

# Sergey G Lushnikov

## List of Publications by Year in descending order

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118  
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120  
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120  
docs citations

120  
times ranked

1638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relaxing with relaxors: a review of relaxor ferroelectrics. <i>Advances in Physics</i> , 2011, 60, 229-327.	14.4	380
2	Central peak in light scattering from the relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Physical Review B</i> , 1997, 56, 7962-7966.	3.2	86
3	Divide line between relaxor, diffused ferroelectric, ferroelectric and dielectric. <i>Solid State Communications</i> , 2009, 149, 172-176.	1.9	72
4	Anomalous dispersion of the elastic constants at the phase transformation of the $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Physical Review B</i> , 2009, 79, .	3.2	60
5	Spin-glass state and long-range magnetic order in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Physical Review B</i> , 2009, 79, .	3.2	60
6	$\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ as a model object for light scattering experiments. <i>Ferroelectrics</i> , 1999, 226, 191-215.	0.6	57
7	Low-temperature transverse dielectric and pyroelectric anomalies of uniaxial tungsten bronze crystals. <i>Journal of Applied Physics</i> , 2002, 92, 1536-1543.	2.5	51
8	Microscopic coexistence of antiferromagnetic and spin-glass states. <i>Physical Review B</i> , 2013, 87, .	3.2	50
9	Quasi-elastic scattering, random fields and phonon-coupling effects in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Journal of Physics Condensed Matter</i> , 2005, 17, 4343-4359.	1.8	46
10	Disorder and relaxation mode in the lattice dynamics of the $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ relaxor ferroelectric. <i>Physical Review B</i> , 2004, 69, .	3.2	41
11	Manipulating the Magnetic Structure with Electric Fields in Multiferroic $\text{ErMnO}_3$ . <i>Physical Review Letters</i> , 2008, 100, 027201.	7.8	37
12	Glasslike state in $\text{PbFe}_{1/2}\text{Nb}_{1/2}\text{O}_3$ single crystal. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	37
13	A central peak in light scattering from the relaxor-type ferroelectric $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ . <i>Physica B: Condensed Matter</i> , 2001, 293, 382-389.	2.7	36
14	Ferroelectric phase transition of stoichiometric lithium tantalate studied by Raman, Brillouin, and neutron scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	35
15	Anomaly of hypersound velocity in the vicinity of a diffuse phase transition in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ and $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ . <i>Ferroelectrics</i> , 1989, 90, 187-190.	0.6	29
16	Dispersion of hypersonic velocity and damping at diffuse phase transition in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . <i>Ferroelectrics</i> , 1992, 125, 493-498.	0.6	28
17	Different dynamic behaviors of $\text{Pb}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ and $\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ single crystals studied by micro-Brillouin scattering and dielectric spectroscopy. <i>Applied Physics Letters</i> , 2003, 82, 4128-4130.	3.3	28
18	$^{93}\text{Nb}$ NMR of the random-field-dominated relaxor transition in pure and doped SBN. <i>Physical Review B</i> , 2001, 64, .	3.2	22

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19	Vibrational density of states of hen egg white lysozyme. JETP Letters, 2005, 82, 30-33.	1.4	21
20	Anomalous field-induced effects in the sound velocity in lead magnesium niobate probed by micro-Brillouin scattering. Applied Physics Letters, 2004, 84, 4798-4800.	3.3	20
21	Phase transition in tetragonal hen egg-white lysozyme crystals. Applied Physics Letters, 2009, 95, .	3.3	20
22	Phase separation and charge carrier self-organization in semiconductor-multiferroic $\text{Eu}_{0.8}\text{Ce}_{0.2}\text{Mn}_2\text{O}_5$ . Physical Review B, 2009, 80, .	3.2	20
23	Diffuse scattering from the lead-based relaxor ferroelectric $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ . Journal of Applied Crystallography, 2011, 44, 603-609.	4.5	20
24	Light scattering from $(\text{K}_{0.5}\text{Na}_{0.5})_{0.2}(\text{Sr}_{0.75}\text{Ba}_{0.25})_{0.9}\text{Nb}_2\text{O}_6$ with the tungsten bronze structure: An analogy with relaxor ferroelectrics. Journal of Applied Physics, 2001, 89, 1671.	2.5	18
25	Neutron diffuse scattering from $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ relaxor ferroelectric. Europhysics Letters, 2003, 63, 303-309.	2.0	18
26	$^{45}\text{Sc}$ NMR study of the relaxor transition in a lead scandotantalate single crystal. Physical Review B, 2000, 61, 253-257.	3.2	16
27	On the existence of the relaxation mode in relaxor ferroelectrics. Crystallography Reports, 2004, 49, 108-113.	0.6	16
28	Neutron scattering study of $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ and $\text{BaMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ complex perovskites. European Physical Journal B, 2004, 40, 235-241.	1.5	16
29	Neutron scattering studies of the mechanism of ferroelectricity in $68\%\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3 \sim 32\%\text{PbTiO}_3$ . Journal of Physics Condensed Matter, 2007, 19, 016219.	1.8	16
30	Behavior of optical phonons near the diffuse phase transition in relaxor ferroelectric $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ . Physical Review B, 2004, 70, .	3.2	14
31	Phonons and fractons in the vibration spectrum of the relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ . Physica B: Condensed Matter, 1999, 263-264, 286-289.	2.7	13
32	Density of vibration states and ferroelectric properties of complex perovskites. Journal of Applied Physics, 2003, 94, 1130-1133.	2.5	13
33	Neutron Powder Diffraction Study of the Phase Transition in $\text{BaTi}_2\text{O}_5$ . Ferroelectrics, 2007, 346, 43-48.	0.6	13
34	Acoustic anomalies at superionic-ferroelastic phase transition in $\text{Rb}_3\text{H}(\text{SeO}_4)_2$ . Ferroelectrics, 1990, 106, 237-242.	0.6	12
35	Linear and nonlinear dielectric susceptibilities of disordered lead scandium tantalate. Journal of Physics Condensed Matter, 2001, 13, 5449-5462.	1.8	12
36	Central peak in the vibrational spectrum of the relaxor ferroelectric lead scandotantalate. Solid State Communications, 2002, 122, 129-133.	1.9	11

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37	Anomalous temperature behavior of hypersonic acoustic phonons in a lysozyme crystal. JETP Letters, 2007, 84, 551-555.	1.4	11
38	Atomic displacements in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ under high pressures. Journal of Physics Condensed Matter, 2008, 20, 104235.	1.8	11
39	Evolution of the neutron quasielastic scattering through the ferroelectric phase transition in $93\% \text{PbZn}_{1-x}\text{Nb}_2\text{O}_3 \approx 7\% \text{PbTiO}_3$ . Applied Physics Letters, 2008, 93, 032903.	3.3	11
40	Protein dynamics in Brillouin light scattering: Thermal denaturation of hen egg white lysozyme. JETP Letters, 2009, 90, 80-84.	1.4	11
41	Magnetic order of multiferroic $\text{ErMn}_2\text{O}_7$ by resonant soft x-ray Bragg diffraction. Physical Review B, 2010, 81, .	3.2	10
42	Phase transition of the uniaxial disordered ferroelectric $\text{Sr}_{0.61}\text{Ba}_{0.39}\text{Nb}_2\text{O}_6$ . Journal of Physics Condensed Matter, 2014, 26, 185901.	1.8	11
43	Phonons in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Measured by Inelastic Neutron Scattering. Ferroelectrics, 2003, 282, 9-19.	0.6	10
44	Fractal properties of lysozyme: A neutron scattering study. Physical Review E, 2009, 79, 031913.	2.1	10
45	Study of phase transition in tetragonal lysozyme crystals by AC-nanocalorimetry. Thermochemica Acta, 2012, 544, 33-37.	2.7	10
46	Magnetic short- and long-range order in $\text{Pb}_{1-x}\text{Fe}_x\text{O}_3$ . Physical Review B, 2014, 89, .	3.2	10
47	Brillouin light scattering anomalies and new phase transition in $\text{Cs}_5\text{H}_3(\text{SO}_4)_4$ crystals. Solid State Communications, 2000, 113, 639-642.	1.9	9
48	Non-phonon contribution to the specific heat of $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ at low temperatures. Physica B: Condensed Matter, 2001, 305, 90-95.	2.7	9
49	Dynamical Properties of Relaxor Ferroelectric Lead Scandium Tantalate Probed by Micro-Brillouin Scattering. Japanese Journal of Applied Physics, 2001, 40, 5823-5827.	1.5	9
50	Specific heat of cubic relaxor ferroelectrics. Journal of Physics Condensed Matter, 2004, 16, 8981-8990.	1.8	9
51	Anomalous pressure dependence of the atomic displacements in the relaxor ferroelectric $\text{PbMg}_{1-x}\text{Ta}_x\text{O}_3$ . Physical Review B, 2006, 73, .	3.2	9
52	Acoustic anisotropy in uniaxial tungsten bronze ferroelectric single crystals studied by Brillouin light scattering. Journal of Applied Physics, 2008, 104, 104105.	2.5	9
53	Does a Dry Protein Undergo a Glass Transition?. Journal of Physical Chemistry B, 2014, 118, 2796-2802.	2.6	9
54	Brillouin scattering and dispersion of the sound velocity in $\text{Rb}_3\text{H}(\text{SeO}_4)_2$ . Ferroelectrics, 1991, 124, 409-414.	0.6	8

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55	Fracton contribution to the specific heat of the $\text{PbMg}_{1/3}\text{Nb}_2/3\text{O}_8$ relaxor ferroelectric at low temperatures. Crystallography Reports, 2001, 46, 1025-1029.	0.6	8
56	Acoustic properties of the disordered relaxor ferroelectric $\text{PbSc}_{1/2}\text{Ta}_{1/2}\text{O}_3$ . Physics of the Solid State, 2006, 48, 1102-1105.	0.6	8
57	X-Ray and Dielectric Investigations of $\text{PbCo}_{1/3}\text{Nb}_2/3\text{O}_3$ Single Crystals. Ferroelectrics, 2011, 412, 15-22.	0.6	8
58	Phase transformations of bovine serum albumin: Evidences from Rayleigh-Brillouin light scattering. Journal of Raman Spectroscopy, 2019, 50, 537-547.	2.5	8
59	Temperature dependence of the generalized vibrational density of states of sodium bismuth titanate in the ferroelectric phase. Solid State Communications, 2000, 116, 41-45.	1.9	7
60	Anomalous behavior of the acoustic phonon velocity and elastic constants of relaxor ferroelectric $\text{PbMg}_{1/3}\text{Ta}_2/3\text{O}_3$ . Journal of Physics Condensed Matter, 2007, 19, 496206.	1.8	7
61	Phase transition of chemically doped uniaxial relaxor ferroelectric. Journal of Physics Condensed Matter, 2015, 27, 435901.	1.8	7
62	Lattice Dynamics of $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ (PMN): Shell-Model Calculations. Ferroelectrics, 2003, 282, 21-27.	0.6	6
63	Dielectric Anomalies of $(\text{K}_{0.5}\text{Na}_{0.5})_{0.2}(\text{Sr}_{0.75}\text{Ba}_{0.25})_{0.9}\text{Nb}_2\text{O}_6$ Single Crystals with the Tungsten Bronze Structure. Ferroelectrics, 2003, 286, 61-71.	0.6	6
64	Deuterated hen egg-white lysozyme crystals: Optimization of the growth conditions and morphology. Crystallography Reports, 2005, 50, 789-795.	0.6	6
65	Anomalous behavior of Brillouin light scattering at thermal denaturation of lysozyme. JETP Letters, 2011, 93, 409-414.	1.4	6
66	Neutron scattering study of the $\text{Cs}_5\text{H}_3(\text{SO}_4)_4 \cdot 0.5\text{H}_2\text{O}$ crystal and its deuterated analog. Physica B: Condensed Matter, 2000, 276-278, 483-484.	2.7	5
67	Evidence for a Quasi-Two-Dimensional Proton Glass State in $\text{Cs}_5\text{H}_3(\text{SO}_4)_4 \cdot x\text{H}_2\text{O}$ Crystals. Physical Review Letters, 2001, 86, 2838-2841.	7.8	5
68	Separation of Phases and Charge States in Relaxor Ferroelectric $\text{PbCo}_{1/3}\text{Nb}_2/3\text{O}_3$ . Journal of Experimental and Theoretical Physics, 2020, 130, 439-445.	0.9	5
69	Isotope effect in $\text{Cs}_5\text{H}_3(\text{SO}_4)_4 \cdot 0.5\text{H}_2\text{O}$ crystals. Solid State Ionics, 1999, 125, 119-123.	2.7	4
70	Vibrational Spectra of Complex Perovskites. Ferroelectrics, 2003, 285, 243-250.	0.6	4
71	Dynamical Properties of the Partially Disordered Crystals of $\text{Cs}_5\text{H}_3(\text{SO}_4)_4 \cdot x\text{H}_2\text{O}$ . Ferroelectrics, 2003, 285, 119-132.	0.6	4
72	Cube-shaped diffuse scattering and the ground state of $\text{BaMg}_{1/3}\text{Ta}_{2/3}\text{O}_6$ . Physical Review B, 2012, 86, .	3.2	4

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73	Multicomponent Rayleigh scattering from guanidine hydrochloride solutions. Journal of Raman Spectroscopy, 2012, 43, 1510-1514.	2.5	4
74	Ferroelectric Phase Transition and Relaxor-Like Behavior of Loparite-(Ce). Ferroelectrics, 2014, 469, 130-137.	0.6	4
75	Structural phase transitions in loparite-(Ce): evidences from Raman light scattering. Journal of Raman Spectroscopy, 2015, 46, 161-166.	2.5	4
76	Investigation of dielectric hysteresis loops and polarization in relaxor ferroelectric PbCo <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> . Ferroelectrics, 2019, 538, 153-157.	0.6	4
77	Anomalous behavior of the phonon spectrum of the relaxor ferroelectric PMN at low temperatures. Ferroelectrics, 1999, 226, 147-157.	0.6	3
78	Acoustic anomalies in quasi-2D Cs <sub>5</sub> H <sub>3</sub> (SO <sub>4</sub> ) <sub>4</sub> ·xH <sub>2</sub> O crystal. Journal of Physics Condensed Matter, 2001, 13, 3677-3688.	1.8	3
79	E-T phase diagram of lead magnesium niobate relaxor ferroelectric in the Mandelstam-Brillouin scattering spectra. JETP Letters, 2004, 79, 555-558.	1.4	3
80	Dynamics of cubic-tetragonal phase transition in KNbO <sub>3</sub> perovskite. JETP Letters, 2004, 80, 355-358.	1.4	3
81	Orientalional Field-Induced Effects in Brillouin Spectra of Lead Magnesium Niobate Crystals. Japanese Journal of Applied Physics, 2005, 44, 7156-7159.	1.5	3
82	Study of diffuse scattering under hydrostatic pressure in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> . Journal of Physics: Conference Series, 2010, 251, 012011.	0.4	3
83	Low-frequency dynamics of DNA in Brillouin light scattering spectra. JETP Letters, 2014, 98, 735-741.	1.4	3
84	Loparite-(Ce), a natural ferroelectric with the perovskite-type structure. Applied Physics Letters, 2014, 105, .	3.3	3
85	Anomalous behavior of the dielectric response of quantum paraelectric CaTiO <sub>3</sub> with iron impurities. JETP Letters, 2015, 102, 530-535.	1.4	3
86	Study of the anisotropy of the dielectric response of Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> relaxor ferroelectric. JETP Letters, 2017, 105, 189-194.	1.4	3
87	Effect of a disorder degree on the vibrational spectrum of relaxor ferroelectric PbSc <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> . Physica B: Condensed Matter, 2000, 276-278, 485-486.	2.7	2
88	Elastic Properties of Disordered Lead Scandotantalate Crystal. Ferroelectrics, 2005, 320, 75-78.	0.6	2
89	Acousto-ionic interaction in sound velocity behavior at a superionic phase transition in Me <sub>3</sub> H(AO <sub>4</sub> ) <sub>2</sub> -type crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 224-228.	5.6	2
90	Specific features of the temperature behavior of lysozyme diffusivity in solutions with different protein concentrations. Journal of Molecular Liquids, 2012, 168, 7-11.	4.9	2

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91	Study of low-frequency dynamics of short peptides by Brillouin light scattering and Monte-Carlo global energy minimization. Journal of Physics: Conference Series, 2014, 572, 012015.	0.4	2
92	Multicomponent Quasi-Elastic Light Scattering in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ as Studied by Broadband Brillouin Scattering. JETP Letters, 2015, 102, 789-795.	1.4	2
93	The crystal structure of loparite: a new acentric variety. Mineralogy and Petrology, 2017, 111, 827-832.	1.1	2
94	Long-wave optical phonons in $\text{PbNi}_{1/3}\text{Nb}_{2/3}\text{O}_3$ crystals. Ferroelectrics, 2018, 532, 50-56.	0.6	2
95	Temperature behavior of long-wave acoustic phonons in relaxor ferroelectric $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ . Journal of Applied Physics, 2019, 126, 174102.	2.5	2
96	Substantial Improvement of Color-Rendering Properties of Conventional White LEDs Using Remote-Type Red Quantum-Dot Caps. Nanomaterials, 2022, 12, 1097.	4.1	2
97	Inelastic neutron scattering in $\text{Cs}_5\text{D}_3(\text{SO}_4)_4$ crystal. Physica B: Condensed Matter, 1997, 241-243, 484-486.	2.7	1
98	On the effect of ordering on vibrational spectrum of relaxor ferroelectric $\text{PbSc}_{1/2}\text{Ta}_{1/2}\text{O}_3$ in paraphase. Crystallography Reports, 2000, 45, 466-468.	0.6	1
99	Anomalous behavior of the velocity of hypersonic acoustic phonons in $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$ crystals. JETP Letters, 2003, 78, 84-87.	1.4	1
100	Anomalous Behaviour of the Specific Heat of $\text{AB}_2\text{B}'_3\text{O}_3$ Complex Perovskites at Low Temperatures. Ferroelectrics, 2004, 302, 341-345.	0.6	1
101	Raman and Neutron Scattering Study of $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ Relaxor Ferroelectric. Ferroelectrics, 2004, 302, 347-349.	0.6	1
102	Specific Features of Brillouin Spectra at a High-Temperature Phase Transition in $\text{Cs}_5\text{H}_3(\text{SO}_4)_4 \cdot x\text{H}_2\text{O}$ Crystals. Solid State Phenomena, 2006, 115, 279-284.		
103	Neutron and Light Scattering Studies of Nearly Stoichiometric Lithium Tantalate. Ferroelectrics, 2007, 354, 192-197.	0.6	1
104	Study on the influence of isotope exchange of hydrogen with deuterium on the vibrational spectrum of lysozyme by inelastic neutron scattering. Crystallography Reports, 2007, 52, 838-841.	0.6	1
105	Brillouin Scattering in Lysozyme Solutions. , 2010, , .		1
106	The structure and low-energy phonons of the nonferroelectric mixed perovskite: $\text{BaMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ . Journal of Physics Condensed Matter, 2012, 24, 455401.	1.8	1
107	Dielectric Investigations and Birefringence of $\text{PbNi}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Single Crystals. Journal of Physics: Conference Series, 2019, 1400, 077003.	0.4	1
108	Study of the influence of Eu doping on dielectric response and specific heat of relaxor ferroelectric $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ . Ferroelectrics, 2020, 567, 142-149.	0.6	1

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109	Mandelstamâ€“Brillouin Light Scattering in Bovine Serum Albumin Solutions with Different Concentrations in the Vicinity of Thermal Denaturation. Technical Physics, 2020, 65, 1546-1550.	0.7	1
110	Non-relaxor behaviour of low-frequency vibration spectra of relaxor ferroelectric PbCo <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> : evidences from Brillouin and Raman scattering measurements. Journal of Physics Condensed Matter, 2021, 33, 025402.	1.8	1
111	Isotopic effect in Brillouin light-scattering spectra of a Cs <sub>5</sub> H <sub>3</sub> (SO <sub>4</sub> ) <sub>4</sub> · xH <sub>2</sub> O crystal. Physics of the Solid State, 2000, 42, 2265-2272.	0.6	0
112	Brillouin and raman spectra anomalies in knsbn with the tungsten bronze structure. Integrated Ferroelectrics, 2000, 28, 95-102.	0.7	0
113	Brillouin Light Scattering in Complex Perovskites. Ferroelectrics, 2004, 303, 203-205.	0.6	0
114	Raman Scattering At Phase Separation In Semiconductor Manganiteâ€“Multiferroic Eu <sub>0.8</sub> Ce <sub>0.2</sub> Mn <sub>2</sub> O <sub>5</sub> . , 2010, , .		0
115	Brillouin Light Scattering In Guanidine Hydrochloride Solution. , 2010, , .		0
116	Publisher's Note: Microscopic coexistence of antiferromagnetic and spin-glass states [Phys. Rev. B, 2013, 87, 220403(R) (2013)]. Physical Review B, 2013, 87, .	3.2	0
117	Elastic Properties of Guanidine Hydrochloride Solutions with Various Concentrations in the Gigahertz Frequency Range. Technical Physics, 2020, 65, 1484-1490.	0.7	0
118	Study of the dielectric response and polarization in PbCo <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>3</sub> single crystals. Ferroelectrics, 2021, 575, 167-172.	0.6	0