Denis Sheptyakov

List of Publications by Year in descending order

205 papers	4,930 citations	76196 40 h-index	138251 58 g-index
216 all docs	216 docs citations	216 times ranked	6277 citing authors

#	Article	IF	Citations
1	Magnetic order in the quasi-one-dimensional Ising system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>RbCo</mml:mi><mml:msub><mml:mi>Cl</mml:mi><mml:mn Physical Review B, 2021, 103, .		
2	Observation of novel charge ordering and spin reorientation in perovskite oxide PbFeO3. Nature Communications, 2021, 12, 1917.	5.8	17
3	HoHO: A Paramagnetic Air-Resistant Ionic Hydride with Ordered Anions. Inorganic Chemistry, 2021, 60, 3972-3979.	1.9	11
4	Computational Chemistry-Guided Syntheses and Crystal Structures of the Heavier Lanthanide Hydride Oxides DyHO, ErHO, and LuHO. Crystals, 2021, 11, 750.	1.0	7
5	Structural Investigation into Magnetic Spin Orders of a Manganese Phosphatic Oxyhydroxide, Mn5[(PO4)2(PO3(OH))2](HOH)4. Symmetry, 2021, 13, 1688.	1.1	1
6	Crystal and Magnetic Structure Transitions in BiMnO3+Î´ Ceramics Driven by Cation Vacancies and Temperature. Materials, 2021, 14, 5805.	1.3	4
7	Stroboscopic neutron diffraction applied to fast time-resolved operando studies on Li-ion batteries (d-LiNi_{0.5}Mn_{1.5}O₄vs. graphite). Journal of Materials Chemistry A, 2020, 8, 1288-1297.	5.2	15
8	Observation of plaquette fluctuations in the spin-1/2 honeycomb lattice. Npj Quantum Materials, 2020, 5, .	1.8	19
9	Cr-Doped Li-Rich Nickel Cobalt Manganese Oxide as a Positive Electrode Material in Li-Ion Batteries to Enhance Cycling Stability. ACS Applied Energy Materials, 2020, 3, 8646-8657.	2.5	23
10	Complex antiferromagnetic order in the garnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">l</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S	1.1	3
11	Switching the magnetostructural coupling in MnCoGe-based magnetocaloric materials. Physical Review Materials, 2020, 4, .	0.9	8
12	Li/Fe substitution in Li-rich Ni, Co, Mn oxides for enhanced electrochemical performance as cathode materials. Journal of Materials Chemistry A, 2019, 7, 15215-15224.	5.2	34
13	Room-temperature structural phase transition in the quasi-2D spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m Heisenberg antiferromagnet <mml:math		

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19	A Cylindrical Cell for Operando Neutron Diffraction of Li-Ion Battery Electrode Materials. Frontiers in Energy Research, 2018, 6, .	1.2	30
20	Fe and Co methylene diphosphonates as conversion materials for Li-ion batteries. Journal of Power Sources, 2017, 342, 879-885.	4.0	5
21	Magnetic Field Dependence of Excitations Near Spin-Orbital Quantum Criticality. Physical Review Letters, 2017, 118, 067205.	2.9	8
22	Ligand influence in Li-ion battery hybrid active materials: Ni methylenediphosphonate vs. Ni dimethylamino methylenediphosphonate. Chemical Communications, 2017, 53, 5420-5423.	2.2	4
23	Improved electrochemical performances of Li-rich nickel cobalt manganese oxide by partial substitution of Li + by Mg 2+. Journal of Power Sources, 2017, 359, 27-36.	4.0	44
24	Strong magnetic frustration in Y₃Cu₉(OH)₁₉Cl₈: a distorted kagome antiferromagnet. Journal of Materials Chemistry C, 2017, 5, 2629-2635.	2.7	33
25	On the elusive nature of oxygen binding at coordinatively unsaturated 3d transition metal centers in metalâ€“organic frameworks. Physical Chemistry Chemical Physics, 2017, 19, 26346-26357.	1.3	17
26	Low Temperature Phases of Na2 Ti3 Cl8 Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 2063-2069.	0.6	8
27	Crystal structure evolution via operando neutron diffraction during long-term cycling of a customized 5 V full Li-ion cylindrical cell LiNi_{0.5}Mn_{1.5}O₄vs. graphite. Journal of Materials Chemistry A, 2017, 5, 25574-25582.	5.2	31
28	Lowâ€Temperature Cationic Rearrangement in a Bulk Metal Oxide. Angewandte Chemie - International Edition, 2016, 55, 9862-9867.	7.2	20
29	Chemical pressure effects on crystal and magnetic structures of bilayer manganites PrA2Mn2O7 (Aâ€‰=â€‰Sr) Tj ETQq1 1 0.7843	1.1	5
30	Tuning magnetic spirals beyond room temperature with chemical disorder. Nature Communications, 2016, 7, 13758.	5.8	42
31	Stabilization of the tetragonal structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Ba</mml:mi> mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. First-principles calculation and experimental investigation of lattice dynamics in the rare-earth	1.1	6
32	pyrochlores<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math><mml:math		

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37	High Li ion conductivity in a garnet-type solid electrolyte via unusual site occupation of the doping Ca ions. Materials and Design, 2016, 93, 232-237.	3.3	67
38	Novel Synthesis Method of Nonstoichiometric Na2-xIrO3 Crystal Structure, Transport and Magnetic Properties. Journal of Chemistry and Chemical Engineering, 2016, 10, .	0.3	0
39	News from the Swiss Spallation Neutron Source SINQ: diffraction at non-ambient conditions. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s416-s416.	0.0	0
40	Stroboscopic neutron powder diffraction at HRPT, SINQ. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s153-s153.	0.0	0
41	Jahn-Teller versus quantum effects in the spin-orbital material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LuVO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review B, 2015, 91, .	1.1	12
42	Oxygen isotope effects on lattice properties ofLa2â^'xBaxCuO4(x=1/8). Physical Review B, 2015, 92, .	1.1	3
43	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>: An all-inâ€"all-out pyrochlore magnet with no divergence-free field and anomalously slow paramagnetic spin dynamics. Physical Review B, 2015, 92, .	1.1	45
44	Sc2Ga2CuO7: A possible quantum spin liquid near the percolation threshold. Physical Review B, 2015, 92, .	1.1	12
45	Pressure-induced spin reorientation and spin state transition inSrCoO3. Physical Review B, 2015, 92, .	1.1	18
46	Spiral magnetic phase in Li-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2015, 91, .	1.1	11
47	Incommensurate magnetic structure, Fe/Cu chemical disorder, and magnetic interactions in the high-temperature multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">YBaCuFeO</mml:mi><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	1.1	39
48	{110}-Layered B-cation ordering in the anion-deficient perovskite Pb2.4Ba2.6Fe2Sc2TiO13 with the crystallographic shear structure. Dalton Transactions, 2015, 44, 10753-10762.	1.6	2
49	Magnetostructural relationship in the tetrahedral spin-chain oxideCsCoO2. Physical Review B, 2015, 91, .	1.1	2
50	CuMo_{0.9}W_{0.1}O₄ phase transition with thermochromic, piezochromic, and thermosalient effects. Journal of Materials Chemistry C, 2015, 3, 2918-2924.	2.7	26
51	Layer-preferential substitutions and magnetic properties of pyrrhotite-type Fe_{7â^'y}M_yX₈chalcogenides (X= S,) Tj ETQq1 1 0.784314 rg	3.7	34
52	Layered Oxychlorides [PbBiO2]An+1BnO3nâ€"1Cl2 (A = Pb/Bi, B = Fe/Ti): Intergrowth of the Hematophanite and Sillen Phases. Chemistry of Materials, 2015, 27, 2946-2956.	3.2	15
53	Fluoride solid electrolytes: investigation of the tysonite-type solid solutions La_{1â^'x}Ba_xF_{3â^'x} (x < 0.15). Dalton Transactions, 2015, 44, 19625-19635.	1.6	51
54	Characterization of selenium in UO₂spent nuclear fuel by micro X-ray absorption spectroscopy and its thermodynamic stability. Environmental Sciences: Processes and Impacts, 2015, 17, 1760-1768.	1.7	10

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55	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.	3.8	13
56	Lithium Iron Methylenediphosphonate: A Model Material for New Organicâ€“Inorganic Hybrid Positive Electrode Materials for Li Ion Batteries. Chemistry of Materials, 2015, 27, 7889-7895.	3.2	16
57	Interplay between structural and magnetic phase transitions in copper ferrite studied with high-resolution neutron diffraction. Journal of Magnetism and Magnetic Materials, 2015, 374, 591-599.	1.0	30
58	Investigation of microstrain in dispersion-strengthened steels. Physics of the Solid State, 2014, 56, 166-170.	0.2	3
59	Mechanistic and Kinetic Study of the Electrochemical Charge and Discharge of La2MgNi9 by in Situ Powder Neutron Diffraction. Journal of Physical Chemistry C, 2014, 118, 12162-12169.	1.5	31
60	Localization and Impact of Pb-Non-Bonded Electronic Pair on the Crystal and Electronic Structure of Pb2YSbO6. Inorganic Chemistry, 2014, 53, 5609-5618.	1.9	6
61	Structure and Absence of Ferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SmFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2014, 113, 217203.	2.9	105
62	Influence of disorder on the structural phase transition and magnetic interactions inBa3â^'xSrxCr2O8. Physical Review B, 2014, 90, .	1.1	5
63	Anionâ^'Ï€ and Halideâ€“Halide Nonbonding Interactions in a New Ionic Liquid Based on Imidazolium Cation with Three-Dimensional Magnetic Ordering in the Solid State. Inorganic Chemistry, 2014, 53, 8384-8396.	1.9	43
64	Low temperature crystal structure and local magnetometry for the geometrically frustrated pyrochlore Tb₂Ti₂O₇. Journal of Physics: Conference Series, 2014, 551, 012021.	0.3	6
65	Two types of adjacent dimer layers in the low-temperature phase of BaCuSi2O6. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C75-C75.	0.0	0
66	Very large magnetoresistance and spin state transition in Ba-doped cobaltites. Journal of Applied Physics, 2013, 113, 053909.	1.1	19
67	Rich Crystal Chemistry and Magnetism of â€œ114â€•Stoichiometric LnBaFe₄O_{7.0} Ferrites. Inorganic Chemistry, 2013, 52, 10438-10448.	1.9	13
68	Ionic conductivity in the Mg intercalated fullerene polymer Mg2C60. Carbon, 2013, 51, 143-147.	5.4	31
69	Hydrogen Sorption in Li₁₂C₆₀. Journal of Physical Chemistry C, 2013, 117, 22598-22602.	1.5	49
70	Structural and Magnetic Phase Transitions in the A_nB_nO_{3nâ€“2} Anion-Deficient Perovskites Pb₂Ba₂BiFe₅O₁₃ and Pb_{1.5}Ba_{2.5}Bi₂Fe₆O₁₆. Inorganic Chemistry, 2013, 52, 7834-7843.	1.9	10
71	Magnetic ordering in Fe1.087Te under pressure. European Physical Journal B, 2013, 86, 1.	0.6	7
72	Microstrain in dispersion-hardened steels. Physics of Particles and Nuclei Letters, 2013, 10, 157-161.	0.1	2

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73	Frustrated pentagonal Cairo lattice in the non-collinear antiferromagnet Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Na</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>Ion Diffusion Inherently Linked to Structural Transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Na</mml:mi><mml:mn>0.7</mml:mn></mml:msub><mml:mi>CoO</mml:mi><mml:mn>2</mml:mn></mml:math>. Physical Review Letters, 2012, 109, .	2.9	59
74	Two types of adjacent dimer layers in the low-temperature phase of BaCuSi2O6. Physical Review B, 2012, 86, .	1.1	23
75	The synthesis, and crystal and magnetic structure of the iron selenide BaFe2Se3with possible superconductivity atTc= 11 K. Journal of Physics Condensed Matter, 2012, 24, 059502.	1.1	13
76	Structural and magnetic properties of La_{0.5}Ba_{0.5}CoO_{3-Î´}cobaltites. Journal of Physics: Conference Series, 2012, 391, 012106.	0.7	3
77	Reversible hydrogen absorption in sodium intercalated fullerenes. International Journal of Hydrogen Energy, 2012, 37, 14307-14314.	0.3	5
78	On the high-temperature phase of barbituric acid. CrystEngComm, 2012, 14, 3046.	3.8	47
79	New spinel oxide catalysts for visible-light-driven water oxidation. RSC Advances, 2012, 2, 3076.	1.3	21
80	Large spontaneous magnetostriction in FeTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and adjustable magnetic configuration in Fe(III)-doped FeTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	1.7	27
81	In Situ Neutron Diffraction Study of the Deuteration of Isotopic Mg¹¹B₂. Journal of Physical Chemistry C, 2011, 115, 22669-22679.	1.1	11
82	High-Temperature Behavior and Polymorphism in Novel Members of the Perovskite Family Pb2LnSbO6(Ln = Ho, Er, Yb, Lu). Inorganic Chemistry, 2011, 50, 5545-5557.	1.5	35
83	Silicon Location in Silicate-Substituted Calcium Phosphate Ceramics Determined by Neutron Diffraction. Crystal Growth and Design, 2011, 11, 4017-4026.	1.9	10
84	Unexpected Mechanism of Zn²⁺ Insertion in Calcium Phosphate Bioceramics. Chemistry of Materials, 2011, 23, 3072-3085.	1.4	58
85	Low-temperature structural anomalies in Pr0.5Sr0.5CoO3. JETP Letters, 2011, 93, 263-268.	3.2	84
86	Pb2.85Ba2.15Fe4SnO13: A new member of the AnBnO3nâ^'2 anion-deficient perovskite-based homologous series. Journal of Solid State Chemistry, 2011, 184, 3150-3157.	0.4	13
87	Antiferroelectric (Pb,Bi)1â^'xFe1+xO3â^'yPerovskites Modulated by Crystallographic Shear Planes. Chemistry of Materials, 2011, 23, 255-265.	1.4	9
88	Iron 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:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	33
89	Phase diagram of SrOâ€“InO1.5â€“CoOx and a new compound Sr3In0.9Co1.1O6. Journal of Solid State Chemistry, 2011, 184, 888-892.	1.1	88
90		1.4	4

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91	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.	0.7	43
92	Slicing the Perovskite Structure with Crystallographic Shear Planes: The AnBnO3nâ^'2Homologous Series. Inorganic Chemistry, 2010, 49, 9508-9516.	1.9	23
93	The AFeO2 (A=K, Rb and Cs) family: A comparative study of structures and structural phase transitions. Journal of Solid State Chemistry, 2010, 183, 752-759.	1.4	40
94	Synthesis, structural characterization and Li+ ion conductivity of a new vanado-molybdate phase, LiMg3VMo2O12. Journal of Solid State Chemistry, 2010, 183, 2589-2597.	1.4	10
95	Preparation and structural study from neutron diffraction data of Pr5Mo3O16. Journal of Solid State Chemistry, 2010, 183, 2974-2978.	1.4	34
96	Crystal structure and magnetic properties of TbFe0.4Ge2 compound. Journal of Magnetism and Magnetic Materials, 2010, 322, 2195-2198.	1.0	1
97	Antiferromagnetic square-modulated structure in HoRhSn. Solid State Communications, 2010, 150, 1291-1294.	0.9	5
98	A neutron diffraction study of structural and magnetic transformations in AFeO₂(A = K,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	12
99	Crystal structure of ErFe2D3.1 and ErFe2H3.1 at 450K. Journal of Alloys and Compounds, 2010, 508, 348-353.	2.8	6
100	An Original Polymorph Sequence in the High-Temperature Evolution of the Perovskite Pb₂TmSbO₆. Journal of the American Chemical Society, 2010, 132, 14470-14480.	6.6	27
101	Evidence for the strong effect of quenched correlated disorder on phase separation and magnetism in (La_{1 â^' y}Pr_y)_{0.7}Ca_{0.3}MnO₃. Journal of Physics Condensed Matter, 2010, 22, 115601.	0.7	6
102	Reversible photoswitching between nitrito-N and nitrito-O isomers in trans-[Ru(py)4(NO2)2]. Physical Chemistry Chemical Physics, 2010, 12, 6171.	1.3	33
103	Competition between ferromagnetic and antiferromagnetic ground states in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:mr high pressures. Physical Review B, 2010, 82, .	3.1	48
104	Microstructure, surface composition and chemical stability of partly ordered LaTiO2N. Solid State Sciences, 2009, 11, 1513-1519.	1.5	42
105	Structural properties of determined from high-resolution synchrotron powder diffraction. Journal of Solid State Chemistry, 2009, 182, 1188-1192.	1.4	14
106	Effect of Y-doping on the magnetic and charge orderings in Nd2/3Ca1/3MnO3. Journal of Magnetism and Magnetic Materials, 2009, 321, 316-320.	1.0	14
107	Structure of the Orthorhombic Î³-Phase and Phase Transitions of Ca(BD4)2. Journal of Physical Chemistry C, 2009, 113, 17223-17230.	1.5	37
108	Correlation of chemical coordination and magnetic ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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109	Intermediate-valence behavior of the transition-metal oxideCaCu3Ru4O12. Physical Review B, 2009, 80, .	1.1	26
110	Single-Ion Anisotropy and Exchange Interactions in the Cyano-Bridged Trimers Mn^{III}₂M^{III}(CN)₆ (M^{III} = Co, Cr, Fe) Species Incorporating [Mn(5-Brsalen)]⁺ Units: An Inelastic Neutron Scattering and Magnetic Susceptibility Study. Inorganic Chemistry, 2009, 48, 128-137.	1.9	48
111	Effect of isotopic composition and microstructure on the crystalline and magnetic phase states in R0.5Sr0.5MnO3. Journal of Experimental and Theoretical Physics, 2008, 106, 528-541.	0.2	7
112	Crystal structure of the low-temperature forms of cesium and rubidium orthophosphates. Inorganic Materials, 2008, 44, 646-652.	0.2	10
113	Successive structural phase transitions in Pr0.5Sr0.5CoO3 in the range 10â€“1120 K. JETP Letters, 2008, 88, 531-536.	0.4	13
114	Hydrogen induced site depopulation in the LaMgNi4-hydrogen system. Zeitschrift FÃ¼r Kristallographie, 2008, 223, .	1.1	33
115	Structure of Ca(BD4)2 Î²-Phase from Combined Neutron and Synchrotron X-ray Powder Diffraction Data and Density Functional Calculations. Journal of Physical Chemistry B, 2008, 112, 8042-8048.	1.2	91
116	Crystal structure, phase transition, and magnetic ordering in perovskitelike<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pb</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2008, 78, .	1.1	29
117	Oxygen Self-Doping in Hollandite-Type Vanadium Oxyhydroxide Nanorods. Journal of the American Chemical Society, 2008, 130, 11364-11375.	6.6	39
118	Hydrogen Absorption in Transition Metal Silicides: La3Pd5Si-Hydrogen System. Inorganic Chemistry, 2008, 47, 6303-6313.	1.9	4
119	Noncentrosymmetric commensurate magnetic ordering of multiferroic ErMn₂O₅. Journal of Physics Condensed Matter, 2008, 20, 485216.	0.7	12
120	Low-temperature thermal expansion in sphalerite-type and chalcopyrite-type multinary semiconductors. Journal of Physics Condensed Matter, 2008, 20, 104245.	0.7	4
121	Dynamical properties and temperature induced molecular disordering of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiBH</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiBD</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:	1.1	69
122	High-pressure behavior of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Cs</mml:mi><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>graphite intercalation compound: Lattice structures and phase-transition mechanism. Physical Review B, 2008, 77, .	1.1	11
123	Hydrothermal synthesis of anisotropic alkali and alkaline earth vanadates. Journal of Materials Research, 2007, 22, 5-18.	1.2	15
124	Effect of oxygen isotope substitution and crystal microstructure on magnetic ordering and phase separation in(La1âˆ’yPry)0.7Ca0.3MnO3. Physical Review B, 2007, 75, .	1.1	20
125	Crystal and magnetic structures of the spin-trimer compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ca</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>x</mml:mi></mml:mrow>		

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127	Crystal Structures and in-Situ Formation Study of Mayenite Electrides. Inorganic Chemistry, 2007, 46, 4167-4176.	1.9	82
128	Low temperature crystal structures of apatite oxygen-conductors containing interstitial oxygen. Dalton Transactions, 2007, , 2058-2064.	1.6	29
129	Multi-step magnetic ordering in frustrated thiospinel MnSc2S4. Journal of Physics Condensed Matter, 2007, 19, 145262.	0.7	6
130	Structure of calcium aluminate decahydrate (CaAl₂O₄Â·10D₂O) from neutron and X-ray powder diffraction data. Acta Crystallographica Section B: Structural Science, 2007, 63, 850-861.	1.8	14
131	Simultaneous antiferromagnetic Fe3+and Nd3+ordering in NdFe3(11BO3)4investigated by single crystal neutron diffraction. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s92-s92.	0.3	0
132	High-temperature order-disorder transition and polaronic conductivity inPrBaCo2O5.48. Physical Review B, 2006, 73, .	1.1	93
133	Simultaneous antiferromagnetic Fe3+and Nd3+ordering in NdFe3(11BO3)4. Journal of Physics Condensed Matter, 2006, 18, 7975-7989.	0.7	65
134	Sr3Fe5/4Mo3/4O6.9, an n = 2 Ruddlesdenâ"Popper Phase: Synthesis and Properties. Chemistry of Materials, 2006, 18, 3448-3457.	3.2	19
135	Synthesis and Characterization of Novel Fluorinated Poly(oxomolybdates). Inorganic Chemistry, 2006, 45, 5641-5652.	1.9	23
136	Directional metal-hydrogen bonding in interstitial hydrides. Journal of Alloys and Compounds, 2006, 413, 106-113.	2.8	14
137	Cation disorder and anion displacement in DIIXVI â€“ AIBIIIXVI2 semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2614-2617.	0.8	1
138	On the Decomposition of Synthetic Gibbsite Studied by Neutron Thermodiffractometry. Journal of the American Ceramic Society, 2006, 89, 3728-3733.	1.9	60
139	Crystal structure of the low-temperature form of K3PO4. Inorganic Materials, 2006, 42, 908-913.	0.2	20
140	Oxygen orderâ€"disorder phase transition in PrBaCo2O5.48 at high temperature. Physica B: Condensed Matter, 2006, 378-380, 539-540.	1.3	19
141	Spin liquid versus spin solid in A-site spinels. Physica B: Condensed Matter, 2006, 378-380, 583-584.	1.3	24
142	Evidence for the band ferromagnetism in SrRuO3 from neutron diffraction. Journal of Magnetism and Magnetic Materials, 2006, 305, 491-496.	1.0	69
143	Quantitative phase analysis in microstructures which display multiple step martensitic transformations in Ni-rich NiTi shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 593-596.	2.6	50
144	Neutron diffraction study of the magnetic structure of Na2 RuO 4. European Physical Journal B, 2006, 52, 371-376.	0.6	6

#	Article	IF	Citations
145	Structural origin of the giant oxygen isotope effect in Re0.5Sr0.5MnO3 perovskites. Physica B: Condensed Matter, 2006, 385-386, 94-96.	1.3	0
146	Where the atoms are: Cation disorder and anion displacement in DIIXVIâ€“AIBIIIXVI2 semiconductors. Physica B: Condensed Matter, 2006, 385-386, 571-573.	1.3	6
147	Magnetic ordering in DyRhSn. Journal of Magnetism and Magnetic Materials, 2006, 296, 89-93.	1.0	17
148	Magnetic ordering and spin excitations in the frustrated magnetMnSc2S4. Physical Review B, 2006, 73, .	1.1	47
149	Primary crystallization fields, growth features and properties of rare earth and barium-based cobaltates. Journal of Crystal Growth, 2005, 275, e813-e818.	0.7	14
150	Magnetic neutron diffraction in. Physica B: Condensed Matter, 2005, 359-361, 1255-1257.	1.3	1
151	Synthesis and Properties of Barium Ferrigermanate Ba[sub 2]Fe[sub 2]GeO[sub 7]. Physics of the Solid State, 2005, 47, 2114.	0.2	3
152	Magnetostructural phase separation and giant isotope effect in R0.5Sr0.5MnO3. JETP Letters, 2005, 82, 594-598.	0.4	6
153	Magnetic states and the crystal volume of Nd2/3Ca1/3MnO3: analysis of phase transformations. Journal of Magnetism and Magnetic Materials, 2005, 293, 787-792.	1.0	17
154	Crystal growth features and properties of layered rare earth and barium cobaltates. Crystal Research and Technology, 2005, 40, 395-399.	0.6	17
155	Crystal structure and cation distribution in the solid solution series 2(ZnX)â€“CuInX2 (X=S, Se, Te). Journal of Physics and Chemistry of Solids, 2005, 66, 1961-1965.	1.9	24
156	Interstitial oxygen in oxygen-stoichiometric apatites. Journal of Materials Chemistry, 2005, 15, 2489.	6.7	106
157	High Oxide Ion Conductivity in Al-Doped Germanium Oxyapatite. Chemistry of Materials, 2005, 17, 596-600.	3.2	84
158	On the effect of aging on martensitic transformations in Ni-rich NiTi shape memory alloys. Smart Materials and Structures, 2005, 14, S186-S191.	1.8	46
159	Pressure-Induced Quantum Phase Transition in the Spin-LiquidTlCuCl3. Physical Review Letters, 2004, 93, 257201.	2.9	98
160	Crystal and magnetic structure of the Sm0.55Sr0.45MnO3 and (Nd0.545Tb0.455)0.55Sr0.45MnO3 manganites. Physics of the Solid State, 2004, 46, 1704-1710.	0.2	9
161	Neutron scattering study of PbMg $_{mathsf{1/3}}$Ta $_{mathsf{2/3}}$O$_{mathsf 3}$ and BaMg $_{mathsf{1/3}}$Ta $_{mathsf{2/3}}$O$_{mathsf 3}$ complex perovskites. European Physical Journal B, 2004, 40, 235-241.	0.6	16
162	Neutron diffraction, specific heat and Î¼SR study of the spin-chain compounds Ca2+xY2âˆ’xCu5O10. Physica B: Condensed Matter, 2004, 350, E257-E259.	1.3	1

#	Article	IF	Citations
163	Anomalous structural behaviour of Zn-doped LiV2O4. Physica B: Condensed Matter, 2004, 350, E297-E299.	1.3	3
164	Structural phase transitions in the cyano-elpasolite CS2NaCo(CN)6, a neutron diffraction study. Physica B: Condensed Matter, 2004, 350, E379-E382.	1.3	0
165	Structures and Phase Transition of Vaterite-Type Rare Earth Orthoborates: A Neutron Diffraction Study.. ChemInform, 2004, 35, no.	0.1	0
166	Comparative study of the magnetic phase diagrams of (La1âˆ'yPry)0.7Ca0.3MnO3 with oxygen isotopes 16O and 18O. Physica B: Condensed Matter, 2004, 350, E1-E3.	1.3	3
167	Atomic and magnetic structures, phase separation, and unconventional superexchange interactions in Sr2GaMnO5+x (0<x<0.5) and Sr2GaMn(O,F)6. Physica B: Condensed Matter, 2004, 350, E23-E26.	1.3	3
168	Atomic and magnetic structures, and unconventional superexchange interactions in Sr2GaMnO5+ (0<x<0.5) and Sr2GaMn(O,F)6. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 820-822.	1.0	4
169	Exchange interactions and magnetic subsystems in Nd2/3Ca1/3MnO3: analysis of temperature effects. Physica B: Condensed Matter, 2004, 350, E9-E12.	1.3	2
170	Structures and Phase Transition of Vaterite-Type Rare Earth Orthoborates:â€‰ A Neutron Diffraction Study. Chemistry of Materials, 2004, 16, 2418-2424.	3.2	96
171	Synthesis and Crystal Structure of Lithium Beryllium Deuteride Li2BeD4. Inorganic Chemistry, 2004, 43, 6371-6376.	1.9	17
172	Magnetic structure ofNdMnO3consistently doped withSrandRu. Physical Review B, 2004, 70, .	1.1	17
173	Crystal and magnetic structure of the Ca3Mn2O7Ruddlesdenâ€“Popper phase: neutron and synchrotron x-ray diffraction study. Journal of Physics Condensed Matter, 2004, 16, 5339-5348.	0.7	69
174	Crystalchemistry and Oxide Ion Conductivity in the Lanthanum Oxygermanate Apatite Series. Chemistry of Materials, 2003, 15, 2099-2108.	3.2	110
175	Thermal, structural and transport properties of the fast oxide-ion conductors La2âˆ'xRxMo2O9 (R=Nd,) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	172
176	High-Pressure neutron diffraction study of the Nd1.85Ce0.15CuO4 structure. Crystallography Reports, 2003, 48, 374-376.	0.1	1
177	Sr6Mg7H26, a new saline high-pressure hydride with Ba6Zn7F26-type structure. Journal of Alloys and Compounds, 2003, 356-357, 128-132.	2.8	13
178	Hydrogenation induced valence change and metal atom site exchange at room temperature in the C14-type sub-structure of CeMn1.8Al0.2H4.4. Journal of Alloys and Compounds, 2003, 356-357, 673-678.	2.8	8
179	Atomic and magnetic structures, disorder effects, and unconventional superexchange interactions inA2MnGaO5+Î´(A=Sr,Ca)oxides of layered brownmillerite-type structure. Physical Review B, 2002, 66, .	1.1	36
180	The crystal and magnetic structure relationship in Cu(W1-xMox)O4compounds with wolframite-type structure. Journal of Physics Condensed Matter, 2002, 14, 8573-8581.	0.7	11

#	Article	IF	Citations
181	Crystal and magnetic structures of new layered oxides A 2 GaMnO 5+y (A=Ca, Sr). Applied Physics A: Materials Science and Processing, 2002, 74, s1734-s1736.	1.1	10
182	Oxygen-isotope effect on crystal and magnetic structures of (La 1-y Pr y) 0.7 Ca 0.3 MnO 3. Applied Physics A: Materials Science and Processing, 2002, 74, s1737-s1739.	1.1	1
183	Bi,Pb(2223) equilibrium and decomposition: in situ high-temperature neutron diffraction study. Physica C: Superconductivity and Its Applications, 2002, 372-376, 895-898.	0.6	11
184	Evolution of (La 1 - y Pr y) 0.7 Ca 0.3 MnO 3 crystal structure with A-cation size, temperature, and oxygen isotope substitution. European Physical Journal B, 2001, 19, 215-223.	0.6	31
185	Enhancement ofTcinHgBa2Ca2Cu3O8+Î´by fluorination. Physical Review B, 2001, 63, .	1.1	44
186	Real disordered crystal structure and Curie temperature of intermetallic compounds Y2Fe17â^'xMx (M=Si or Al). Journal of Alloys and Compounds, 2001, 315, 82-89.	2.8	15
187	Synthesis and Crystal Structure of Novel Layered Manganese Oxide Ca2MnGaO5+Î´. Journal of Solid State Chemistry, 2001, 158, 100-111.	1.4	51
188	Crystal Structure and Magnetic Properties of the Novel Oxide Pb2V5O12. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 2143.	0.6	6
189	Magnetization anisotropy of the Tm- and Fe-subsystems in Tm2Fe17. Journal of Magnetism and Magnetic Materials, 2001, 237, 158-168.	1.0	19
190	Long-scale phase separation versus homogeneous magnetic state in(La1â^'yPry)0.7Ca0.3MnO3:A neutron diffraction study. Physical Review B, 2001, 64, .	1.1	62
191	Crystal structure and lattice dynamic effects of rare-earth hexaborides under hydrostatic pressure. Physica B: Condensed Matter, 2000, 276-278, 320-321.	1.3	1
192	Isotopically driven transitions in LaPrCaMnO system. Physica B: Condensed Matter, 2000, 280, 323-324.	1.3	0
193	Atomic and magnetic structure of perovskite manganites: A-cation size and oxygen isotope substitution effects and homogeneity of magnetic state. Physica B: Condensed Matter, 2000, 276-278, 536-539.	1.3	5
194	Effect of fluorination and high pressure on the structure and properties of the Hg-bearing superconducting Cu mixed oxides. Physica C: Superconductivity and Its Applications, 2000, 338, 52-59.	0.6	20
195	Effect of fluorination on the structure and properties of Hg-based superconducting Cu mixed oxides. Physica C: Superconductivity and Its Applications, 2000, 341-348, 579-580.	0.6	3
196	Magnetic and structural properties of Y2Fe15Â·3Si1Â·7alloy under high pressure. High Pressure Research, 2000, 17, 193-200.	0.4	2
197	Investigation of Nd2CuO4crystal structure at high pressure by neutron diffraction. High Pressure Research, 2000, 17, 201-207.	0.4	3
198	Structure ofHgBa2CuO4+Î´(0.06<Î´<0.19)at ambient and high pressure. Physical Review B, 1999, 59, 7209-7215.	1.1	40

#	Article	IF	Citations
199	DN-12 time-of-flight high-pressure neutron spectrometer for investigation of microsamples. Physica B: Condensed Matter, 1999, 265, 258-262.	1.3	89
200	Structure of non-phase-separated La2CuO4.03 studied by single-crystal neutron diffraction. Physica C: Superconductivity and Its Applications, 1999, 321, 103-107.	0.6	6
201	Changes in the magnetic structure of (La0.25Pr0.75)0.7Ca0.3MnO3 upon the isotopic substitution of 18O for 16O. JETP Letters, 1999, 69, 50-56.	0.4	6
202	Effect of oxygen isotope substitution on the magnetic structure of(La0.25Pr0.75)0.7Ca0.3MnO3. Physical Review B, 1999, 60, 383-387.	1.1	54
203	Investigation of the Hg-1201 structure under external pressure up to 5 GPa by means of neutron powder diffraction. Physica B: Condensed Matter, 1997, 234-236, 940-941.	1.3	2
204	Time-of-flight neutron diffractometer for investigation of microsamples under high external pressure. Physica B: Condensed Matter, 1997, 241-243, 219-220.	1.3	1
205	Investigation of the HgBa2CuO4+Î´ structure under external pressures up to 5 GPa by neutron powder diffraction. Physica C: Superconductivity and Its Applications, 1997, 275, 87-92.	0.6	28