

Irina A Gudim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

1,672
citations

20
h-index

34
g-index

158
ext. papers

1,851
ext. citations

1.6
avg, IF

4.44
L-index

#	Paper	IF	Citations
153	Crystal structure of bismuth-containing NdFe(BO) in the temperature range 20-500 K.. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2022 , 78, 1-13	1.8	1
152	Pressure-Temperature Phase Diagram of Multiferroic TbFe _{2.46} Ga _{0.54} (BO ₃) ₄ . <i>Magnetochemistry</i> , 2022 , 8, 59	3.1	
151	Electronic band structures of NdFe ₃ (BO ₃) ₄ and NdGa ₃ (BO ₃) ₄ crystals: ab initio calculations. <i>Ferroelectrics</i> , 2021 , 575, 11-17	0.6	1
150	X-ray Natural Circular Dichroism Imaging of Multiferroic Crystals. <i>Crystals</i> , 2021 , 11, 531	2.3	3
149	Magnetic excitations and exchange interactions in the substituted multiferroics (Nd,Tb)Fe ₃ (BO ₃) ₄ revealed by inelastic neutron scattering. <i>Physical Review B</i> , 2021 , 103,	3.3	1
148	Comparison of the Absorption Spectra of Nd ³⁺ Ions in the NdFe ₃ (BO ₃) ₄ , Nd _{0.5} Gd _{0.5} Fe ₃ (BO ₃) ₄ , and Ho _{0.75} Nd _{0.25} Fe ₃ (BO ₃) ₄ Crystals. <i>Physics of the Solid State</i> , 2021 , 63, 113-121	0.8	
147	Regulation of the phase transition temperature and hysteresis width by changing the composition of Eu _{1-x} LaxFe ₃ (BO ₃) ₄ solid solution. <i>Physical Review Materials</i> , 2021 , 5,	3.2	0
146	Magnetic and Magnetoelectric Properties of Scandoborate NdSc ₃ (BO ₃) ₄ . <i>Physics of the Solid State</i> , 2021 , 63, 968-971	0.8	
145	Raman scattering study of the rare-earth binary ferroborate Nd _{0.75} Dy _{0.25} Fe ₃ (BO ₃) ₄ single crystal. <i>Low Temperature Physics</i> , 2021 , 47, 1011-1021	0.7	
144	Optical properties of the HoGa ₃ (BO ₃) ₄ crystal: experiment and ab initio calculation. <i>Ferroelectrics</i> , 2020 , 559, 135-140	0.6	1
143	Structural phase transition in TbFe _{2.5} Ga _{0.5} (BO ₃) ₄ single crystal. <i>Ferroelectrics</i> , 2020 , 559, 128-134	0.6	2
142	Synthesis of NdSc ₃ (BO ₃) ₄ single crystals and study of its structure properties. <i>Journal of Alloys and Compounds</i> , 2020 , 828, 154355	5.7	4
141	Structural, Electronic and Vibrational Properties of YAl(BO). <i>Materials</i> , 2020 , 13,	3.5	12
140	Soft modes in HoFe _{2.5} Ga _{0.5} (BO ₃) ₄ solid solution. <i>Ferroelectrics</i> , 2020 , 556, 16-22	0.6	
139	Melt-Solution Synthesis and Magnetic Properties of SmFe _{2.8} Sc _{0.2} (BO ₃) ₄ Ferroborate. <i>Crystallography Reports</i> , 2020 , 65, 307-308	0.6	
138	Spectroscopic study of the TbAl ₃ (BO ₃) ₄ single crystal: Raman and luminescence spectroscopy. <i>Low Temperature Physics</i> , 2020 , 46, 1223-1230	0.7	
137	Elastic, magnetoelastic, magnetopiezoelectric, and magnetodielectric characteristics of HoAl ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2020 , 46, 923-931	0.7	4

136	Gallium Composition-Dependent Structural Phase Transitions in HoFe _{3-x} Gax(BO ₃) ₄ Solid Solutions: Crystal Growth, Structure, and Raman Spectroscopy Study. <i>Crystal Growth and Design</i> , 2020 , 20, 1058-1069	3.5	5
135	Magnetic circular dichroism in the canted antiferromagnet ErFe ₂ O ₃ : Bulk single crystal and nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166208	2.8	2
134	Monoclinic SmAl(BO) ₃ : synthesis, structural and spectroscopic properties. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 654-660	1.8	3
133	Magnetic circular dichroism and absorption spectra of f-f transitions 5I ₈ -5F ₂ and 5F ₃ in the HoFe ₃ (BO ₃) ₄ single crystal. <i>Low Temperature Physics</i> , 2020 , 46, 734-739	0.7	2
132	Manifestation of Spin Correlations in Monocrystalline ErAl ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2019 , 45, 1041-1045	0.7	0
131	Comparing the magnetic and magnetoelectric properties of the SmFe ₃ (BO ₃) ₄ ferroborate single crystals grown using different solvents. <i>Journal of Crystal Growth</i> , 2019 , 518, 1-4	1.6	2
130	Complex magnetic order in the Nd(Tb)Fe ₃ (BO ₃) ₄ multiferroic revealed by single-crystal neutron diffraction. <i>Physical Review B</i> , 2019 , 99,	3.3	2
129	Element selective magnetism in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ single crystal probed with hard X-ray magnetic circular dichroism. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 479, 312-316	2.8	9
128	Specific features of Nd ³⁺ Kramers doublets splitting in an antiferromagnetic crystal NdFe ₃ (BO ₃) ₄ in an external magnetic field. <i>Low Temperature Physics</i> , 2019 , 45, 928-933	0.7	0
127	Crystal structure and structural phase transition in bismuth-containing HoFe(BO) in the temperature range 11-500 K. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 954-968	1.8	3
126	Magnetic properties of Ho _{0.9} Er _{0.1} Fe ₃ (BO ₃) ₄ . <i>Journal of Physics: Conference Series</i> , 2019 , 1389, 012045	0.3	
125	Observation of soft phonon mode in TbFe ₃ (BO ₃) ₄ by inelastic neutron scattering. <i>Physical Review B</i> , 2018 , 97,	3.3	6
124	Comparative Study of the Magnetoelectric Effect in HoAl ₃ (BO ₃) ₄ and HoGa ₃ (BO ₃) ₄ Single Crystals. <i>Physics of the Solid State</i> , 2018 , 60, 510-514	0.8	1
123	Switching of Magnons by Electric and Magnetic Fields in Multiferroic Borates. <i>Physical Review Letters</i> , 2018 , 120, 027203	7.4	19
122	Temperature-dependent absorption lines observation in Raman spectra of SmFe ₃ (BO ₃) ₄ ferroborate. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1732-1735	2.3	7
121	Crystal structure, phase transition and structural deformations in iron borate (YBi)Fe(BO) in the temperature range 90-500 K. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 226-238	1.8	8
120	Antiferromagnetic resonance in crystalline PrFe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2018 , 44, 139-143	0.7	1
119	Features of electronic paramagnetic resonance in the ErAl ₃ (BO ₃) ₄ single crystal. <i>Low Temperature Physics</i> , 2018 , 44, 863-865	0.7	1

118	Magnetocapacitance, magnetoelasticity, and magnetopiezoelectric effect in HoFe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2018 , 44, 1341-1347	0.7	3
117	The magnetoelectric MEE-effect in the SmFe ₃ (BO ₃) ₄ multiferroic in dc and ac electric fields. <i>Journal of Applied Physics</i> , 2018 , 124, 134101	2.5	2
116	Magnetic and Magnetodielectric Properties of Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ . <i>Physics of the Solid State</i> , 2018 , 60, 1989-1998	0.8	3
115	Manifestation of magnetoelastic interactions in Raman spectra of Ho _x Nd _{1-x} Fe ₃ (BO ₃) ₄ crystals. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850011	1.3	14
114	Raman study of HoFe ₃ (BO ₃) ₄ at simultaneously high pressure and high temperature: p-T phase diagram. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1406-1410	2.3	13
113	Low-temperature features of Raman spectra below magnetic transitions in multiferroic Ho _{1-x} Nd _x Fe ₃ (BO ₃) ₄ and Sm _{1-y} La _y Fe ₃ (BO ₃) ₄ single crystals. <i>Ferroelectrics</i> , 2017 , 509, 92-96	0.6	9
112	Magnetic and magnetoelectric properties of the Tb _{0.75} Ho _{0.25} Fe ₃ (BO ₃) ₄ ferroborate. <i>Physics of the Solid State</i> , 2017 , 59, 550-554	0.8	
111	Spectroscopy of f-f transitions, crystal-field calculations, and magnetic and quadrupole helix chirality in DyFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2017 , 95,	3.3	2
110	The Pockels effect in TmAl ₃ (BO ₃) ₄ . <i>Ferroelectrics</i> , 2017 , 506, 152-158	0.6	
109	Piezoelectric response in SmFe ₃ (BO ₃) ₄ , a non-piezoactive configuration. The surface piezoelectric effect. <i>Low Temperature Physics</i> , 2017 , 43, 924-929	0.7	2
108	Features of the intensity behavior of Kramers doublet components in NdFe ₃ (BO ₃) ₄ in the transverse Zeeman geometry. <i>Low Temperature Physics</i> , 2017 , 43, 590-596	0.7	2
107	Low-temperature absorption spectra and electron structure of HoFe ₃ (BO ₃) ₄ single crystal. <i>Low Temperature Physics</i> , 2017 , 43, 610-616	0.7	7
106	Transformation of the HoFe ₃ (BO ₃) ₄ absorption spectra at reorientation magnetic transitions and local properties in the excited 5F ₅ states of the Ho ³⁺ ion. <i>Physical Review B</i> , 2017 , 96,	3.3	10
105	Specific features of magnetic properties of Tb _{1-x} Ho _x Al ₃ (BO ₃) ₄ aluminoborates. <i>Physics of the Solid State</i> , 2016 , 58, 660-664	0.8	0
104	Evidence for a collinear easy-plane magnetic structure of multiferroic EuFe ₃ (BO ₃) ₄ : Spectroscopic and theoretical studies. <i>Physical Review B</i> , 2016 , 94,	3.3	9
103	Terahertz spectroscopy of crystal-field transitions in magnetoelectric TmAl ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2016 , 94,	3.3	6
102	Crystal Growth and Raman Spectroscopy Study of Sm _{1-x} La _x Fe ₃ (BO ₃) ₄ Ferroborates. <i>Crystal Growth and Design</i> , 2016 , 16, 6915-6921	3.5	14
101	Infrared absorption spectra of a Nd _{0.5} Ho _{0.5} Fe ₃ (BO ₃) ₄ crystal. <i>Physics of the Solid State</i> , 2016 , 58, 155-159	0.8	9

100	Low-temperature magnetic phase transitions in the multiferroic Nd _{0.9} Dy _{0.1} Fe ₃ (BO ₃) ₄ . Part 1. Transitions induced by magnetic fields directed along the trigonal symmetry axis. Spontaneous transitions with temperature changes. <i>Low Temperature Physics</i> , 2016 , 42, 273-279	0.7	
99	Raman scattering in multiferroic SmFe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2016 , 42, 475-483	0.7	9
98	Transformation from an easy-plane to an easy-axis antiferromagnetic structure in the mixed rare-earth ferroborates Pr _x Y _{1-x} Fe ₃ (BO ₃) ₄ : magnetic properties and crystal field calculations. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 396001	1.8	2
97	Magnetodielectrical and magnetopiezoelectrical effects in NdFe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2016 , 42, 1112-1119	0.7	4
96	High-resolution spectroscopy of HoFe ₃ (BO ₃) ₄ crystal: a study of phase transitions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016 , 120, 558-565	0.7	14
95	Structure of Gd _{0.95} Bi _{0.05} Fe ₃ (BO ₃) ₄ single crystals at 293 and 90 K. <i>Crystallography Reports</i> , 2016 , 61, 558-565	0.6	7
94	Magneto-optical activity of f-f transitions in ErFe ₃ (BO ₃) ₄ and ErAl ₃ (BO ₃) ₄ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 384, 255-265	2.8	11
93	Effect of an electric field on the magnetization of a SmFe ₃ (BO ₃) ₄ single crystal. <i>Physics of the Solid State</i> , 2015 , 57, 1357-1361	0.8	7
92	Specific features of magnetic properties of rare-earth ferroborates Sm _{1-x} La _x Fe ₃ (BO ₃) ₄ . <i>Physics of the Solid State</i> , 2015 , 57, 569-575	0.8	4
91	Magnetic resonance and spin-reorientation transitions in the Nd _{0.75} Ho _{0.25} Fe ₃ (BO ₃) ₄ multiferroic. <i>Low Temperature Physics</i> , 2015 , 41, 75-79	0.7	2
90	Magnetic and Magnetoelectric Properties of Sm _{1-x} La _x Fe ₃ (BO ₃) ₄ Single Crystals. <i>Solid State Phenomena</i> , 2015 , 233-234, 368-370	0.4	
89	Elastic and piezoelectric moduli of Nd and Sm ferroborates. <i>Low Temperature Physics</i> , 2015 , 41, 614-618	0.7	10
88	Magnetopiezoelectric effect and magnetocapacitance in SmFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2015 , 92,	3.3	16
87	Study of structural and ferromagnetic resonance properties of spinel lithium ferrite (LiFe ₅ O ₈) single crystals. <i>Journal of Applied Physics</i> , 2015 , 117, 233907	2.5	28
86	Giant natural circular dichroism of vibronic transitions in HoAl ₃ (BO ₃) ₄ . <i>JETP Letters</i> , 2015 , 102, 493-495	1.2	2
85	Magnetoelectric and magnetic properties of aluminum borates Ho _{1-x} Nd _x Al ₃ (BO ₃) ₄ . <i>JETP Letters</i> , 2015 , 101, 318-324	1.2	4
84	Large directional optical anisotropy in multiferroic ferroborate. <i>Physical Review B</i> , 2015 , 92,	3.3	15
83	Inclined magnetic structure of iron borate Pr _x Y _{1-x} Fe ₃ (BO ₃) ₄ : A neutron diffraction study and crystal-field calculations. <i>Physical Review B</i> , 2015 , 91,	3.3	8

82	Raman scattering under structural and magnetic phase transitions in terbium ferroborate. <i>Low Temperature Physics</i> , 2014 , 40, 171-178	0.7	12
81	Crystal field and exchange interactions in the SmFe ₃ (BO ₃) ₄ multiferroic. <i>Journal of Experimental and Theoretical Physics</i> , 2014 , 118, 111-123	1	11
80	High-temperature heat capacity of YFe ₃ (BO ₃) ₄ . <i>Physics of the Solid State</i> , 2014 , 56, 276-278	0.8	5
79	Mode Splitting in 37.2 GHz Barium Hexaferrite Resonator: Theory and Device Applications. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-7	2	2
78	High-temperature magnetoelectricity of terbium aluminum borate: The role of excited states of the rare-earth ion. <i>Physical Review B</i> , 2014 , 89,	3.3	19
77	Spectroscopic properties of ErAl ₃ (BO ₃) ₄ single crystal. <i>Chemical Physics</i> , 2014 , 428, 137-143	2.3	22
76	Spectroscopic properties and structure of the ErFe ₃ (BO ₃) ₄ single crystal. <i>Physics of the Solid State</i> , 2014 , 56, 2056-2063	0.8	5
75	High-temperature heat capacity of YbAl ₃ (BO ₃) ₄ . <i>Russian Journal of Physical Chemistry A</i> , 2014 , 88, 1436-1437	1.37	3
74	Magnetic field-induced phase transitions in the antiferromagnet Nd _{0.6} Dy _{0.4} Fe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2014 , 40, 146-150	0.7	3
73	Heat capacity of Gd _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ in the temperature interval of 344-1021 K. <i>Russian Journal of Physical Chemistry A</i> , 2014 , 88, 1626-1628	0.7	1
72	Magnetic and magnetoelectric properties of terbium aluminum borate. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014 , 78, 97-99	0.4	3
71	Magnetization, magnetoelectric polarization, and specific heat of HoGa ₃ (BO ₃) ₄ . <i>JETP Letters</i> , 2014 , 99, 67-75	1.2	24
70	High-temperature heat capacity of TbFe ₃ (BO ₃) ₄ . <i>Physics of the Solid State</i> , 2014 , 56, 926-928	0.8	1
69	Infrared absorption spectrum of HoFe ₃ (BO ₃) ₄ crystal. <i>Vibrational Spectroscopy</i> , 2014 , 72, 20-25	2.1	12
68	IR spectroscopy of the low-frequency phonon spectrum of the TbFe ₃ (BO ₃) ₄ single-crystal. <i>Low Temperature Physics</i> , 2014 , 40, 1087-1096	0.7	6
67	Direct and inverse magnetoelectric effects in HoAl ₃ (BO ₃) ₄ single crystal. <i>Journal of Applied Physics</i> , 2014 , 115, 174103	2.5	13
66	Antiferromagnetic resonance study of the magnetic structure of Nd _{0.75} Dy _{0.25} Fe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2014 , 40, 629-634	0.7	2
65	Magnetic, magnetoelastic, and spectroscopic properties of TmAl ₃ (BO ₃) ₄ . <i>Journal of Experimental and Theoretical Physics</i> , 2014 , 119, 737-744	1	6

64	Magnetoelectric Polarization of Paramagnetic HoAl ₃ -XGaX(BO ₃) ₄ Single Crystals. <i>Solid State Phenomena</i> , 2014 , 215, 364-367	0.4	3
63	Features of Magnetic, Magnetoelectric and Magnetoelastic Properties of HoAl ₃ (BO ₃) ₄ . <i>Solid State Phenomena</i> , 2014 , 215, 352-357	0.4	
62	Magnetic properties of the rare-earth ferroborate SmFe ₃ (BO ₃) ₄ . <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 116, 800-805	1	7
61	Features of the magnetic and magnetoelectric properties of HoAl ₃ (BO ₃) ₄ . <i>JETP Letters</i> , 2013 , 97, 528-534	0.4	26
60	Magneto-optical activity of f-f transitions and properties of 4f states in single-crystal DyFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2013 , 88,	3.3	16
59	Magnetoelastic interactions in Raman spectra of Ho _{1-x} NdxFe ₃ (BO ₃) ₄ crystals. <i>Solid State Communications</i> , 2013 , 174, 26-29	1.6	18
58	Vibrational spectra and elastic, piezoelectric, and magnetoelectric properties of HoFe ₃ (BO ₃) ₄ and HoAl ₃ (BO ₃) ₄ crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 1032-1041	1	28
57	Heat capacity of YAl ₃ (BO ₃) ₄ in the range of 329-1051 K. <i>Doklady Physics</i> , 2013 , 58, 533-534	0.8	1
56	Magnetic properties of the Nd _{0.95} Dy _{0.05} Fe ₃ (BO ₃) ₄ ferroborate with small substitution in the rare-earth element subsystem. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 862-874	1	4
55	Temperature- and magnetic-field-tuning of magnetic phases in multiferroic NdFe ₃ (BO ₃) ₄ . <i>Journal of the Korean Physical Society</i> , 2013 , 62, 1410-1413	0.6	1
54	Magnetoelastic studies of Nd _{0.75} Dy _{0.25} Fe ₃ (BO ₃) ₄ in the external magnetic field: Magnetic phase transitions. <i>Low Temperature Physics</i> , 2013 , 39, 936-947	0.7	3
53	Magnetic properties of Nd _{0.9} Dy _{0.1} Fe ₃ (BO ₃) ₄ . <i>Physica B: Condensed Matter</i> , 2012 , 407, 393-397	2.8	7
52	Magnetic phase transitions in Nd _{1-x} Dy _x Fe ₃ (BO ₃) ₄ ferrobates. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 114, 259-272	1	13
51	Magnetoelectric and magnetoelastic properties of easy-plane ferrobates with a small ionic radius. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 114, 810-817	1	14
50	Nature of optical properties of GdFe ₃ (BO ₃) ₄ and GdFe _{2.1} Ga _{0.9} (BO ₃) ₄ crystals and other 3d5 antiferromagnets. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	12
49	Ho and Fe magnetic ordering in multiferroic HoFe ₃ (BO ₃) ₄ . <i>Physical Review B</i> , 2012 , 86,	3.3	12
48	Determination of the magnetic structure of SmFe ₃ (BO ₃) ₄ by neutron diffraction: comparison with other RFe ₃ (BO ₃) ₄ iron borates. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 386002	1.8	17
47	Magnetic structure of iron borate DyFe ₃ (BO ₃) ₄ : A neutron diffraction study. <i>Journal of Physics: Conference Series</i> , 2012 , 340, 012065	0.3	15

46	Spectroscopic properties of Nd _{0.5} Gd _{0.5} Fe ₃ (BO ₃) ₄ single crystal. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 38-43	5.7	10
45	Growth and characterization of Fe ¹⁺ M x VO ₄ single crystals (M = Al, Cr, Co, Ga). <i>Crystallography Reports</i> , 2012 , 57, 955-958	0.6	3
44	Quality of the rare earth aluminum borate crystals for laser applications, probed by high-resolution spectroscopy of the Yb ³⁺ ion. <i>Optical Materials</i> , 2012 , 34, 1885-1889	3.3	18
43	Magnetic anisotropy in the basal plane of the rare-earth ferroborate Nd _{0.75} Dy _{0.25} Fe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2012 , 38, 446-449	0.7	9
42	Magnetic Properties of Nd _{0.6} Dy _{0.4} Fe ₃ (BO ₃) ₄ . <i>Solid State Phenomena</i> , 2012 , 190, 261-264	0.4	2
41	Magnetic Properties of Sm _{0.7} Ho _{0.3} Fe ₃ (BO ₃) ₄ . <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 815-828	1	7
40	Magnetoelectricity in the system RAl ₃ (BO ₃) ₄ (R= Tb, Ho, Er, Tm). <i>Journal of Physics: Conference Series</i> , 2012 , 400, 032046	0.3	15
39	Magnetic phase transitions in the NdFe ₃ (BO ₃) ₄ multiferroic. <i>Low Temperature Physics</i> , 2011 , 37, 1010-1029	2.9	16
38	Colossal magnetodielectric effect in SmFe ₃ (BO ₃) ₄ multiferroic. <i>JETP Letters</i> , 2011 , 93, 275-281	1.2	53
37	Magnetic properties of the Nd _{0.5} Gd _{0.5} Fe ₃ (BO ₃) ₄ single crystal. <i>Physics of the Solid State</i> , 2011 , 53, 2032-2037	2.3	3
36	Low-temperature behavior of the magnetoelastic characteristics of praseodymium ferroborate. <i>Low Temperature Physics</i> , 2010 , 36, 296-302	0.7	12
35	Low-temperature phase transitions in the rare-earth ferroborate Nd _{0.75} Dy _{0.25} Fe ₃ (BO ₃) ₄ . <i>Low Temperature Physics</i> , 2010 , 36, 279-281	0.7	10
34	Magnetoelectric and magnetoelastic properties of rare-earth ferroborates. <i>Low Temperature Physics</i> , 2010 , 36, 511-521	0.7	132
33	Upconversion luminescence of YAl ₃ (BO ₃) ₄ :(Yb ³⁺ , Tm ³⁺) crystals. <i>Journal of Alloys and Compounds</i> , 2010 , 496, L18-L21	5.7	27
32	Magnetic structure in iron borates RFe ₃ (BO ₃) ₄ (R = Er, Pr): a neutron diffraction and magnetization study. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 206002	1.8	23
31	Peculiarities in the magnetic, magnetoelectric, and magnetoelastic properties of SmFe ₃ (BO ₃) ₄ multiferroic. <i>Journal of Experimental and Theoretical Physics</i> , 2010 , 111, 199-203	1	34
30	Flux growth and spin reorientation in trigonal Nd _{1-x} Dy _x Fe ₃ (BO ₃) ₄ single crystals. <i>Journal of Crystal Growth</i> , 2010 , 312, 2427-2430	1.6	43
29	Spectroscopic study of the magnetic ordering in SmFe ₃ (BO ₃) ₄ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1790-1792	2.3	28

28	Magneto-optical activity and luminescence of f-f transitions in trigonal crystal $\text{TmAl}_3(\text{BO}_3)_4$. <i>Optical Materials</i> , 2010 , 32, 1017-1021	3.3	3
27	Violation of axial symmetry of optical properties in the trigonal crystal $\text{Nd:GdFe}_{2.1}\text{Ga}_{0.9}(\text{BO}_3)_4$. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1683-1686	2.3	3
26	Magnetic anisotropy and magnetoelectric properties of $\text{Tb}_{1-x}\text{Er}_x\text{Fe}_3(\text{BO}_3)_4$ ferroborates. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 109, 68-73	1	32
25	Magnetoelastic effects in terbium ferroborate. <i>Low Temperature Physics</i> , 2008 , 34, 901-908	0.7	13
24	Magnetic structure in iron borates $\text{RFe}_3(\text{BO}_3)_4$ (R = Y, Ho): a neutron diffraction and magnetization study. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 365209	1.8	58
23	Origin of color centers in the flux-grown europium gallium garnet. <i>Journal of Applied Physics</i> , 2008 , 103, 083102	2.5	5
22	Single-crystal growth of trigonal $\text{DyFe}_3(\text{BO}_3)_4$ and study of magnetic properties. <i>Crystallography Reports</i> , 2008 , 53, 1140-1143	0.6	9
21	Crystal nucleation of high-temperature $\text{Fe}_x\text{Ga}_{2-x}\text{O}_3$ multiferroics in bismuth trimolybdate-borate fluxes. <i>Crystallography Reports</i> , 2008 , 53, 1232-1235	0.6	0
20	Magnetic structure, magnetic interactions and metamagnetism in terbium iron borate $\text{TbFe}_3(\text{BO}_3)_4$: a neutron diffraction and magnetization study. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 196227	1.8	60
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18	Thermodynamic properties of $\text{NdFe}_3(\text{BO}_3)_4$. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e621-e623	2.8	19
17	Magnetic properties of $\text{TbFe}_3(\text{BO}_3)_4$. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e717-e720	2.8	15
16	Luminescence of yttrium aluminum borate single crystals doped with manganese. <i>Physics of the Solid State</i> , 2007 , 49, 1695-1699	0.8	32
15	Magnetic properties of rare earth iron borates: Spectroscopic investigation by the method of rare earth probe. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 1563-1565	0.4	2
14	Magnetization and specific heat of $\text{TbFe}_3(\text{BO}_3)_4$: Experiment and crystal-field calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	67
13	Spin glass state in crystals of barium ferrigermanate $\text{Ba}_2\text{Fe}_2\text{GeO}_7$. <i>Physics of the Solid State</i> , 2006 , 48, 1906-1908	0.8	5
12	Synthesis and properties of barium ferrigermanate $\text{Ba}_2\text{Fe}_2\text{GeO}_7$. <i>Physics of the Solid State</i> , 2005 , 47, 2114	0.8	3
11	Circular dichroism of some Nd-doped crystals of the langasite family. <i>Crystallography Reports</i> , 2005 , 50, 954-960	0.6	2

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9	Crystallization of Ba ₃ Fe ₂ Ge ₄ O ₁₄ and Ba ₂ Fe ₂ GeO ₇ in oxide-fluoride fluxes. <i>Crystallography Reports</i> , 2005 , 50, S106-S110	0.6	1
8	Pb ₃ Ga ₂ Ge ₄ O ₁₄ :Nd ³⁺ crystal as novel nonlinear laser material. <i>Physica Status Solidi A</i> , 2005 , 202, R111-R112		
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1	Phase transitions and p-T phase diagram of the multiferroic TbFe ₃ (BO ₃) ₄ crystal. <i>Journal of Raman Spectroscopy</i> ,	2.3	1