## Sergey B Vakhrushev

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Phase transitions and soft modes in sodium bismuth titanate. Ferroelectrics, 1985, 63, 153-160.	0.6	268
2	Long-Time Relaxation of the Dielectric Response in Lead Magnoniobate. Physical Review Letters, 1995, 74, 1681-1684.	7.8	263
3	The origin of antiferroelectricity in PbZrO3. Nature Communications, 2013, 4, 2229.	12.8	251
4	Local and long range polar order in the relaxor-ferroelectric compoundsPbMg1/3Nb2/3O3andPbMg0.3Nb0.6Ti0.1O3. Physical Review B, 2001, 65, .	3.2	183
5	Inelastic neutron scattering study of the relaxor ferroelectric PbMg Nb O at high temperatures. European Physical Journal B, 1999, 11, 13-20.	1.5	129
6	Glassy phenomena in disordered perovskite-like crystals. Ferroelectrics, 1989, 90, 173-176.	0.6	127
7	Low-frequency dielectric response of PbMg1/3Nb2/3O3. Journal of Physics Condensed Matter, 1992, 4, 3671-3677.	1.8	113
0	Reassessment of the Burns temperature and its relationship to the diffuse scattering, lattice dynamics, and thermal expansion in relaxor <mml:math< td=""><td></td><td></td></mml:math<>		

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19	The high-temperature structure of lead magnoniobate. Journal of Physics Condensed Matter, 1994, 6, 4021-4027.	1.8	57
20	Freezing and melting of mercury in porous glass. Physical Review B, 1995, 52, 4772-4774.	3.2	50
21	X-ray study of the kinetics of field induced transition from the glass-like to the ferroelectric phase in lead magnoniobate. Solid State Communications, 1997, 103, 477-482.	1.9	48
22	Diffuse neutron scattering in relaxor ferroelectric PbMg1/3Nb2/3O3. Physical Chemistry Chemical Physics, 2005, 7, 2340.	2.8	43
23	Structural Heterogeneity and Diffuse Scattering in Morphotropic Lead Zirconate-Titanate Single Crystals. Physical Review Letters, 2012, 109, 097603.	7.8	43
24	Critical scattering and incommensurate phase transition in antiferroelectric PbZrO3 under pressure. Scientific Reports, 2017, 7, 41512.	3.3	43
25	Calorimetric and dielectric studies of ferroelectric sodium nitrite confined in a nanoscale porous glass matrix. Journal of Chemical Physics, 2005, 123, 084708.	3.0	42
26	Lattice dynamics and antiferroelectricity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>PbZrO</mml:mi><mml:mn>3<!--<br-->by x-ray and Brillouin light scattering. Physical Review B, 2014, 90, .</mml:mn></mml:msub></mml:math 	mml <b>:នាខ</b> > <td>nm<b>&amp;9</b>nsub&gt;</td>	nm <b>&amp;9</b> nsub>
27	Local atomic structure of relaxor ferroelectric solids determined by pulsed neutron and x-ray scattering. Ferroelectrics, 1997, 199, 103-113.	0.6	36
28	Na23spin-lattice relaxation of sodium nitrite in confined geometry. Physical Review B, 2004, 70, .	3.2	36
29	Ferroelectric phase transitions in sodium nitrite nanocomposites. Journal of Electroceramics, 2009, 22, 270-275.	2.0	31
30	Structure and properties of confined sodium nitrite. European Physical Journal E, 2003, 12, 21-24.	1.6	30
31	X-ray Analysis and Computer Modeling of the Structure of `Relaxor' Ferroelectrics Pb3MgNb2O9 and Pb2ScTaO6 in the Paraelectric State. Journal of Applied Crystallography, 1995, 28, 385-391.	4.5	28
32	Ferroelectric phase transitions in materials embedded in porous media. Scripta Materialia, 1999, 12, 963-966.	0.5	27
33	Effect of electric field on neutron scattering in lead magnoniobate. Physics of the Solid State, 1998, 40, 1728-1733.	0.6	26
34	Translational dynamics of water in the nanochannels of oriented chrysotile asbestos fibers. Physical Review E, 2005, 71, 061502.	2.1	23
35	Local and Average Structure of Relaxor Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> from the Point of View of NMR. Ferroelectrics, 2009, 378, 16-22.	0.6	23
36	Field induced kinetic ferroelectric phase transition in lead magnoniobate. Ferroelectrics, 1996, 184, 209-215.	0.6	22

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37	Ferroelectric phase transitions in materials embedded in porous media. Ferroelectrics, Letters Section, 1996, 20, 143-147.	1.0	20
38	Two-mode behavior of the PbMg1/3Nb2/3O3 relaxor. Physics of the Solid State, 2010, 52, 889-893.	0.6	16
39	Lattice dynamics in the paraelectric phase of PbHfO <sub>3</sub> studied by inelastic x-ray scattering. Journal of Physics Condensed Matter, 2015, 27, 335901.	1.8	15
40	Neutron diffraction study of NaNO2 ferroelectric nanowires. Physica B: Condensed Matter, 2004, 350, E1119-E1121.	2.7	14
41	Evolution of Structure of PbMg1/3Nb2/3O3 in the Vicinity of the Burns Temperature. AIP Conference Proceedings, 2002, , .	0.4	13
42	Diffusion of benzene confined in the oriented nanochannels of chrysotile asbestos fibers. Physical Review E, 2005, 72, 051502.	2.1	13
43	Temperature dependences of the order parameter for sodium nitrite embedded into porous glasses and opals. Physics of the Solid State, 2010, 52, 1092-1097.	0.6	13
44	Critical neutron scattering in a uniaxial relaxor Sr0.6Ba0.4Nb2O6. Physics of the Solid State, 2013, 55, 334-341.	0.6	13
45	Diffuse scattering anisotropy and inhomogeneous lattice deformations in the lead magnoniobate relaxor PMN above the Burns temperature. Physical Review B, 2012, 85, .	3.2	12
46	Structure evolution and formation of a pre-melted state in NaNO 2 confined within porous glass. Applied Physics A: Materials Science and Processing, 2002, 74, s1001-s1003.	2.3	11
47	Structure of KD 2 PO 4 Embedded in a Porous Glass. Ferroelectrics, 2003, 286, 213-219.	0.6	11
48	Phonons in PbMg 1/3 Nb 2/3 O 3 Measured by Inelastic Neutron Scattering. Ferroelectrics, 2003, 282, 9-19.	0.6	10
49	Temperature Dependence of the Local Structure in Pb Containing Relaxor Ferroelectrics. AIP Conference Proceedings, 2003, , .	0.4	10
50	Atomic motion in Se nanoparticles embedded into a porous glass matrix. European Physical Journal B, 2006, 54, 211-216.	1.5	10
51	Structure and dielectric response of Na1 â^' x K x NO2 nanocomposite solid solutions. Physics of the Solid State, 2008, 50, 1548-1554.	0.6	10
52	Low-temperature evolution of local polarization properties of PbZr0.65Ti0.35O3 thin films probed by piezoresponse force microscopy. Applied Physics Letters, 2014, 104, .	3.3	10
53	Dielectric response of potassium nitrate in a restricted geometry. Composites Part B: Engineering, 2016, 94, 322-326.	12.0	10
54	Temperature dependent conductivity and broadband dielectric response of precursor-derived Nb2O5. Ceramics International, 2020, 46, 9512-9518.	4.8	10

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55	Electric field control of antiferroelectric domain pattern. Physical Review B, 2021, 103, .	3.2	10
56	23Na NMR in the relaxor ferroelectric Na1/2Bi1/2TiO3. Physics of the Solid State, 2006, 48, 1120-1123.	0.6	9
57	23Na NMR study of the local order in the Na1/2Bi1/2TiO3 structure in a weak magnetic field. Physics of the Solid State, 2008, 50, 496-501.	0.6	9
58	Acoustic phonons in chrysotile asbestos probed by high-resolution inelastic x-ray scattering. Solid State Communications, 2009, 149, 589-592.	1.9	9
59	Magnetic phase transition in confined MnO nanoparticles studied by polarized neutron scattering. Physical Review B, 2010, 81, .	3.2	9
60	Neutron powder diffraction and single crystal X-ray magnetic resonant and non-resonant scattering studies of the doped multiferroic Tb(Bi)MnO3. European Physical Journal B, 2012, 85, 1.	1.5	9
61	Structural peculiarities of (PbMg1/3Nb2/3O3)1-x-(PbTiO3)xsolid solutions. Ferroelectrics, 1999, 235, 143-149.	0.6	8
62	Investigation of longitudinal vibrations of -O-H groups in chrysotile asbestos by neutron scattering and polarized infrared spectroscopy. Physics of the Solid State, 2011, 53, 416-420.	0.6	7
63	Glass-like structure of a lead-based relaxor ferroelectric. Journal of Applied Crystallography, 2012, 45, 1309-1313.	4.5	7
64	Dielectric properties of magnetic-ferroelectric CoO–NaNO2–porous glass nanocomposite. Physics of the Solid State, 2017, 59, 2036-2044.	0.6	7
65	The Technique of Studying X-Ray Scattering over Wide Temperature Range in an Electric Field. Physics of the Solid State, 2018, 60, 963-966.	0.6	7
66	Inelastic and critical neutron scattering in the ergodic phase of the relaxor ferroelectric PbMg 1/3 Nb 2/3 O 3. Applied Physics A: Materials Science and Processing, 2002, 74, s989-s991.	2.3	6
67	Lattice Dynamics of PbMg 1/3 Nb 2/3 O 3 (PMN): Shell-Model Calculations. Ferroelectrics, 2003, 282, 21-27.	0.6	6
68	Low-temperature dynamics of ferroelectric domains in PbZr0.3Ti0.7O3 epitaxial thin films studied by piezoresponse force microscopy. Applied Physics Letters, 2015, 107, .	3.3	6
69	Critical scattering of synchrotron radiation in lead zirconate–titanate with low titanium concentrations. Physics of the Solid State, 2015, 57, 2441-2446.	0.6	6
70	Structural Peculiarities of the Intermediate Phase in Zr-Rich Lead Zirconate Titanate. Physics of the Solid State, 2019, 61, 1772-1778.	0.6	6
71	Structure of disordered lead indoniobate PbIn1/2Nb1/2O3. Journal of Structural Chemistry, 1997, 38, 486-487.	1.0	5
72	Multiscale local ordering in the prototypical uniaxial relaxor Sr <sub>0.6</sub> Ba <sub>0.4</sub> Nb <sub>2</sub> O <sub>6</sub> single crystal at room temperature. Journal of Physics Condensed Matter, 2019, 31, 175401.	1.8	5

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73	Thermally tunable dielectric performance of t-ZrO2 stabilized amorphous Si(Pb,Zr)OC ceramic nanocomposites. Materials Chemistry and Physics, 2022, 277, 125495.	4.0	5
74	Critical X-Ray Scattering in Mixed Piezoelectric Material PbZr <sub>0</sub> <sub>.6</sub> Ti <sub>0.4</sub> O <sub>3</sub> . Solid State Phenomena, 2015, 245, 211-216.	0.3	4
75	Pre-transitional evolution of central peaks and transverse acoustic phonon branch in single crystal lead zirconate titanate with Ti concentration 0.7%. Journal of Physics: Conference Series, 2016, 769, 012070.	0.4	4
76	Space-charge polarisation dielectric behaviour of precursor derived monoclinic HfO2. Ceramics International, 2022, 48, 13063-13070.	4.8	4
77	Peculiar electric properties of polarized layer in alkaline silicate glasses. Journal of the American Ceramic Society, 2022, 105, 3418-3427.	3.8	4
78	Anomalous structural behaviour of the high-temperature superconducting compound La1.8Sr0.2CuO4-y. Solid State Communications, 1988, 65, 1167-1170.	1.9	3
79	Disorder and anharmonicity in simple and complex perovskites. Ferroelectrics, 1999, 235, 87-96.	0.6	3
80	Unique features of the crystal structure of the (PbMg1/3Nb2/3O3)0.6-(PbTiO3)0.4 solid solution. Physics of the Solid State, 1999, 41, 1172-1174.	0.6	3
81	E-T Phase Diagrams for PbMg1/3Nb2/3O3-PbTiO3 Single Crystals. Ferroelectrics, 2006, 339, 137-146.	0.6	3
82	Investigation into the evolution of the structure of K1â^'x LixTa1â^'y NbyO3 single crystals under variations in temperature. Crystallography Reports, 2007, 52, 440-446.	0.6	3
83	The negative phonon confinement effect in nanoscopic sodium nitrite. Nanotechnology, 2009, 20, 395706.	2.6	3
84	Inelastic and Quasielastic Neutron Scattering in PbMg1/3Nb2/3O3Above the Burns Temperature. Ferroelectrics, 2010, 400, 372-386.	0.6	3
85	Peculiarities of diffuse synchrotron radiation scattering in the SBN-60 single crystal at room temperature. St Petersburg Polytechnical University Journal Physics and Mathematics, 2015, 1, 235-238.	0.3	3
86	Domain structures and correlated out-of-plane and in-plane polarization reorientations in Pb(Zr0.96Ti0.04)O3 single crystal via piezoresponse force microscopy. AIP Advances, 2016, 6, .	1.3	3
87	Composition dependence of the diffuse scattering in cubic PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> . Ferroelectrics, 2016, 503, 45-51.	0.6	3
88	Structural study of Pb(Mg1/3Nb2/3)O3at low temperatures. Ferroelectrics, Letters Section, 1997, 23, 45-53.	1.0	2
89	X-Ray Mn K line shifts in manganese oxide nanoparticles. Technical Physics Letters, 2015, 41, 1205-1207.	0.7	2
90	Neutron diffraction study of the (BiFeO3)1â^'x(PbTiO3)xsolid solution: nanostructured multiferroic system. Journal of Physics Condensed Matter, 2015, 27, 046004.	1.8	2

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91	Incommensurate instability and diffuse scattering at Brillouin zone boundary in Zr-rich lead zirconate titanate. Ferroelectrics, 2019, 538, 65-73.	0.6	2
92	Combined Real-Time Study of Dielectric Response and Piezoresponse of Pb(Mg1/3Nb2/3)O3 Relaxor in an Electric Field. Physics of the Solid State, 2020, 62, 1873-1879.	0.6	2
93	Infralow Frequency Dielectric Spectroscopy of PMN Relaxor. Springer Proceedings in Physics, 2021, , 45-53.	0.2	2
94	Study of the formation processes of a domain nanostructure in relaxor ferroelectrics. Physics of Particles and Nuclei Letters, 2011, 8, 1061-1062.	0.4	1
95	Temperature Dependence of Ferroelectric Properties of the Potassium Lithium Tantalate K <sub>1â^x</sub> Li <sub>x</sub> TaO <sub>3</sub> Obtained with Piezoresponse Force Microscopy Technique. Ferroelectrics, 2014, 469, 73-78.	0.6	1
96	Influence of a Poling Procedure on Dynamics of Ferroelectric Domains in Thin PbZr <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>3</sub> Film at Low Temperatures. Solid State Phenomena, 0, 245, 217-222.	0.3	1
97	Phonon dispersion calculations using the Vaks model in antiferroelectric lead zirconate. Journal of Advanced Dielectrics, 2015, 05, 1550016.	2.4	1
98	Shell model analysis of the low-energy lattice dynamics in PbHfO3. Ferroelectrics, 2018, 534, 110-113.	0.6	1
99	X-Ray Scattering by Antiphase Ferroelectric Domain Walls in the Antiferroelectric Phase of the PbZr\$\$_{0.985}\$\$Ti\$\$_{0.015}\$\$O\$\$_3\$\$. Lecture Notes in Computer Science, 2018, , 683-690.	1.3	1
100	Mechanism of ferroelectric phase transition in ultra-dispersed sodium nitrite particles. Ferroelectrics, 2021, 575, 75-83.	0.6	1
101	Inelastic Neutron Scattering by TA Phonons in Heavily Doped Gallium Arsenide. Physics of the Solid State, 2005, 47, 1060.	0.6	Ο
102	Monte carlo simulation and optimization of three-axis neutron spectrometer for the PIK reactor. Crystallography Reports, 2007, 52, 552-557.	0.6	0
103	Tribute to Professor Alexander S. Sigov. Ferroelectrics, 2016, 503, 3-3.	0.6	Ο
104	An analysis of the phonon dispersion curves of lead hafnate in the cubic phase using lattice-dynamical models. St Petersburg Polytechnical University Journal Physics and Mathematics, 2016, 2, 171-174.	0.3	0
105	Structural Evolution in Morphotropic Lead Zirconate Titanate. , 2018, , .		Ο
106	Crystallography Based on Synchrotron Radiation: Experiments of Russian Users of the ESRF BM01 Diffraction Beam Line. Journal of Surface Investigation, 2018, 12, 395-407.	0.5	0
107	10.1007/s11451-008-3017-5. , 2010, 50, 496.		0
108	A System for Simultaneous Application of Uniaxial Strain and Electric Field to the Crystal Sample in		0

<sup>8</sup> Wide Temperature Range for X-Ray Scattering Experiments. , 2021, , .

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109	Mode Coupling at around M-Point in PZT. Materials, 2022, 15, 79.	2.9	0
110	Antiferrodistortive Soft Mode in PbZr0.024Ti0.976O3 Crystal. Physics of the Solid State, 2021, 63, 1840-1846.	0.6	0