Dmitry Chernyshov

List of Publications by Year
in descending order

301	7,190	61984	74163
papers	citations	43 h-index	75 g-index

322	322	322	9160
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	12.6	444
2	A new multipurpose diffractometer PILATUS@SNBL. Journal of Synchrotron Radiation, 2016, 23, 825-829.	2.4	273
3	Ordering Phenomena and Phase Transitions in a Spin-Crossover Compoundâ€"Uncovering the Nature of the Intermediate Phase of[Fe(2-pic)3]Cl2â‹…EtOH. Angewandte Chemie - International Edition, 2003, 42, 3825-3830.	13.8	253
4	The origin of antiferroelectricity in PbZrO3. Nature Communications, 2013, 4, 2229.	12.8	251
5	Hidden diversity of vacancy networks in Prussian blue analogues. Nature, 2020, 578, 256-260.	27.8	190
6	Lithium Diffusion Pathway in Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ (LATP) Superionic Conductor. Inorganic Chemistry, 2016, 55, 2941-2945.	4.0	188
7	Porous and Dense Magnesium Borohydride Frameworks: Synthesis, Stability, and Reversible Absorption of Guest Species. Angewandte Chemie - International Edition, 2011, 50, 11162-11166.	13.8	175
8	Challenges in Engineering Spin Crossover: Structures and Magnetic Properties of Six Alcohol Solvates of Iron(II) Tris(2-picolylamine) Dichloride. Angewandte Chemie - International Edition, 2004, 43, 4589-4594.	13.8	167
9	Lightest Borohydride Probed by Synchrotron X-ray Diffraction: Experiment Calls for a New Theoretical Revision. Journal of Physical Chemistry C, 2008, 112, 10579-10584.	3.1	150
10	Superhard Semiconducting Optically Transparent High Pressure Phase of Boron. Physical Review Letters, 2009, 102, 185501.	7.8	139
11	A Polymorph Lost and Found: The Highâ€Temperature Crystal Structure of Pentacene. Advanced Materials, 2007, 19, 2079-2082.	21.0	128
12	Crystal Handedness and Spin Helix Chirality in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Mo</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 037204.	7.8	115
13	Chiral Properties of Structure and Magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Mo</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>: When the Left and the Right are Fighting, Who Wins?. Physical Review Letters, 2013, 110, 207201.	7.8	111
14	Highâ€Pressure Polymorphism as a Step towards Destabilization of LiBH₄. Angewandte Chemie - International Edition, 2008, 47, 529-532.	13.8	106
15	Optically switched magnetism in photovoltaic perovskite CH3NH3(Mn:Pb)I3. Nature Communications, 2016, 7, 13406.	12.8	106
16	Light metal borohydrides: crystal structures and beyond. Zeitschrift FÃ¼r Kristallographie, 2008, 223, .	1.1	100
17	Universal Oxide Shell Growth Enables in Situ Structural Studies of Perovskite Nanocrystals during the Anion Exchange Reaction. Journal of the American Chemical Society, 2019, 141, 8254-8263.	13.7	92
18	Metal-organic magnets with large coercivity and ordering temperatures up to 242Â°C. Science, 2020, 370, 587-592.	12.6	91

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19	Vacancy superstructure and possible room-temperature antiferromagnetic order in superconducting Cs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’	3.2	88
20	Spiral spin-liquid and the emergence of a vortex-like state in MnSc2S4. Nature Physics, 2017, 13, 157-161.	16.7	88
21	Enhancing Na⁺ Extraction Limit through High Voltage Activation of the NASICON-Type Na₄MnV(PO₄)₃ Cathode. ACS Applied Energy Materials, 2018, 1, 5842-5846.	5.1	87
22	Structure and interstitial iodide migration in hybrid perovskite methylammonium lead iodide. Nature Communications, 2017, 8, 15152.	12.8	83
23	Interplay of Spin Conversion and Structural Phase Transformations: Re-Entrant Phase Transitions in the 2-Propanol Solvate of Tris(2-picolylamine)iron(II) Dichloride. Chemistry - A European Journal, 2006, 12, 6207-6215.	3.3	79
24	Synthesis of an orthorhombic high pressure boron phase. Science and Technology of Advanced Materials, 2008, 9, 044209.	6.1	78
25	Diffuse scattering in relaxor ferroelectrics: true three-dimensional mapping, experimental artefacts and modelling. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 117-123.	0.3	74
26	Giant Kohn Anomaly and the Phase Transition in Charge Density Wave<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>ZrTe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 086402.	7.8	71
27	Nuclear Magnetic Resonance Study of the Rotational Motion and the Phase Transition in LiBH₄. Journal of Physical Chemistry C, 2008, 112, 18701-18705.	3.1	68
28	Interplay between crystalline chirality and magnetic structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mn</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:m Physical Review B, 2010, 81, .	3.2	67
29	Thermal decomposition of AlH3 studied by in situ synchrotron X-ray diffraction and thermal desorption spectroscopy. Journal of Alloys and Compounds, 2007, 446-447, 280-289.	5.5	66
30	Landau theory for spin transition and ordering phenomena in Fe(II) compounds. Physical Review B, 2004, 70, .	3.2	63
31	High-pressure phase ofNaBH4: Crystal structure from synchrotron powder diffraction data. Physical Review B, 2007, 76, .	3.2	62
32	A disorder-enhanced quasi-one-dimensional superconductor. Nature Communications, 2016, 7, 12262.	12.8	62
33	High-pressure phase and transition phenomena in ammonia borane<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NH</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m x-ray diffraction, Landau theory, andab initiocalculations. Physical Review B, 2009, 79, .	3.2	59
34	Fabrication of Artificial Opals by Electric-Field-Assisted Vertical Deposition. Langmuir, 2010, 26, 2346-2351.	3.5	56
35	Charge-ordering transition in iron oxide Fe4O5 involving competing dimer and trimer formation. Nature Chemistry, 2016, 8, 501-508.	13.6	54
36	Crystalline, Mixed-Valence Manganese Analogue of Prussian Blue:â€‰ Magnetic, Spectroscopic, X-ray and Neutron Diffraction Studies. Journal of the American Chemical Society, 2004, 126, 16472-16477.	13.7	53

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37	Apatite Formation from Amorphous Calcium Phosphate and Mixed Amorphous Calcium Phosphate/Amorphous Calcium Carbonate. Chemistry - A European Journal, 2016, 22, 12347-12357.	3.3	51
38	Molecularly Smooth Single-Crystalline Films of Thiopheneâ€“Phenylene Co-Oligomers Grown at the Gasâ€“Liquid Interface. Crystal Growth and Design, 2014, 14, 1726-1737.	3.0	49
39	Pressure-temperature phase diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Li</mml:mi><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>: Synchrotron x-ray diffraction experiments and theoretical analysis. Physical Review B, 2008, 77, .	3.2	48
40	Electrochemical properties and evolution of the phase transformation behavior in the NASICON-type Na3+xMnxV2-x(PO4)3 (0â‰¤xâ‰¤1) cathodes for Na-ion batteries. Journal of Power Sources, 2020, 470, 228231.	7.8	48
41	Electron-Deficient and Polycenter Bonds in the High-Pressure<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi><mml:mtext mathvariant="normal">â€²</mml:mtext><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>28</mml:mn></mml:msub></mml:math>Phase of Boron. Physical Review Letters, 2011, 106, 215502.	7.8	46
42	Chiral open-framework uranyl molybdates. 3. Synthesis, structure and the C2221â†'P212121 low-temperature phase transition of [C6H16N]2[(UO2)6(MoO4)7(H2O)2](H2O)2. Microporous and Mesoporous Materials, 2005, 78, 225-234.	4.4	43
43	The synthesis, and crystal and magnetic structure of the iron selenide BaFe₂Se₃with possible superconductivity atT_c= 11 K. Journal of Physics Condensed Matter, 2011, 23, 402201.	1.8	43
44	Structural Heterogeneity and Diffuse Scattering in Morphotropic Lead Zirconate-Titanate Single Crystals. Physical Review Letters, 2012, 109, 097603.	7.8	43
45	Lattice anharmonicity and structural evolution of LiBH₄: an insight from Raman and X-ray diffraction experiments. Phase Transitions, 2009, 82, 344-355.	1.3	42
46	Kinematic diffraction on a structure with periodically varying scattering function. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 327-335.	0.3	42
47	Controlling the Dzyaloshinskii-Moriya Interaction to Alter the Chiral Link between Structure and magnetism for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mi>x</mml:mi></mml:math>. Physical Review B, 2015, 91, .	3.2	40
48	Lattice dynamics and antiferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbZrO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> by x-ray and Brillouin light scattering. Physical Review B, 2014, 90, .	3.2	39
49	Structural disorder versus chiral magnetism inCr1/3NbS2. Physical Review B, 2015, 91, .	3.2	39
50	Coupling between spin conversion and solvent disorder in spin crossover solids. Physical Review B, 2007, 76, .	3.2	38
51	CH₃NH₃PbI₃: precise structural consequences of water absorption at ambient conditions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 716-722.	1.1	37
52	Crystal structure and magnetic properties of the unique Jahn-Teller system154Sm0.6Sr0.4MnO3. Physical Review B, 2001, 64, .	3.2	36
53	Short-Range Correlations in Magnetite above the Verwey Temperature. Physical Review X, 2014, 4, .	8.9	36
54	Smart Energetic Nanosized Co-Crystals: Exploring Fast Structure Formation and Decomposition. Crystal Growth and Design, 2016, 16, 432-439.	3.0	34

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55	Control of chirality of transition-metal monosilicides by the Czochralski method. Physical Review B, 2011, 84, .	3.2	33
56	Crystal structure and phonon softening in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>Ir₃Si₇. Physical Review B, 2015, 92, .	3.2	33
57	Trojans That Flip the Black Phase: Impurity-Driven Stabilization and Spontaneous Strain Suppression in Î³-CsPbI₃ Perovskite. Journal of the American Chemical Society, 2021, 143, 10500-10508.	13.7	33
58	Patterson selectivity by modulation-enhanced diffraction. Journal of Applied Crystallography, 2012, 45, 458-470.	4.5	32
59	Graphene oxide hydration and solvation: an in situ neutron reflectivity study. Nanoscale, 2014, 6, 12151-12156.	5.6	32
60	Chemical disorder and spin crossover in a mixed ethanolâ€“2-propanol solvate of FeII tris(2-picolylamine) dichloride. New Journal of Chemistry, 2009, 33, 1277.	2.8	29
61	Intrinsic crystal phase separation in the antiferromagnetic superconductor Rb_yFe_{2â^'x}Se₂: a diffraction study. Journal of Physics Condensed Matter, 2012, 24, 435701.	1.8	28
62	Particle size effect in carbon supported Ptâ€“Co alloy electrocatalysts prepared by the borohydride method: XRD characterization. Applied Catalysis A: General, 2009, 357, 1-4.	4.3	27
63	Pressure-induced isostructural phase transformation inÎ³-B28. Physical Review B, 2010, 82, .	3.2	27
64	Experimental evidence of orbital order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-B<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>12</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	3.2	27
65	Temperature dependences of the parameters of atoms in the crystal structure of the intermediate-valence semiconductor SmB6: investigation by high-resolution powder neutron diffraction. Journal of Physics Condensed Matter, 1993, 5, 2479-2488.	1.8	26
66	Low-lying phonons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaBH</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>by inelastic scattering of synchrotron radiation. Physical Review B, 2008, 78, .	4.2	26
67	Single-Step Synthesis of Dual Phase Bright Blue-Green Emitting Lead Halide Perovskite Nanocrystal Thin Films. Chemistry of Materials, 2019, 31, 6824-6832.	6.7	26
68	Crystal structure of BaFe₂Se₃as a function of temperature and pressure: phase transition phenomena and high-order expansion of Landau potential. Journal of Physics Condensed Matter, 2013, 25, 315403.	1.8	25
69	Solid-state reactivity exploredin situby synchrotron radiation on single crystals: from SrFeO_{2.5}to SrFeO₃via electrochemical oxygen intercalation. Journal Physics D: Applied Physics, 2015, 48, 504004.	2.8	25
70	Incommensurate crystal structure of PbHfO₃. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 7-12.	1.1	25
71	Crystal and Electronic Structures of Magnesium(II), Copper(II), and Mixed Magnesium(II)â^'Copper(II) Complexes of the Quinoline Half of Styrylquinoline-Type HIV-1 Integrase Inhibitors. Journal of Physical Chemistry B, 2007, 111, 6042-6050.	2.6	24
72	Structural and magnetic properties of inverse opal photonic crystals studied by x-ray diffraction, scanning electron microscopy, and small-angle neutron scattering. Physical Review B, 2009, 79, .	3.2	24

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73	Chirality of structure and magnetism in the magnetoelectric compound <span class="aps-inline-formula"><math><msub><mi>Cu</mi><mn>2</mn></msub><msub>&t; Physical Review B, 2014, 89, .		24
74	Synthesis, Structure, and Thermoelectric Properties of Î±-Zn₃Sb₂ and Comparison to Î²-Zn₁₃Sb₁₀. Chemistry of Materials, 2017, 29, 5249-5258.	6.7	24
75	The updated Znâ€“Sb phase diagram. How to make pure Zn₁₃Sb₁₀(â€œZn₄Sb₃â€).. Dalton Transactions, 2018, 47,	3.3	24
76	Symmetry and structure of multiferroic Ba<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>CoGe<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 /><mml:mml:	3.2	23
77	Metastable state of the photomagnetic Prussian blue analog K0.3Co[Fe(CN)6]0.77Â·3.6H2O investigated by various techniques. Physical Review B, 2011, 84, .	3.2	23
78	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites. Physical Review Materials, 2019, 3, .	2.4	23
79	Competing charge density waves and temperature-dependent nesting in2H-TaSe2. Physical Review B, 2011, 83, .	3.2	22
80	An electrochemical cell with sapphire windows foroperandosynchrotron X-ray powder diffraction and spectroscopy studies of high-power and high-voltage electrodes for metal-ion batteries. Journal of Synchrotron Radiation, 2018, 25, 468-472.	2.4	22
81	Mesoscopic magnetic inhomogeneities in the low-temperature phase and structure of Sm1â^'x SrxMnO3 (x < 0.5) perovskite. Journal of Experimental and Theoretical Physics, 2000, 91, 1017-1028.	0.9	21
82	Evidence for complex multistability in photomagnetic cobalt hexacyanoferrates from combined magnetic and synchrotron x-ray diffraction measurements. Physical Review B, 2009, 79, .	3.2	21
83	Magnetic topology of Co-based inverse opal-like structures. Physical Review B, 2011, 84, .	3.2	21
84	Untangling diffraction intensity: modulation enhanced diffraction on ZrO2powder. Journal of Applied Crystallography, 2012, 45, 738-747.	4.5	21
85	Determination of the real structure of artificial and natural opals on the basis of three-dimensional reconstructions of reciprocal space. JETP Letters, 2009, 90, 272-277.	1.4	20
86	Temperature and Pressure Evolution of the Crystal Structure of A_x(Fe_{1â€“y}Se)₂ (A = Cs, Rb, K) Studied by Synchrotron Powder Diffraction. Inorganic Chemistry, 2011, 50, 10703-10708.	4.0	20
87	New insights into the lattice dynamics ofÎ±-quartz. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 84-91.	1.1	20
88	Reentrant Phase Coherence in Superconducting Nanowire Composites. ACS Nano, 2016, 10, 515-523.	14.6	19
89	Strong magnetoelastic coupling in orthorhombic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mtext>Eu</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mml: Physical Review B, 2010, 82, .	3.2	18
90	Dynamics and Thermodynamics of Crystalline Polymorphs. 2. Î²-Glycine, Analysis of Variable-Temperature Atomic Displacement Parameters. Journal of Physical Chemistry A, 2013, 117, 8001-8009.	2.5	18

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91	Change of the cerium valence with temperature â€“ Structure and chemical bonding of HT-CeRhGe. Solid State Sciences, 2013, 21, 6-10.	3.2	18
92	Texture Formation in Polycrystalline Thin Films of Allâ€Inorganic Lead Halide Perovskite. Advanced Materials, 2021, 33, e2007224.	21.0	18
93	MmHn(XO4)(m+n)/2crystals: structure, phase transitions, hydrogen bonds, conductivity. I. K9H7(SO4)8Å·H2O crystals â€“ a new representative of the family of solid acid conductors. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 218-226.	1.1	17
94	Dynamics and Thermodynamics of Crystalline Polymorphs. 3. Î³-Glycine, Analysis of Variable-Temperature Atomic Displacement Parameters, and Comparison of Polymorph Stabilities. Journal of Physical Chemistry A, 2014, 118, 9951-9959.	2.5	17
95	High-Pressure Study of Mn(BH4)2 Reveals a Stable Polymorph with High Hydrogen Density. Chemistry of Materials, 2016, 28, 274-283.	6.7	17
96	A Roomâ€Temperature Verweyâ€type Transition in Iron Oxide, Fe₅O₆. Angewandte Chemie - International Edition, 2020, 59, 5632-5636.	13.8	17
97	Cation Size and Anion Anisotropy in Structural Chemistry of Metal Borohydrides. The Peculiar Pressure Evolution of RbBH₄. Inorganic Chemistry, 2010, 49, 5285-5292.	4.0	16
98	Phase coexistence in Cs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn	3.2	16
99	In-between Bragg reflections: thermal diffuse scattering and vibrational spectroscopy with x-rays. Journal Physics D: Applied Physics, 2015, 48, 504003.	2.8	16
100	Strain engineering of photo-induced phase transformations in Prussian blue analogue heterostructures. Nanoscale, 2018, 10, 16030-16039.	5.6	16
101	On model-free reconstruction of lattice dynamics from thermal diffuse scattering. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, 598-600.	0.3	15
102	Choice of dynamics for spin-crossover systems. Physical Review B, 2010, 81, .	3.2	15
103	A chiral link between structure and magnetism in MnSi. Journal of Physics Condensed Matter, 2012, 24, 366005.	1.8	15
104	Diffuse scattering in Ih ice. Journal of Physics Condensed Matter, 2014, 26, 265401.	1.8	15
105	Crystal structure and thermal expansion of Mn1â^'xFexGe. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 676-680.	1.1	15
106	Frequency analysis for modulation-enhanced powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 500-506.	0.1	15
107	Co-crystallizedcisandtransisomers of dichlorobis(2-picolylamine)iron(II). Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, m450-m452.	0.4	14
108	Superstructure formation at the metal-insulator transition inRBaCo2O5.5(R=Nd,Tb)as seen from reciprocal space mapping. Physical Review B, 2008, 78, .	3.2	14

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109	3DÂImaging of the Fermi Surface by Thermal Diffuse Scattering. Physical Review Letters, 2009, 103, 076403.	7.8	14
110	Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MgCr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	3.2	14
111	Probing the intrinsic and extrinsic origins of piezoelectricity in lead zirconate titanate single crystals. Journal of Applied Crystallography, 2018, 51, 1396-1403.	4.5	14
112	Large electromechanical strain and unconventional domain switching near phase convergence in a Pb-free ferroelectric. Communications Physics, 2020, 3, .	5.3	14
113	Structure and chemical bonding in MgNi2H3 from combined high resolution synchrotron and neutron diffraction studies and ab initio electronic structure calculations. Acta Materialia, 2015, 98, 416-422.	7.9	13
114	Long-range oxygen ordering linked to topotactic oxygen release in Pr₂NiO_{4+Î´} fuel cell cathode material. Journal of Materials Chemistry A, 2020, 8, 13987-13995.	10.3	13
115	Crystal structure, chemical bonding, and electrical and thermal transport in Sc₅Rh₆Sn₁₈. Dalton Transactions, 2020, 49, 6832-6841.	3.3	13
116	Synchrotron powder diffraction in a systematic study of 4â€²-[2-(tosylamino)benzylideneamino]-2,3-benzo-15-crown-5 complexes. Acta Crystallographica Section B: Structural Science, 2007, 63, 402-410.	1.8	12
117	Growth of single crystals of B28 at high pressures and high temperatures. Journal of Crystal Growth, 2010, 312, 3388-3394.	1.5	12
118	Identification, structural characterization and transformations of the high-temperature Zn_{9â€²Î´}Sb₇ phase in the Znâ€“Sb system. Dalton Transactions, 2015, 44, 20983-20990.	3.3	12
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120	A rapid two-dimensional data collection system for the study of ferroelectric materials under external applied electric fields. Journal of Applied Crystallography, 2016, 49, 1501-1507.	4.5	12
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