

Vladimir Shirokov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Efficiency of Generation of Surface Acoustic Waves in Barium Strontium Titanate Thin Films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1815-1820.	1.7	0
2	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
3	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
4	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
5	Group-Theoretical Classification of Aristotypes of Cation and Anion Orders in Perovskites. Crystallography Reports, 2019, 64, 386-391.	0.1	2
6	The Influence of High-Frequency Discharge on Substrate Temperature during Film Deposition. Technical Physics Letters, 2019, 45, 478-480.	0.2	1
7	Phase transitions in Bi ₄ Ti ₃ O ₁₂ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 978-986.	0.5	7
8	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
9	Temperature Behavior of the Rotational Order Parameters in a La _{0.25} Ca _{0.75} MnO ₃ Solid Solution. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 335-337.	0.1	0
10	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
11	Properties of the Barium–Strontium Titanate Films Deposited onto the Silicon Substrate by rf Cathode Sputtering. Technical Physics Letters, 2018, 44, 1157-1159.	0.2	0
12	Optical Properties of Barium Strontium Niobate SBN61 Films. Physics of the Solid State, 2018, 60, 1005-1010.	0.2	6
13	Piezoelectric coefficients of the barium-strontium titanate film on a (111)-oriented substrate. IOP Conference Series: Materials Science and Engineering, 2018, 324, 012006.	0.3	0
14	Vanadium clusters formation in geometrically frustrated spinel oxide AlV ₂ O ₄ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 337-353.	0.5	10
15	Properties of Thin Films of Barium–Strontium Titanate Solid Solutions by Induced Piezoelectric Effect. Doklady Physics, 2018, 63, 142-146.	0.2	0
16	Tunable pyroelectric properties of barium strontium titanate thin films. Journal of Physics Condensed Matter, 2017, 29, 185701.	0.7	5
17	Induced pyroelectric effect in a planar field. Physics of the Solid State, 2017, 59, 914-919.	0.2	0
18	Invar effect accompanying charge order in La _{0.25} Ca _{0.75} MnO ₃ . Solid State Sciences, 2017, 72, 144-149.	1.5	2

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19	Lattice dynamics and structural distortions in the multiferroic (Ba,Sr)TiO ₃ /(Bi,Nd)FeO ₃ heterostructures. <i>Thin Solid Films</i> , 2017, 636, 220-224.	0.8	4
20	Unexpectedly high Curie temperature in weakly strained ferroelectric film. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600413.	0.7	3
21	Unique hyper-kagome atomic order in geometrically frustrated iridium spinel-like structures. <i>Russian Chemical Bulletin</i> , 2017, 66, 1719-1727.	0.4	2
22	Physical states and properties of barium titanate films in a plane electric field. <i>Technical Physics</i> , 2016, 61, 1073-1078.	0.2	0
23	Acoustic properties of BST08 films tunable by bias electric field. , 2016, , .		0
24	Phenomenological thermodynamics and the structure formation mechanism of the CuTi ₂ S ₄ rhombohedral phase. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10600-10606.	1.3	10
25	Theory of the formation of P4132(P4332)-phase spinels. <i>Crystallography Reports</i> , 2016, 61, 159-169.	0.1	3
26	Phenomenological theory of uniaxial relaxor ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 395902.	0.7	0
27	Unique hyper-kagome atomic order in the noncentrosymmetric structure of Na ₃ Ir ₃ O ₈ . <i>Inorganic Materials</i> , 2016, 52, 815-823.	0.2	3
28	Physical properties of Ba _{0.8} Sr _{0.2} TiO ₃ thin films. <i>Physics of the Solid State</i> , 2016, 58, 2035-2039.	0.2	6
29	Anion order in perovskites: a group-theoretical analysis. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, 222-235.	0.0	25
30	Anomalous change in the material moduli of thin films of barium titanate. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 1103-1110.	0.1	4
31	Phenomenological theory of phase transitions in epitaxial Ba _x Sr _{1-x} TiO ₃ thin films on (111)-oriented cubic substrates. <i>Journal of Applied Physics</i> , 2015, 118, 024101.	1.1	13
32	Ferroelectric superlattice based on barium-strontium titanate solid solutions. <i>Physics of the Solid State</i> , 2015, 57, 2246-2251.	0.2	4
33	Direct transition from the rhombohedral ferroelectric to the paraelectric phase in a (Ba,Sr)TiO ₃ thin film on a (111)MgO substrate. <i>Europhysics Letters</i> , 2015, 112, 47001.	0.7	6
34	Theory of structural phase transition in MgTi ₂ O ₄ . <i>Crystallography Reports</i> , 2015, 60, 101-110.	0.1	8
35	Material constants of barium titanate thin films. <i>Physics of the Solid State</i> , 2015, 57, 1535-1540.	0.2	11
36	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

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37	Unique atom hyper-kagome order in $\text{Na}_4\text{Ir}_3\text{O}_8$ and in low-symmetry spinel modifications. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, 301-318.	0.0	15
38	Control of acoustic properties of a BaTiO_3 thin film by a planar electric field. <i>Europhysics Letters</i> , 2015, 111, 16002.	0.7	3
39	The problem of determining elastic constants of thin ferroelectric films. <i>Doklady Physics</i> , 2015, 60, 349-354.	0.2	8
40	Synthesis of zinc oxide films in glow discharge of various configurations. <i>Technical Physics Letters</i> , 2014, 40, 1018-1020.	0.2	0
41	Anomalies of piezoelectric coefficients in barium titanate thin films. <i>Europhysics Letters</i> , 2014, 108, 47008.	0.7	11
42	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
43	Polarization switching in nanoscaled barium strontium titanate films. <i>Nanotechnologies in Russia</i> , 2014, 9, 45-50.	0.7	0
44	Optical properties of BiFeO_3 epitaxial thin films. <i>Technical Physics</i> , 2014, 59, 102-106.	0.2	5
45	Group-theoretical study of cationic ordering in perovskite structure. <i>Crystallography Reports</i> , 2014, 59, 650-661.	0.1	12
46	Atomic order in the spinel structure – a group-theoretical analysis. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, 49-63.	0.0	26
47	Combined atomic ordering in the A and B sublattices of perovskite structure. <i>Crystallography Reports</i> , 2014, 59, 662-678.	0.1	5
48	Optical properties of the $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3/(\text{Bi}_{0.82}, \text{Nd}_{0.02})\text{FeO}_3$ superlattice. <i>Technical Physics</i> , 2014, 59, 571-575.	0.2	1
49	Material constants of $(\text{Ba},\text{Sr})\text{TiO}_3$ solid solutions. <i>Physics of the Solid State</i> , 2013, 55, 773-779.	0.2	25
50	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
51	Structure and lattice dynamics of heterostructures based on bismuth ferrite and barium strontium titanate. <i>Physics of the Solid State</i> , 2013, 55, 2506-2515.	0.2	1
52	Phase Diagrams of $\text{BaTiO}_3/\text{BaZrO}_3$ Superlattices. <i>Ferroelectrics</i> , 2013, 444, 168-176.	0.3	10
53	Tilting structures in spinels. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 595-606.	0.3	17
54	Magnetron and pulsed laser deposition of silver and gold nanoparticles and discontinuous films and their optical properties. <i>Technical Physics</i> , 2012, 57, 1411-1416.	0.2	1

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55	Relaxation of polarized states in thin films of BST. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 794-797.	0.1	3
56	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
57	Optical properties of thin epitaxial Ba _{0.8} Sr _{0.2} TiO ₃ films. Technical Physics, 2012, 57, 975-980.	0.2	5
58	Crystal chemistry and formation mechanism of tetragonal MgTi ₂ O ₄ . Inorganic Materials, 2011, 47, 990-998.	0.2	9
59	Effect of mechanical activation on physical properties of relaxor ferroelectric Pb ₂ ScNbO ₆ ceramics. Technical Physics Letters, 2011, 37, 952-955.	0.2	8
60	Basis of invariants for multiferroic. Crystallography Reports, 2011, 56, 475-476.	0.1	8
61	Polarization of thin barium-strontium titanate films by an external electric field. Technical Physics, 2011, 56, 1175-1180.	0.2	13
62	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
63	Phenomenological description of thin SrTiO ₃ films. Physics of the Solid State, 2009, 51, 1025-1032.	0.2	14
64	Phenomenological theory of phase transitions in epitaxial $Ba_{1-x}TiO_3$ films. Physical Review B, 2009, 79, .	1.1	69
65	Phenomenological description of phase transitions in thin BaTiO ₃ films. Physics of the Solid State, 2008, 50, 928-936.	0.2	28
66	Phenomenological theory of phase transitions in epitaxial BaTiO ₃ thin films. Physical Review B, 2007, 75, .	1.1	64
67	Phase transitions and structural mechanisms of the formation of LiCoO ₂ polymorphic modifications. Glass Physics and Chemistry, 2007, 33, 596-607.	0.2	6
68	Concentration phase diagram of Ba _x Sr _{1-x} TiO ₃ solid solutions. Physical Review B, 2006, 73, .	1.1	74
69	Rotational polar structural distortions in Pb _{1-x} Ca _x TiO ₃ solid solutions from Raman spectroscopic data. Physics of the Solid State, 2006, 48, 919-928.	0.2	8
70	Phase transitions in random magnetic bilayer with the mean-field approximation. Physical Review B, 2006, 74, .	1.1	3
71	Raman Spectra of Cadmium Titanate. Physics of the Solid State, 2005, 47, 337.	0.2	9
72	Vibration Spectra and the Valence Force Field of the LiCuVO ₄ Crystal. Physics of the Solid State, 2005, 47, 539.	0.2	2

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73	Competition between rotational and polar structural distortions in perovskites. Crystallography Reports, 2005, 50, 637-645.	0.1	11
74	Tilting structures in perovskites. Crystallography Reports, 2004, 49, 20-28.	0.1	16
75	Pseudoamorphization of Cs ₂ HgBr ₄ . Physical Review B, 2003, 68, .	1.1	23
76	Polar phonons in the antiferromagnetic S=1/2 spin-chain system CuSb ₂ O ₆ . Physical Review B, 2003, 67, .	1.1	6
77	Infrared spectra and lattice vibrations of the spin-chain compound LiCuVO ₄ . European Physical Journal B, 2001, 23, 427-435.	0.6	7
78	Vibration Spectra and Phase Transitions in Layered Semiconducting Ferroelectrics with TlGaSe ₂ Structure. II. Thermodynamic Description of Phase Transitions. Physica Status Solidi (B): Basic Research, 1989, 153, 529-537.	0.7	1