

Vladimir Shirokov

List of Publications by Year in descending order

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686830

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565
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration phase diagram of $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ solid solutions. Physical Review B, 2006, 73, .	1.1	74
2	Phenomenological theory of phase transitions in epitaxial BaTiO_3 films. Physical Review B, 2009, 79, .	1.1	69
3	Phenomenological theory of phase transitions in epitaxial BaTiO_3 thin films. Physical Review B, 2007, 75, .	1.1	64
4	Phenomenological description of phase transitions in thin BaTiO_3 films. Physics of the Solid State, 2008, 50, 928-936.	0.2	28
5	Atomic order in the spinel structure – a group-theoretical analysis. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 49-63.	0.0	26
6	Material constants of $(\text{Ba,Sr})\text{TiO}_3$ solid solutions. Physics of the Solid State, 2013, 55, 773-779.	0.2	25
7	Anion order in perovskites: a group-theoretical analysis. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 222-235.	0.0	25
8	Pseudoamorphization of Cs_2HgBr_4 . Physical Review B, 2003, 68, .	1.1	23
9	Tilting structures in spinels. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 595-606.	0.3	17
10	Tilting structures in perovskites. Crystallography Reports, 2004, 49, 20-28.	0.1	16
11	Structure and lattice dynamics of heterostructures based on bismuth ferrite and barium strontium titanate on magnesium oxide substrates. Physics of the Solid State, 2010, 52, 1432-1438.	0.2	15
12	Unique atom hyper-kagome order in $\text{Na}_4\text{Ir}_3\text{O}_8$ and in low-symmetry spinel modifications. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 301-318.	0.0	15
13	Phenomenological description of thin SrTiO_3 films. Physics of the Solid State, 2009, 51, 1025-1032.	0.2	14
14	Polarization of thin barium-strontium titanate films by an external electric field. Technical Physics, 2011, 56, 1175-1180.	0.2	13
15	Phenomenological theory of phase transitions in epitaxial $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ thin films on (111)-oriented cubic substrates. Journal of Applied Physics, 2015, 118, 024101.	1.1	13
16	Group-theoretical study of cationic ordering in perovskite structure. Crystallography Reports, 2014, 59, 650-661.	0.1	12
17	Competition between rotational and polar structural distortions in perovskites. Crystallography Reports, 2005, 50, 637-645.	0.1	11
18	Anomalies of piezoelectric coefficients in barium titanate thin films. Europhysics Letters, 2014, 108, 47008.	0.7	11

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19	Material constants of barium titanate thin films. <i>Physics of the Solid State</i> , 2015, 57, 1535-1540.	0.2	11
20	Theory of the formation of the ordered $\text{LiZn}_0.5\text{Mn}_{1.5}\text{O}_4$ phase. <i>Crystallography Reports</i> , 2013, 58, 314-318.	0.1	10
21	Phase Diagrams of $\text{BaTiO}_3/\text{BaZrO}_3$ Superlattices. <i>Ferroelectrics</i> , 2013, 444, 168-176.	0.3	10
22	Phase transitions in BaTiO_3 thin films and $\text{BaTiO}_3/\text{BaZrO}_3$ superlattices. <i>Journal of Applied Physics</i> , 2014, 116, 184102.	1.1	10
23	Phenomenological thermodynamics and the structure formation mechanism of the CuTi_2S_4 rhombohedral phase. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10600-10606.	1.3	10
24	Vanadium clusters formation in geometrically frustrated spinel oxide AlV_2O_4 . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 337-353.	0.5	10
25	Raman Spectra of Cadmium Titanate. <i>Physics of the Solid State</i> , 2005, 47, 337.	0.2	9
26	Crystal chemistry and formation mechanism of tetragonal MgTi_2O_4 . <i>Inorganic Materials</i> , 2011, 47, 990-998.	0.2	9
27	Rotational polar structural distortions in $\text{Pb}_{1-x}\text{Ca}_x\text{TiO}_3$ solid solutions from Raman spectroscopic data. <i>Physics of the Solid State</i> , 2006, 48, 919-928.	0.2	8
28	Effect of mechanical activation on physical properties of relaxor ferroelectric $\text{Pb}_2\text{ScNbO}_6$ ceramics. <i>Technical Physics Letters</i> , 2011, 37, 952-955.	0.2	8
29	Basis of invariants for multiferroic. <i>Crystallography Reports</i> , 2011, 56, 475-476.	0.1	8
30	Theory of structural phase transition in MgTi_2O_4 . <i>Crystallography Reports</i> , 2015, 60, 101-110.	0.1	8
31	The problem of determining elastic constants of thin ferroelectric films. <i>Doklady Physics</i> , 2015, 60, 349-354.	0.2	8
32	Infrared spectra and lattice vibrations of the spin-chain compound LiCuVO_4 . <i>European Physical Journal B</i> , 2001, 23, 427-435.	0.6	7
33	Thickness dependence of the properties of epitaxial barium strontium titanate thin films. <i>Physics of the Solid State</i> , 2015, 57, 1529-1534.	0.2	7
34	Phase transitions in $\text{Bi}_4\text{Ti}_3\text{O}_{12}$. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 978-986.	0.5	7
35	Polar phonons in the antiferromagnetic $S=1/2$ spin-chain system CuSb_2O_6 . <i>Physical Review B</i> , 2003, 67, .	1.1	6
36	Phase transitions and structural mechanisms of the formation of LiCoO_2 polymorphic modifications. <i>Glass Physics and Chemistry</i> , 2007, 33, 596-607.	0.2	6

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37	Approximation of a transmission spectrum of MgO by a damped oscillator with relaxation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 112, 135-137.	0.2	6
38	Direct transition from the rhombohedral ferroelectric to the paraelectric phase in a (Ba,Sr)TiO ₃ thin film on a (111)MgO substrate. Europhysics Letters, 2015, 112, 47001.	0.7	6
39	Physical properties of Ba _{0.8} Sr _{0.2} TiO ₃ thin films. Physics of the Solid State, 2016, 58, 2035-2039.	0.2	6
40	Finite-element analysis of scattering parameters of surface acoustic wave bandpass filter formed on barium titanate thin film. International Journal of Smart and Nano Materials, 2018, 9, 88-98.	2.0	6
41	Optical Properties of Barium Strontium Niobate SBN61 Films. Physics of the Solid State, 2018, 60, 1005-1010.	0.2	6
42	Optical properties of thin epitaxial Ba _{0.8} Sr _{0.2} TiO ₃ films. Technical Physics, 2012, 57, 975-980.	0.2	5
43	Optical properties of BiFeO ₃ epitaxial thin films. Technical Physics, 2014, 59, 102-106.	0.2	5
44	Combined atomic ordering in the A and B sublattices of perovskite structure. Crystallography Reports, 2014, 59, 662-678.	0.1	5
45	Tunable pyroelectric properties of barium strontium titanate thin films. Journal of Physics Condensed Matter, 2017, 29, 185701.	0.7	5
46	Electric-field-dependent mechanical and electrical properties of barium strontium titanate films for tunable device applications. Thin Solid Films, 2018, 657, 8-15.	0.8	5
47	Tunable Electromechanical Properties of a Barium Strontium Titanate Ferroelectric Film Under a Uniaxial Stress. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2704-2709.	1.7	5
48	Anomalous change in the material moduli of thin films of barium titanate. Journal of Applied Mechanics and Technical Physics, 2015, 56, 1103-1110.	0.1	4
49	Ferroelectric superlattice based on barium strontium titanate solid solutions. Physics of the Solid State, 2015, 57, 2246-2251.	0.2	4
50	Lattice dynamics and structural distortions in the multiferroic (Ba,Sr)TiO ₃ /(Bi,Nd)FeO ₃ heterostructures. Thin Solid Films, 2017, 636, 220-224.	0.8	4
51	Phase transitions in random magnetic bilayer with the mean-field approximation. Physical Review B, 2006, 74, .	1.1	3
52	Relaxation of polarized states in thin films of BST. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 794-797.	0.1	3
53	Control of acoustic properties of a BaTiO ₃ thin film by a planar electric field. Europhysics Letters, 2015, 111, 16002.	0.7	3
54	Theory of the formation of P4 ₁ 32(P4 ₃ 32)-phase spinels. Crystallography Reports, 2016, 61, 159-169.	0.1	3

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55	Unique hyper-kagome atomic order in the noncentrosymmetric structure of Na ₃ Ir ₃ O ₈ . Inorganic Materials, 2016, 52, 815-823.	0.2	3
56	Unexpectedly high Curie temperature in weakly strained ferroelectric film. Physica Status Solidi (B): Basic Research, 2017, 254, 1600413.	0.7	3
57	Vibration Spectra and the Valence Force Field of the LiCuVO ₄ Crystal. Physics of the Solid State, 2005, 47, 539.	0.2	2
58	Invar effect accompanying charge order in La _{0.25} Ca _{0.75} MnO ₃ . Solid State Sciences, 2017, 72, 144-149.	1.5	2
59	Unique hyper-kagome atomic order in geometrically frustrated iridium spinel-like structures. Russian Chemical Bulletin, 2017, 66, 1719-1727.	0.4	2
60	Group-Theoretical Classification of Aristotypes of Cation and Anion Orders in Perovskites. Crystallography Reports, 2019, 64, 386-391.	0.1	2
61	Built-in electric field induces polarization rotation in bilayer BiFeO ₃ /(Ba,Sr)TiO ₃ thin films. Journal of Alloys and Compounds, 2020, 812, 152164.	2.8	2
62	Ferromagnetoelectric phases of hexaferrites: a group-theoretical analysis. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 740-748.	0.5	2
63	Vibration Spectra and Phase Transitions in Layered Semiconducting Ferroelectrics with TiGaSe ₂ Structure. II. Thermodynamic Description of Phase Transitions. Physica Status Solidi (B): Basic Research, 1989, 153, 529-537.	0.7	1
64	Magnetron and pulsed laser deposition of silver and gold nanoparticles and discontinuous films and their optical properties. Technical Physics, 2012, 57, 1411-1416.	0.2	1
65	Structure and lattice dynamics of heterostructures based on bismuth ferrite and barium strontium titanate. Physics of the Solid State, 2013, 55, 2506-2515.	0.2	1
66	Optical properties of the Ba _{0.8} Sr _{0.2} TiO ₃ /(Bi _{0.82} , Nd _{0.02})FeO ₃ superlattice. Technical Physics, 2014, 59, 571-575.	0.2	1
67	The Influence of High-Frequency Discharge on Substrate Temperature during Film Deposition. Technical Physics Letters, 2019, 45, 478-480.	0.2	1
68	Synthesis of zinc oxide films in glow discharge of various configurations. Technical Physics Letters, 2014, 40, 1018-1020.	0.2	0
69	Polarization switching in nanoscaled barium strontium titanate films. Nanotechnologies in Russia, 2014, 9, 45-50.	0.7	0
70	Physical states and properties of barium titanate films in a plane electric field. Technical Physics, 2016, 61, 1073-1078.	0.2	0
71	Acoustic properties of BSTO ₈ films tunable by bias electric field. , 2016, , .		0
72	Phenomenological theory of uniaxial relaxor ferroelectrics. Journal of Physics Condensed Matter, 2016, 28, 395902.	0.7	0

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73	Induced pyroelectric effect in a planar field. <i>Physics of the Solid State</i> , 2017, 59, 914-919.	0.2	0
74	Temperature Behavior of the Rotational Order Parameters in a $\text{La}_{0.25}\text{Ca}_{0.75}\text{MnO}_3$ Solid Solution. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018, 82, 335-337.	0.1	0
75	Properties of the Barium–Strontium Titanate Films Deposited onto the Silicon Substrate by rf Cathode Sputtering. <i>Technical Physics Letters</i> , 2018, 44, 1157-1159.	0.2	0
76	Piezoelectric coefficients of the barium-strontium titanate film on a (111)-oriented substrate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 324, 012006.	0.3	0
77	Properties of Thin Films of Barium–Strontium Titanate Solid Solutions by Induced Piezoelectric Effect. <i>Doklady Physics</i> , 2018, 63, 142-146.	0.2	0
78	Efficiency of Generation of Surface Acoustic Waves in Barium Strontium Titanate Thin Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1815-1820.	1.7	0