Peter Berdonosov

List of Publications by Year
in descending order

72	1,202	448610 19	488211 31
papers	citations	h-index	g-index

85	85	85	1087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cu9O2(SeO3)4Cl6 revisited: Crystal structure, Raman scattering and first-principles calculations. Journal of Alloys and Compounds, 2022, 894, 162291.	2.8	2
2	New europium selenate (Vi) tetrahydrate: Crystal structure and optical properties. Journal of Solid State Chemistry, 2022, 311, 123090.	1.4	0
3	Optical Spectroscopy of Kramers Doublets of an Er3+ Ion in a Two-Dimensional Frustrated Magnetic Cu3Er(SeO3)2O2Cl. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2021, 129, 47-50.	0.2	3
4	Francisites as new geometrically frustrated quasi-two-dimensional magnets. Physics-Uspekhi, 2021, 64, 344-356.	0.8	8
5	Quasi-1D XY antiferromagnet Sr2Ni(SeO3)2Cl2 at Sakai-Takahashi phase diagram. Scientific Reports, 2021, 11, 15002.	1.6	1
6	Cadmium copper selenite chloride, CdCu2(SeO3)2Cl2, an insulating spin gap system. Journal of Solid State Chemistry, 2021, 303, 122518.	1.4	0
7	Sr8MSm1-Eu (PO4)7 phosphors derived by different synthesis routes: Solid state, sol-gel and hydrothermal, the comparison of properties. Journal of Alloys and Compounds, 2021, 887, 161340.	2.8	9
8	Quasi-doublets of non-Kramers Ho3+ ion and magnetic ordering of holmiumfrancisite-analog Cu3Ho(SeO3)2O2Cl. Low Temperature Physics, 2021, 47, 1022-1029.	0.2	2
9	Magnetic structure study of the sawtooth chain antiferromagnet $$hbox {Fe}_2hbox {Se}_2hbox {O}_7$$. Scientific Reports, 2021, 11, 24049.	1.6	6
10	Magnetic hyperfine interactions in a sawtooth chain iron oxoselenite Fe2O(SeO3)2: Experimental and theoretical Investigation. Journal of Alloys and Compounds, 2020, 822, 153549.	2.8	4
11	The complete series of sodium rare-earth metal(III) chloride oxotellurates(IV) Na₂ <i>RE</i> ₃Cl₃[TeO₃]₄ (<i>RE</i>Â=ÂY, Laâ€"Nd, Smâ€"Lu). Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 341-352.	0.4	3
12	Short-range and long-range magnetic order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:m mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi>Cl</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	2
13	Thermodynamic properties and rare-earth spectroscopy of Cu3Nd(SeO3)2O2X (Xâ€¯=â€¯Cl, Br). Journal of Magnetism and Magnetic Materials, 2019, 492, 165721.	1.0	11
14	Flat-band spin dynamics and phonon anomalies of the saw-tooth spin-chain system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mo>(</mml:mo><mml:msub><mml:mi>SeO</mml:mi><mml:mn>3</mml:mn></mml:msub>< Physical Review B, 2019, 99, .	1.1	16
15	Magnetism of coupled spin tetrahedra in ilinskite-type KCu5O2(SeO3)2Cl3. Scientific Reports, 2018, 8, 2379.	1.6	17
16	Transition Metal Selenite Halides: A Fascinating Family of Magnetic Compounds. Crystals, 2018, 8, 159.	1.0	25
17	Synthesis and crystal structure of Fe[(Te 1.5 Se 0.5)O 5]Cl, the first iron compound with selenate(IV) and tellurate(IV) groups. Solid State Sciences, 2017, 74, 37-43.	1.5	3
18	Lattice and magnetic instabilities in <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">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Bi</mml:mi><mml:msub><mml:mrow><mml:mo>(</ mathvariant="normal">O</mml:mi><mml:mn. Physical Review B, 2017, 96, .	1.1	17

#	Article	IF	Citations
19	Magnetism of rare-earth and transition-metal subsystems in<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">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Yb</mml:mi><mml:msub><mml:mrow><mml:mo>(	1.1	17
20	mathvariant="normal. Physical Review B, 2017, 96, . Static and dynamic magnetic properties of two synthetic francisites Cu3La(SeO3)2O2X (XÂ=ÂBr and Cl). Physics and Chemistry of Minerals, 2017, 44, 277-285.	0.3	19
21	Synthesis, Structures, and Luminescent Properties of Sodium Rareâ€Earth Metal(III) Chloride Oxotellurates(IV), Na₂Ln₃Cl₃[TeO₃]₄ (Ln = Sm,) Tj ETQq1 1 0.784314 rg	0.6	9
22	Magnetic, resonance, and optical properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Cl</mml:mi></mml:mrow></mml:math>: A rare-earth francisite compound. Physical Review B, 2016, 94, .	1.1	30
23	Two new lanthanide members of francisite family Cu3Ln(SeO3)2O2Cl (LnÂ=ÂEu, Lu). Journal of Alloys and Compounds, 2016, 685, 442-447.	2.8	25
24	Novel S = 1/2 Kagome Lattice Materials: Cs2TiCu3F12 and Rb2TiCu3F12. Crystals, 2015, 5, 226-243.	1.0	8
25	Cs7Sm11[TeO3]12Cl16 and Rb7Nd11[TeO3]12Br16, the new tellurite halides of the tetragonal Rb6LiNd11[SeO3]12Cl16 structure type. Journal of Solid State Chemistry, 2015, 232, 56-61.	1.4	9
26	Comparative study of helimagnets MnSi and<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: mathvariant="normal">O</mml:mi><mml:mi>Se</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>at high pressures. Physical Review B, 2014, 89, .	1.1	31
27	Thermodynamic properties, electron spin resonance, and underlying spin model in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">Y</mml:mi><mml:mo>(</mml:mo><mml:mi>SeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub> mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Cl</mml:mi></mml:mrow></mml:. Physical Review B, 2014, 90, .	1.1	30
28	Rareâ€Earth Cadmium Tellurite Chlorides with a Structural Type Exhibiting [Ln₁₂(TeO₃)₁₂] Slabs Alternating with CdCl₆ Octahedral Layers. European Journal of Inorganic Chemistry, 2014, 2014, 3140-3146.	1.0	9
29	Crystal Structure, Physical Properties, and Electronic and Magnetic Structure of the Spin S = ⁵/₂ Zigzag Chain Compound Bi₂Fe(SeO₃)₂OCl₃. Inorganic Chemistry, 2014, 53, 5830-5838.	1.9	23
30	Structural phase transitions in the kagome lattice based materials Cs_{2â^'x}Rb_xSnCu₃F₁₂ (x = 0, 0.5, 1.0, 1.5). CrystEngComm, 2014, 16, 7419-7425.	1.3	14
31	Crystal structures and variable magnetism of PbCu2(XO3)2Cl2 with X = Se, Te. Dalton Transactions, 2013, 42, 9547.	1.6	33
32	Cs₇Nd₁₁(SeO₃)₁₂Cl₁₆: First Noncentrosymmetric Structure among Alkaline-Metal Lanthanide Selenite Halides. Inorganic Chemistry, 2013, 52, 3611-3619.	1.9	19
33	Bi6(SeO3)3O5Br2: A new bismuth oxo-selenite bromide. Journal of Solid State Chemistry, 2012, 196, 232-237.	1.4	7
34	Lead (II) selenite halides Pb3(SeO3)2 X 2 (X = Br, I): Synthesis and crystal structure. Crystallography Reports, 2012, 57, 200-204.	0.1	5
35	CaCu<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:mrow></mml:msub></mml:mrow></mml:math>(SeO<mml:math) Tj ETQq1 1 0.784314	1.1	14
36	Preparation of Pb2B5O9Br-based nonlinear optical glass-matrix composites. Inorganic Materials, 2011, 47, 806-809.	0.2	2

#	Article	IF	Citations
37	Synthesis and Structural Characterization of New Phases in the Cubic M3Te2O6X2 (M = Sr, Ba; X = Cl,) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	10
38	Strontium nickel and barium nickel selenites: Synthesis and X-ray diffraction parameters. Russian Journal of Inorganic Chemistry, 2010, 55, 6-12.	0.3	1
39	A group of new selenite-chlorides of strontium and d-metals (Co,Ni): Synthesis, thermal behavior and crystal chemistry. Journal of Solid State Chemistry, 2009, 182, 77-82.	1.4	12
40	Strontiumâ€“copper seleniteâ€“chlorides: Synthesis and structural investigation. Journal of Solid State Chemistry, 2009, 182, 2368-2373.	1.4	16
41	Leadâ€“strontium borate halides with hilgardite-type structure and their SHG properties. Journal of Solid State Chemistry, 2008, 181, 1891-1898.	1.4	53
42	Copper lanthanide selenite oxohalides with francisite structure: Synthesis and structural characteristics. Russian Journal of Inorganic Chemistry, 2008, 53, 1353-1358.	0.3	21
43	The synthesis and crystal structures of the first rare-earth alkaline-earth selenite chlorides MNd10(SeO3)12Cl8 (M=Ca and Sr). Journal of Solid State Chemistry, 2007, 180, 3019-3025.	1.4	10
44	SrSeO3from a combined X-ray and neutron powder diffraction study. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, i149-i150.	0.2	5
45	The crystal structure of a new bismuth tellurium oxychloride Bi0.87Te2O4.9Cl0.87 from neutron powder diffraction data. Journal of Solid State Chemistry, 2007, 180, 1533-1537.	1.4	5
46	Synthesis of novel LaOAgS-type cation-deficient bismuth oxyhalides. Journal of Alloys and Compounds, 2006, 413, 40-45.	2.8	8
47	Tricaesium undecalanthanum dodecaselenate(IV) dodecachloride. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, i29-i31.	0.2	5
48	Phase relations and crystal structures in the systems (Bi,Ln)2WO6 and (Bi,Ln)2MoO6 (Ln=lanthanide). Journal of Solid State Chemistry, 2006, 179, 3437-3444.	1.4	28
49	A reinvestigation of SillÃ©n X1-type lead tellurium oxyhalides, Pb3TeO4X2 (X = Cl, Br, I). Solid State Sciences, 2006, 8, 1029-1034.	1.5	12
50	On the crystal structures of SrTeO3. Solid State Sciences, 2006, 8, 830-835.	1.5	14
51		1.5	54
52	Second harmonic generation in boracites. Inorganic Materials, 2005, 41, 393-396.	0.2	5
53	Thermochemische Untersuchungen zum quasibinÃren System YbOCl/SeO2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 669-677.	0.6	6
54	Nd2(SeO3)2(SeO4)Â· 2H2Oâ€“ a Mixed-Valence Compound containing Selenium in the Oxidation States+IV and+VI. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 1395-1400.	0.6	11

#	Article	IF	Citations
55	Thermochemical Investigations on the Pseudobinary System YbOCl/SeO2.. ChemInform, 2004, 35, no.	0.1	1
56	Nd2(SeO3)2 (SeO4)Ã—2H2O â€" A Mixed-Valence Compound Containing Selenium in the Oxidation States +IV and +VI.. ChemInform, 2004, 35, no.	0.1	0
57	Bi2â^'xLnxWO6: a novel layered structure type related to the Aurivillius phases. Journal of Solid State Chemistry, 2004, 177, 2632-2634.	1.4	28
58	Title is missing!. Russian Chemical Bulletin, 2003, 52, 98-102.	0.4	4
59	Synthesis and Powder X-Ray Diffraction Analysis of New Mixed Rare-Earth and Selenium Oxychlorides with Composition LnSeO3Cl.. ChemInform, 2003, 34, no.	0.1	0
60	Investigation on the System SmOBr/SeO2.. ChemInform, 2003, 34, no.	0.1	0
61	Hydrothermal synthesis and crystal structure of ErSeO3Cl. Journal of Solid State Chemistry, 2003, 174, 111-115.	1.4	8
62	A reinvestigation of quaternary layered bismuth oxyhalides of the SillÃ©n X1 type. Journal of Solid State Chemistry, 2003, 175, 316-321.	1.4	55
63	Untersuchungen zum System SmOCl/SeO2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2002, 628, 891.	0.6	10
64	Crystal Structure and SHG Characterization of Î³-BiSeO3Cl. Inorganic Materials, 2002, 38, 1291-1296.	0.2	8
65	A New Bismuthâ€"Selenium Oxychloride, BiSeO3Cl: Crystal Structure and Dielectric and Nonlinear Optical Properties. Journal of Solid State Chemistry, 2000, 149, 236-241.	1.4	49
66	The crystal structures of BiTeO3I, NdTeO3X (X=Cl, Br) and Bi5TeO8.5I2: some crystal chemistry peculiarities of layered Bi(Ln)î—¸Te oxyhalides. Solid State Sciences, 2000, 2, 553-562.	1.5	29
67	The Crystal Structure of the New REEâ€"Te Oxychlorides: NdTe2O5Cl and GdTe2O5Cl. Journal of Solid State Chemistry, 1999, 146, 473-477.	1.4	35
68	A Novel Family of Layered Bismuth Compounds. Journal of Solid State Chemistry, 1999, 147, 527-535.	1.4	38
69	Novel lanthanoidâ€"cadmium oxide pnictides with the tetragonal LaOAgS structure. Journal of Alloys and Compounds, 1999, 292, 118-123.	2.8	13
70	Structural characterization of lead (II) oxybromide Pb3O2Br2. Materials Research Bulletin, 1996, 31, 717-722.	2.7	19
71	Powder X-Ray and IR Studies of the New Oxyselenides MOCuSe (M = Bi, Gd, Dy). Journal of Solid State Chemistry, 1995, 118, 74-77.	1.4	56
72	New Layered Compounds with the General Composition (MO) (CuSe), Where M = Bi, Nd, Gd, Dy, and BiOCuS: Syntheses and Crystal Structure. Journal of Solid State Chemistry, 1994, 112, 189-191.	1.4	116