroelectric nanoscale domains and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>905</mml:mn><mml:mspace width="0.3em" /><mml:mi mathvariant="normal">K</mml:mi></mml:mrow></mml:math>phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi mathvariant="normal">Sn</mml:mi><mml:msub><mml:mi	3.2	44
144	RMCProfile: reverse Monte Carlo for polycrystalline materials. Journal of Physics Condensed Matter, 2007, 19, 335218.	1.8	351

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145	Cation substitution and strain screening in framework structures: The role of rigid unit modes. Chemical Geology, 2006, 225, 213-221.	3.3	10
146	Dynamics from diffraction. Physica B: Condensed Matter, 2006, 385-386, 285-287.	2.7	3
147	Magnetic Structure of MnO at 10ÂK from Total Neutron Scattering Data. Physical Review Letters, 2006, 96, 047209.	7.8	74
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