# Irina A Gudim

## List of Publications by Citations



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|---|---|---|---|
| 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 | Magnetoelectric and magnetoelastic properties of rare-earth ferroborates. *Low Temperature Physics*, **2010**, 36, 511-521 | 0.7 | 132 |
| 152 | Magnetic properties of trigonal GdFe3(BO3)4. *Journal of Magnetism and Magnetic Materials*, **2003**, 258-259, 532-534 | 2.8 | 77 |
| 151 | Crystallization of trigonal (Tb,Er)(Fe,Ga)3(BO3)4 phases with hantite structure in bismuth trimolybdate-based fluxes. *Crystallography Reports*, **2005**, 50, S97-S99 | 0.6 | 72 |
| 150 | Magnetization and specific heat of TbFe3(BO3)4: Experiment and crystal-field calculations. *Physical Review B*, **2007**, 75, | 3.3 | 67 |
| 149 | Magnetic structure, magnetic interactions and metamagnetism in terbium iron borate TbFe3(BO3)4: a neutron diffraction and magnetization study. *Journal of Physics Condensed Matter*, **2007**, 19, 196227 | 1.8 | 60 |
| 148 | Magnetic structure in iron borates RFe3(BO3)4(R = Y,Ho): a neutron diffraction and magnetization study. *Journal of Physics Condensed Matter*, **2008**, 20, 365209 | 1.8 | 58 |
| 147 | Colossal magnetodielectric effect in SmFe3(BO3)4 multiferroic. *JETP Letters*, **2011**, 93, 275-281 | 1.2 | 53 |
| 146 | Flux growth and spin reorientation in trigonal Nd1−xDyxFe3(BO3)4 single crystals. *Journal of Crystal Growth*, **2010**, 312, 2427-2430 | 1.6 | 43 |
| 145 | Peculiarities in the magnetic, magnetoelectric, and magnetoelastic properties of SmFe3(BO3)4 multiferroic. *Journal of Experimental and Theoretical Physics*, **2010**, 111, 199-203 | 1 | 34 |
| 144 | Magnetic anisotropy and magnetoelectric properties of Tb1 − x Er x Fe3(BO3)4 ferroborates. *Journal of Experimental and Theoretical Physics*, **2009**, 109, 68-73 | 1 | 32 |
| 143 | Investigation of the iron borates DyFe3(BO3)4 and HoFe3(BO3)4 by the method of Er3+ spectroscopic probe. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 368, 408-411 | 2.3 | 32 |
| 142 | Luminescence of yttrium aluminum borate single crystals doped with manganese. *Physics of the Solid State*, **2007**, 49, 1695-1699 | 0.8 | 32 |
| 141 | Vibrational spectra and elastic, piezoelectric, and magnetoelectric properties of HoFe3(BO3)4 and HoAl3(BO3)4 crystals. *Journal of Experimental and Theoretical Physics*, **2013**, 117, 1032-1041 | 1 | 28 |
| 140 | Study of structural and ferromagnetic resonance properties of spinel lithium ferrite (LiFe5O8) single crystals. *Journal of Applied Physics*, **2015**, 117, 233907 | 2.5 | 28 |
| 139 | Spectroscopic study of the magnetic ordering in SmFe3(BO3)4. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 1790-1792 | 2.3 | 28 |
| 138 | Upconversion luminescence of YAl3(BO3)4:(Yb3+,Tm3+) crystals. *Journal of Alloys and Compounds*, **2010**, 496, L18-L21 | 5.7 | 27 |
| 137 | Features of the magnetic and magnetoelectric properties of HoAl3(BO3)4. *JETP Letters*, **2013**, 97, 528-534 | 1.2 | 26 |

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| 136 | Magnetization, magnetoelectric polarization, and specific heat of HoGa3(BO3)4. *JETP Letters*, **2014**, 99, 67-75 | 1.2 | 24 |
| 135 | Magnetic structure in iron borates RFe(3)(BO(3))(4) (R = Er, Pr): a neutron diffraction and magnetization study. *Journal of Physics Condensed Matter*, **2010**, 22, 206002 | 1.8 | 23 |
| 134 | Spectroscopic properties of ErAl3(BO3)4 single crystal. *Chemical Physics*, **2014**, 428, 137-143 | 2.3 | 22 |
| 133 | Switching of Magnons by Electric and Magnetic Fields in Multiferroic Borates. *Physical Review Letters*, **2018**, 120, 027203 | 7.4 | 19 |
| 132 | High-temperature magnetoelectricity of terbium aluminum borate: The role of excited states of the rare-earth ion. *Physical Review B*, **2014**, 89, | 3.3 | 19 |
| 131 | Thermodynamic properties of NdFe3(BO3)4. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e621-e623 | 2.8 | 19 |
| 130 | Magnetoelastic interactions in Raman spectra of Ho1−xNdxFe3(BO3)4 crystals. *Solid State Communications*, **2013**, 174, 26-29 | 1.6 | 18 |
| 129 | Quality of the rare earth aluminum borate crystals for laser applications, probed by high-resolution spectroscopy of the Yb3+ ion. *Optical Materials*, **2012**, 34, 1885-1889 | 3.3 | 18 |
| 128 | Determination of the magnetic structure of SmFe3(BO3)4 by neutron diffraction: comparison with other RFe3(BO3)4 iron borates. *Journal of Physics Condensed Matter*, **2012**, 24, 386002 | 1.8 | 17 |
| 127 | Magneto-optical activity of f−f transitions and properties of 4f states in single-crystal DyFe3(BO3)4. *Physical Review B*, **2013**, 88, | 3.3 | 16 |
| 126 | Magnetopiezoelectric effect and magnetocapacitance in SmFe3(BO3)4. *Physical Review B*, **2015**, 92, | 3.3 | 16 |
| 125 | Magnetic phase transitions in the NdFe3(BO3)4 multiferroic. *Low Temperature Physics*, **2011**, 37, 1010-1020 | 0.7 | 16 |
| 124 | Large directional optical anisotropy in multiferroic ferroborate. *Physical Review B*, **2015**, 92, | 3.3 | 15 |
| 123 | Magnetic structure of iron borate DyFe3(BO3)4: A neutron diffraction study. *Journal of Physics: Conference Series*, **2012**, 340, 012065 | 0.3 | 15 |
| 122 | Magnetoelectricity in the systemRAl3(BO3)4(R= Tb, Ho, Er, Tm). *Journal of Physics: Conference Series*, **2012**, 400, 032046 | 0.3 | 15 |
| 121 | Magnetic properties of TbFe3(BO3)4. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e717-e720 | 2.8 | 15 |
| 120 | Crystal Growth and Raman Spectroscopy Study of Sm1−xLaxFe3(BO3)4 Ferroborates. *Crystal Growth and Design*, **2016**, 16, 6915-6921 | 3.5 | 14 |
| 119 | Magnetoelectric and magnetoelastic properties of easy-plane ferroborates with a small ionic radius. *Journal of Experimental and Theoretical Physics*, **2012**, 114, 810-817 | 1 | 14 |

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|---|---|---|---|
| 118 | High-resolution spectroscopy of HoFe3(BO3)4 crystal: a study of phase transitions. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2016**, 120, 558-565 | 0.7 | 14 |
| 117 | Manifestation of magnetoelastic interactions in Raman spectra of HoxNd1Fe3(BO3)4 crystals. *Journal of Advanced Dielectrics*, **2018**, 08, 1850011 | 1.3 | 14 |
| 116 | Raman study of HoFe3(BO3)4 at simultaneously high pressure and high temperature: p phase diagram. *Journal of Raman Spectroscopy*, **2017**, 48, 1406-1410 | 2.3 | 13 |
| 115 | Magnetic phase transitions in Nd1 x Dy x Fe3(BO3)4 ferroborates. *Journal of Experimental and Theoretical Physics*, **2012**, 114, 259-272 | 1 | 13 |
| 114 | Direct and inverse magnetoelectric effects in HoAl3(BO3)4 single crystal. *Journal of Applied Physics*, **2014**, 115, 174103 | 2.5 | 13 |
| 113 | Magnetoelastic effects in terbium ferroborate. *Low Temperature Physics*, **2008**, 34, 901-908 | 0.7 | 13 |
| 112 | Structural, Electronic and Vibrational Properties of YAl(BO). *Materials*, **2020**, 13, | 3.5 | 12 |
| 111 | Raman scattering under structural and magnetic phase transitions in terbium ferroborate. *Low Temperature Physics*, **2014**, 40, 171-178 | 0.7 | 12 |
| 110 | Infrared absorption spectrum of HoFe3(BO3)4 crystal. *Vibrational Spectroscopy*, **2014**, 72, 20-25 | 2.1 | 12 |
| 109 | Nature of optical properties of GdFe3(BO3)4 and GdFe2.1Ga0.9(BO3)4 crystals and other 3d5 antiferromagnets. *European Physical Journal B*, **2012**, 85, 1 | 1.2 | 12 |
| 108 | Ho and Fe magnetic ordering in multiferroic HoFe3(BO3)4. *Physical Review B*, **2012**, 86, | 3.3 | 12 |
| 107 | Low-temperature behavior of the magnetoelastic characteristics of praseodymium ferroborate. *Low Temperature Physics*, **2010**, 36, 296-302 | 0.7 | 12 |
| 106 | Magneto-optical activity of f transitions in ErFe3(BO3)4 and ErAl3(BO3)4 single crystals. *Journal of Magnetism and Magnetic Materials*, **2015**, 384, 255-265 | 2.8 | 11 |
| 105 | Crystal field and exchange interactions in the SmFe3(BO3)4 multiferroic. *Journal of Experimental and Theoretical Physics*, **2014**, 118, 111-123 | 1 | 11 |
| 104 | Elastic and piezoelectric moduli of Nd and Sm ferroborates. *Low Temperature Physics*, **2015**, 41, 614-618 | 0.7 | 10 |
| 103 | Transformation of the HoFe3(BO3)4 absorption spectra at reorientation magnetic transitions and local properties in the excited 5F5 states of the Ho3+ ion. *Physical Review B*, **2017**, 96, | 3.3 | 10 |
| 102 | Spectroscopic properties of Nd0.5Gd0.5Fe3(BO3)4 single crystal. *Journal of Alloys and Compounds*, **2012**, 529, 38-43 | 5.7 | 10 |
| 101 | Low-temperature phase transitions in the rare-earth ferroborate Nd0.75Dy0.25Fe3(BO3)4. *Low Temperature Physics*, **2010**, 36, 279-281 | 0.7 | 10 |

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| 100 | Low-temperature features of Raman spectra below magnetic transitions in multiferroic Ho1−xNdxFe3(BO3)4 and Sm1−yLayFe3(BO3)4 single crystals. *Ferroelectrics*, **2017**, 509, 92-96 | 0.6 | 9 |
| 99 | Element selective magnetism in Ho0.5Nd0.5Fe3(BO3)4 single crystal probed with hard X-ray magnetic circular dichroism. *Journal of Magnetism and Magnetic Materials*, **2019**, 479, 312-316 | 2.8 | 9 |
| 98 | Evidence for a collinear easy-plane magnetic structure of multiferroic EuFe3(BO3)4: Spectroscopic and theoretical studies. *Physical Review B*, **2016**, 94, | 3.3 | 9 |
| 97 | Infrared absorption spectra of a Nd0.5Ho0.5Fe3(BO3)4 crystal. *Physics of the Solid State*, **2016**, 58, 155-159 | 0.8 | 9 |
| 96 | Magnetic anisotropy in the basal plane of the rare-earth ferroborate Nd0.75Dy0.25Fe3(BO3)4. *Low Temperature Physics*, **2012**, 38, 446-449 | 0.7 | 9 |
| 95 | Single-crystal growth of trigonal DyFe3(BO3)4 and study of magnetic properties. *Crystallography Reports*, **2008**, 53, 1140-1143 | 0.6 | 9 |
| 94 | Optical Spectra of Gd3Ga5O12:Mn Crystals. *Inorganic Materials*, **2002**, 38, 1032-1034 | 0.9 | 9 |
| 93 | Raman scattering in multiferroic SmFe3(BO3)4. *Low Temperature Physics*, **2016**, 42, 475-483 | 0.7 | 9 |
| 92 | Crystal structure, phase transition and structural deformations in iron borate (YBi)Fe(BO) in the temperature range 90-500 K. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2018**, 74, 226-238 | 1.8 | 8 |
| 91 | Inclined magnetic structure of iron borate PrxY1−xFe3(BO3)4: A neutron diffraction study and crystal-field calculations. *Physical Review B*, **2015**, 91, | 3.3 | 8 |
| 90 | Effect of an electric field on the magnetization of a SmFe3(BO3)4 single crystal. *Physics of the Solid State*, **2015**, 57, 1357-1361 | 0.8 | 7 |
| 89 | Temperature-dependent absorption lines observation in Raman spectra of SmFe3 (BO3)4 ferroborate. *Journal of Raman Spectroscopy*, **2018**, 49, 1732-1735 | 2.3 | 7 |
| 88 | Magnetic properties of Nd0.9Dy0.1Fe3(BO3)4. *Physica B: Condensed Matter*, **2012**, 407, 393-397 | 2.8 | 7 |
| 87 | Magnetic properties of the rare-earth ferroborate SmFe3(BO3)4. *Journal of Experimental and Theoretical Physics*, **2013**, 116, 800-805 | 1 | 7 |
| 86 | Low-temperature absorption spectra and electron structure of HoFe3(BO3)4 single crystal. *Low Temperature Physics*, **2017**, 43, 610-616 | 0.7 | 7 |
| 85 | Magnetic Properties of Sm0.7Ho0.3Fe3(BO3)4. *Journal of Experimental and Theoretical Physics*, **2012**, 115, 815-828 | 1 | 7 |
| 84 | Structure of Gd0.95Bi0.05Fe3(BO3)4 single crystals at 293 and 90 K. *Crystallography Reports*, **2016**, 61, 558-565 | 0.6 | 7 |
| 83 | Observation of soft phonon mode in TbFe3(BO3)4 by inelastic neutron scattering. *Physical Review B* , **2018**, 97, | 3.3 | 6 |

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| 82 | Terahertz spectroscopy of crystal-field transitions in magnetoelectric TmAl3(BO3)4. *Physical Review B*, **2016**, 94, | 3.3 | 6 |
| 81 | IR spectroscopy of the low-frequency phonon spectrum of the TbFe3(BO3)4 single-crystal. *Low Temperature Physics*, **2014**, 40, 1087-1096 | 0.7 | 6 |
| 80 | Magnetic, magnetoelastic, and spectroscopic properties of TmAl3(BO3)4. *Journal of Experimental and Theoretical Physics*, **2014**, 119, 737-744 | 1 | 6 |
| 79 | High-temperature heat capacity of YFe3(BO3)4. *Physics of the Solid State*, **2014**, 56, 276-278 | 0.8 | 5 |
| 78 | Spectroscopic properties and structure of the ErFe3(BO3)4 single crystal. *Physics of the Solid State*, **2014**, 56, 2056-2063 | 0.8 | 5 |
| 77 | Origin of color centers in the flux-grown europium gallium garnet. *Journal of Applied Physics*, **2008**, 103, 083102 | 2.5 | 5 |
| 76 | Spin glass state in crystals of barium ferrigermanate Ba2Fe2GeO7. *Physics of the Solid State*, **2006**, 48, 1906-1908 | 0.8 | 5 |
| 75 | Gallium Composition-Dependent Structural Phase Transitions in HoFe3−xGax(BO3)4 Solid Solutions: Crystal Growth, Structure, and Raman Spectroscopy Study. *Crystal Growth and Design*, **2020**, 20, 1058-1069 | 3.5 | 5 |
| 74 | Specific features of magnetic properties of rare-earth ferroborates Sm1 − x La x Fe3(BO3)4. *Physics of the Solid State*, **2015**, 57, 569-575 | 0.8 | 4 |
| 73 | Synthesis of NdSc3(BO3)4 single crystals and study of its structure properties. *Journal of Alloys and Compounds*, **2020**, 828, 154355 | 5.7 | 4 |
| 72 | Magnetic properties of the Nd0.95Dy0.05Fe3(BO3)4 ferroborate with small substitution in the rare-earth element subsystem. *Journal of Experimental and Theoretical Physics*, **2013**, 117, 862-874 | 1 | 4 |
| 71 | Magnetoelectric and magnetic properties of aluminum borates Ho1 − x Nd x Al3(BO3)4. *JETP Letters*, **2015**, 101, 318-324 | 1.2 | 4 |
| 70 | The growth and structure of Pb3Ga2Ge4O14 and Ba3Ga2Ge4O14 single crystals. *Crystallography Reports*, **2004**, 49, 271-274 | 0.6 | 4 |
| 69 | Elastic, magnetoelastic, magnetopiezoelectric, and magnetodielectric characteristics of HoAl3(BO3)4. *Low Temperature Physics*, **2020**, 46, 923-931 | 0.7 | 4 |
| 68 | Magnetodielectrical and magnetopiezoelectrical effects in NdFe3(BO3)4. *Low Temperature Physics*, **2016**, 42, 1112-1119 | 0.7 | 4 |
| 67 | Crystal structure and structural phase transition in bismuth-containing HoFe(BO) in the temperature range 11-500 K. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2019**, 75, 954-968 | 1.8 | 3 |
| 66 | High-temperature heat capacity of YbAl3(BO3)4. *Russian Journal of Physical Chemistry A*, **2014**, 88, 1436-1437 | 0.7 | 3 |
| 65 | Magnetic field-induced phase transitions in the antiferromagnet Nd0.6Dy0.4Fe3(BO3)4. *Low Temperature Physics*, **2014**, 40, 146-150 | 0.7 | 3 |

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| 64 | Magnetic and magnetoelectric properties of terbium aluminum borate. *Bulletin of the Russian Academy of Sciences: Physics*, **2014**, 78, 97-99 | 0.4 | 3 |
| 63 | Magnetoelectric Polarization of Paramagnetic HoAl3-XGaX(BO3)4 Single Crystals. *Solid State Phenomena*, **2014**, 215, 364-367 | 0.4 | 3 |
| 62 | Growth and characterization of Fe1 □x M x VO4 single crystals (M = Al, Cr, Co, Ga). *Crystallography Reports*, **2012**, 57, 955-958 | 0.6 | 3 |
| 61 | Magnetoelastic studies of Nd0.75Dy0.25Fe3(BO3)4 in the external magnetic field: Magnetic phase transitions. *Low Temperature Physics*, **2013**, 39, 936-947 | 0.7 | 3 |
| 60 | Magnetic properties of the Nd0.5Gd0.5Fe3(BO3)4 single crystal. *Physics of the Solid State*, **2011**, 53, 2032-2037 | 0.8 | 3 |
| 59 | Violation of axial symmetry of optical properties in the trigonal crystal Nd:GdFe2.1Ga0.9(BO3)4. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 1683-1686 | 2.3 | 3 |
| 58 | Magneto-optical activity and luminescence of f-f transitions in trigonal crystal TmAl3(BO3)4. *Optical Materials*, **2010**, 32, 1017-1021 | 3.3 | 3 |
| 57 | Gd3Ga5O12:Nd3+ crystals for a continuous-wave diode-pumped laser operating in 4F3/2 -s4I11/2 and 4F3/2 -s4I13/2 channels. *Crystallography Reports*, **2002**, 47, 308-312 | 0.6 | 3 |
| 56 | Synthesis and properties of barium ferrigermanate Ba2Fe2GeO7. *Physics of the Solid State*, **2005**, 47, 2114 | 0.8 | 3 |
| 55 | Monoclinic SmAl(BO): synthesis, structural and spectroscopic properties. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 654-660 | 1.8 | 3 |
| 54 | X-ray Natural Circular Dichroism Imaging of Multiferroic Crystals. *Crystals*, **2021**, 11, 531 | 2.3 | 3 |
| 53 | Magnetocapacitance, magnetoelasticity, and magnetopiezoelectric effect in HoFe3(BO3)4. *Low Temperature Physics*, **2018**, 44, 1341-1347 | 0.7 | 3 |
| 52 | Magnetic and Magnetodielectric Properties of Ho0.5Nd0.5Fe3(BO3)4. *Physics of the Solid State*, **2018**, 60, 1989-1998 | 0.8 | 3 |
| 51 | Spectroscopy of ff transitions, crystal-field calculations, and magnetic and quadrupole helix chirality in DyFe3(BO3)4. *Physical Review B*, **2017**, 95, | 3.3 | 2 |
| 50 | Comparing the magnetic and magnetoelectric properties of the SmFe3(BO3)4 ferroborate single crystals grown using different solvents. *Journal of Crystal Growth*, **2019**, 518, 1-4 | 1.6 | 2 |
| 49 | Complex magnetic order in the Nd(Tb)Fe3(BO3)4 multiferroic revealed by single-crystal neutron diffraction. *Physical Review B*, **2019**, 99, | 3.3 | 2 |
| 48 | Magnetic resonance and spin-reorientation transitions in the Nd0.75Ho0.25Fe3(BO3)4 multiferroic. *Low Temperature Physics*, **2015**, 41, 75-79 | 0.7 | 2 |
| 47 | Structural phase transition in TbFe2.5Ga0.5(BO3)4 single crystal. *Ferroelectrics*, **2020**, 559, 128-134 | 0.6 | 2 |

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| 46 | Mode Splitting in 37–42 GHz Barium Hexaferrite Resonator: Theory and Device Applications. *IEEE Transactions on Magnetics*, **2014**, 50, 1-7 | 2 | 2 |
| 45 | Piezoelectric response in SmFe3(BO3)4, a non-piezoactive configuration. The surface piezoelectric effect. *Low Temperature Physics*, **2017**, 43, 924-929 | 0.7 | 2 |
| 44 | Features of the intensity behavior of Kramers doublet components in NdFe3(BO3)4 in the transverse Zeeman geometry. *Low Temperature Physics*, **2017**, 43, 590-596 | 0.7 | 2 |
| 43 | Giant natural circular dichroism of vibronic transitions in HoAl3(BO3)4. *JETP Letters*, **2015**, 102, 493-495 | 1.2 | 2 |
| 42 | Antiferromagnetic resonance study of the magnetic structure of Nd0.75Dy0.25Fe3(BO3)4. *Low Temperature Physics*, **2014**, 40, 629-634 | 0.7 | 2 |
| 41 | Magnetic Properties of Nd0.6Dy0.4Fe3(Bo3)4. *Solid State Phenomena*, **2012**, 190, 261-264 | 0.4 | 2 |
| 40 | Magnetic properties of rare earth iron borates: Spectroscopic investigation by the method of rare earth probe. *Bulletin of the Russian Academy of Sciences: Physics*, **2007**, 71, 1563-1565 | 0.4 | 2 |
| 39 | Electromechanical properties of Pb3Ga2Ge4O14 piezoelectric crystals grown from solution in a melt. *Physics of the Solid State*, **2004**, 46, 458-461 | 0.8 | 2 |
| 38 | Circular dichroism of some Nd-doped crystals of the langasite family. *Crystallography Reports*, **2005**, 50, 954-960 | 0.6 | 2 |
| 37 | Magnetic circular dichroism in the canted antiferromagnet □Fe2O3: Bulk single crystal and nanocrystals. *Journal of Magnetism and Magnetic Materials*, **2020**, 498, 166208 | 2.8 | 2 |
| 36 | Magnetic circular dichroism and absorption spectra of ff□transitions 5I8 -s5F2 and 5F3 in the HoFe3(BO3)4 single crystal. *Low Temperature Physics*, **2020**, 46, 734-739 | 0.7 | 2 |
| 35 | Transformation from an easy-plane to an easy-axis antiferromagnetic structure in the mixed rare-earth ferroborates Pr x Y1-x Fe3(BO3)4: magnetic properties and crystal field calculations. *Journal of Physics Condensed Matter*, **2016**, 28, 396001 | 1.8 | 2 |
| 34 | The magnetoelectric MEE-effect in the SmFe3(BO3)4 multiferroic in dc and ac electric fields. *Journal of Applied Physics*, **2018**, 124, 134101 | 2.5 | 2 |
| 33 | Optical properties of the HoGa3(BO3)4 crystal: experiment and ab initio calculation. *Ferroelectrics*, **2020**, 559, 135-140 | 0.6 | 1 |
| 32 | Comparative Study of the Magnetoelectric Effect in HoAl3(BO3)4 and HoGa3(BO3)4 Single Crystals. *Physics of the Solid State*, **2018**, 60, 510-514 | 0.8 | 1 |
| 31 | Antiferromagnetic resonance in crystalline PrFe3(BO3)4. *Low Temperature Physics*, **2018**, 44, 139-143 | 0.7 | 1 |
| 30 | Features of electronic paramagnetic resonance in the ErAl3(BO3)4 single crystal. *Low Temperature Physics*, **2018**, 44, 863-865 | 0.7 | 1 |
| 29 | Heat capacity of Gd0.5Nd0.5Fe3(BO3)4 in the temperature interval of 344–1021 K. *Russian Journal of Physical Chemistry A*, **2014**, 88, 1626-1628 | 0.7 | 1 |

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| 28 | High-temperature heat capacity of TbFe3(BO3)4. *Physics of the Solid State*, **2014**, 56, 926-928 | 0.8 | 1 |
| 27 | Heat capacity of YAl3(BO3)4 in the range of 329–1051 K. *Doklady Physics*, **2013**, 58, 533-534 | 0.8 | 1 |
| 26 | Temperature- and magnetic-field-tuning of magnetic phases in multiferroic NdFe3(BO3)4. *Journal of the Korean Physical Society*, **2013**, 62, 1410-1413 | 0.6 | 1 |
| 25 | Optics and spectroscopy of a Pb3Ga2Ge4O14:Nd3+ crystal, a new representative of the langasite family. *Crystallography Reports*, **2004**, 49, 459-462 | 0.6 | 1 |
| 24 | Crystallization of Ba3Fe2Ge4O14 and Ba2Fe2GeO7 in oxide-fluoride fluxes. *Crystallography Reports* , **2005**, 50, S106-S110 | 0.6 | 1 |
| 23 | Crystal structure of bismuth-containing NdFe(BO) in the temperature range 20-500 K.. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2022**, 78, 1-13 | 1.8 | 1 |
| 22 | Electronic band structures of NdFe3(BO3)4 and NdGa3(BO3)4 crystals: ab initio calculations. *Ferroelectrics*, **2021**, 575, 11-17 | 0.6 | 1 |
| 21 | Magnetic excitations and exchange interactions in the substituted multiferroics (Nd,Tb)Fe3(BO3)4 revealed by inelastic neutron scattering. *Physical Review B*, **2021**, 103, | 3.3 | 1 |
| 20 | Phase transitions and p– phase diagram of the multiferroic TbFe 3 (BO 3 ) 4 crystal. *Journal of Raman Spectroscopy*, | 2.3 | 1 |
| 19 | Manifestation of Spin Correlations in Monocrystalline ErAl3(BO3)4. *Low Temperature Physics*, **2019**, 45, 1041-1045 | 0.7 | 0 |
| 18 | Specific features of magnetic properties of Tb1– Ho x Al3(BO3)4 aluminoborates. *Physics of the Solid State*, **2016**, 58, 660-664 | 0.8 | 0 |
| 17 | Specific features of Nd3+ Kramers doublets–splitting in an antiferromagnetic crystal NdFe3(BO3)4 in an external magnetic field. *Low Temperature Physics*, **2019**, 45, 928-933 | 0.7 | 0 |
| 16 | Crystal nucleation of high-temperature Fe x Ga2 –x O3 multiferroics in bismuth trimolybdate-borate fluxes. *Crystallography Reports*, **2008**, 53, 1232-1235 | 0.6 | 0 |
| 15 | Regulation of the phase transition temperature and hysteresis width by changing the composition of Eu1–LaxFe3(BO3)4 solid solution. *Physical Review Materials*, **2021**, 5, | 3.2 | 0 |
| 14 | Magnetic and magnetoelectric properties of the Tb0.75Ho0.25Fe3(BO3)4 ferroborate. *Physics of the Solid State*, **2017**, 59, 550-554 | 0.8 | |
| 13 | The Pockels effect in TmAl3(BO3)4. *Ferroelectrics*, **2017**, 506, 152-158 | 0.6 | |
| 12 | Magnetic and Magnetoelectric Properties of Sm1-xLaxFe3(BO3)4 Single Crystals. *Solid State Phenomena*, **2015**, 233-234, 368-370 | 0.4 | |
| 11 | Soft modes in HoFe2.5Ga0.5(BO3)4 solid solution. *Ferroelectrics*, **2020**, 556, 16-22 | 0.6 | |

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| 10 | Melt-Solution Synthesis and Magnetic Properties of SmFe2.8Sc0.2(BO3)4 Ferroborate. *Crystallography Reports*, **2020**, 65, 307-308 | 0.6 |
| 9 | Features of Magnetic, Magnetoelectric and Magnetoelastic Properties of HoAl3(BO3)4. *Solid State Phenomena*, **2014**, 215, 352-357 | 0.4 |
| 8 | Pb3Ga2Ge4O14:Nd3+ crystal – a novel nonlinear laser material. *Physica Status Solidi A*, **2005**, 202, R111-R112 | |
| 7 | Spectroscopic study of the TbAl3(BO3)4 single crystal: Raman and luminescence spectroscopy. *Low Temperature Physics*, **2020**, 46, 1223-1230 | 0.7 |
| 6 | Low-temperature magnetic phase transitions in the multiferroic Nd0.9Dy0.1Fe3(BO3)4. Part 1. Transitions induced by magnetic fields directed along the trigonal symmetry axis. Spontaneous transitions with temperature changes. *Low Temperature Physics*, **2016**, 42, 273-279 | 0.7 |
| 5 | Magnetic properties of Ho0.9Er0.1Fe3(BO3)4. *Journal of Physics: Conference Series*, **2019**, 1389, 012045 | 0.3 |
| 4 | Comparison of the Absorption Spectra of Nd3+ Ions in the NdFe3(BO3)4, Nd0.5Gd0.5Fe3(BO3)4, and Ho0.75Nd0.25Fe3(BO3)4 Crystals. *Physics of the Solid State*, **2021**, 63, 113-121 | 0.8 |
| 3 | Magnetic and Magnetoelectric Properties of Scandoborate NdSc3(BO3)4. *Physics of the Solid State*, **2021**, 63, 968-971 | 0.8 |
| 2 | Raman scattering study of the rare-earth binary ferroborate Nd0.75Dy0.25Fe3(BO3)4 single crystal. *Low Temperature Physics*, **2021**, 47, 1011-1021 | 0.7 |
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