

Natalia Kazak

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Uniaxial magnetic anisotropy in Co ₂ O ₃ . Physical Review B, 2013, 88, .	3.2	36
2	Structural properties and high-temperature spin and electronic transitions in GdCoO ₃ : Experiment and theory. Physical Review B, 2013, 88, .	3.2	33
3	Low-temperature magnetic behavior of the rare-earth cobaltites GdCoO ₃ and SmCoO ₃ . Physics of the Solid State, 2007, 49, 2126-2131.	0.6	32
4	Crystal structure and magnetic anisotropy of ludwigite Co ₂ FeO ₂ BO ₃ . Journal of Experimental and Theoretical Physics, 2011, 113, 1015-1024.	0.9	29
5	Magnetic and electrical properties of cobalt oxyborate Co ₃ BO ₅ . Physics of the Solid State, 2007, 49, 651-653.	0.6	27
6	Magnetic, optical, and electrical properties of solid solutions V _x Fe _{1-x} BO ₃ . Journal of Experimental and Theoretical Physics, 2002, 94, 299-306.	0.9	21
7	Spin-glass magnetic ordering in CoMgGaO ₂ BO ₃ ludwigite. Low Temperature Physics, 2012, 38, 172-174.	0.6	21
8	Effect of magnetic frustrations on magnetism of the Fe ₃ BO ₅ and Co ₃ BO ₅ ludwigites. Journal of Magnetism and Magnetic Materials, 2019, 474, 493-500.	2.3	19
9	Effect of strontium and barium doping on the magnetic state and electrical conductivity of GdCoO ₃ . Physics of the Solid State, 2007, 49, 1498-1506.	0.6	17
10	Effect of the diamagnetic dilution on the magnetic ordering and electrical conductivity in the Co ₃ O ₂ BO ₃ : Ga ludwigite. Physics of the Solid State, 2012, 54, 2212-2221.	0.6	17
11	Low-field magnetization of ludwigites Co ₃ O ₂ BO ₃ and Co _{3-x} Fe _x O ₂ BO ₃ (x ≈ 0.14). Physics of the Solid State, 2009, 51, 966-969.	0.6	13
12	Crystal structure and magnetization of a Co ₃ B ₂ O ₆ single crystal. Journal of Experimental and Theoretical Physics, 2013, 117, 94-107.	0.9	13
13	Spin state crossover in Co ₃ O ₂ BO ₃ . Physical Review B, 2021, 103, .	3.3	11
14	Antiferromagnetic ordering in REM cobaltite GdCoO ₃ . Physics of the Solid State, 2012, 54, 79-83.	0.6	12
15	Structure and magnetism of copper-substituted cobalt ludwigite Co ₃ O ₂ BO ₃ . Low Temperature Physics, 2013, 39, 709-713.	0.6	12
16	Element selective magnetism in Ho _{0.5} Co _{0.5} O ₂ BO ₃ . Physical Review B, 2021, 103, .	3.3	11

#	ARTICLE	IF	CITATIONS
19	Crystal structure and electronic states of Co and Gd ions in a $\text{Gd}_{0.4}\text{Sr}_{0.6}\text{CoO}_{2.85}$ single crystal. JETP Letters, 2016, 103, 196-200.	1.4	11
20	Magnetic and electrical properties of $\text{Fe}_{1.91}\text{V}_{0.09}\text{BO}_4$ warwickite. Journal of Experimental and Theoretical Physics, 2003, 97, 989-995.	0.9	10
21	Electron transport in FeBO_3 ferroborate at ultrahigh pressures. JETP Letters, 2012, 94, 748-752.	1.4	8
22	Analysis of the electrical and optical properties of VBO_3 single crystals and $\text{Fe}_{1-x}\text{V}_x\text{BO}_3$ solid solutions on the basis of a many-electron model of energy band structure. Physics of the Solid State, 2004, 46, 1462-1468.	0.6	7
23	Identification of local magnetic contributions in a Co_2FeBO_5 single crystal by XMCD spectroscopy. JETP Letters, 2013, 96, 650-654.	1.4	7
24	Crystal and local atomic structure of MgFeBO_4 , $\text{Mg}_{0.5}\text{Co}_{0.5}\text{BO}_4$ and CoFeBO_4 : Effects of Co substitution. Physica Status Solidi (B): Basic Research, 2015, 252, 2245-2258.	1.5	7
25	Mössbauer effect study in $\text{Fe}_{1-x}\text{V}_x\text{BO}_3$ solid solutions. Physics of the Solid State, 2004, 46, 1088-1094.	0.6	6
26	Experimental observation of the virtual electronic states of a mott-Hubbard insulator FeBO_3 in infrared absorption spectra. JETP Letters, 2009, 90, 519-523.	1.4	6
27	Contribution of Co^{3+} ions to the high-temperature magnetic and electrical properties of GdCoO_3 . Journal of Experimental and Theoretical Physics, 2012, 114, 841-849.	0.9	6
28	Anomalies of the electronic structure and physical properties of rare-earth cobaltites near spin crossover. JETP Letters, 2016, 104, 588-600.	1.4	6
29	Evolution of the Mössbauer spectra of ludwigite $\text{Co}_{1-x}\text{Fe}_x\text{O}_2\text{BO}_3$ with substitution of iron for cobalt. Physics of the Solid State, 2013, 55, 1175-1179.	0.6	5
30	Disorder- and correlation-induced charge carriers localization in oxyborate MgFeBO_4 , $\text{Mg}_{0.5}\text{Co}_{0.5}\text{FeBO}_4$, CoFeBO_4 single crystals. Journal of Alloys and Compounds, 2015, 642, 232-237.	5.5	4
31	Structural, Magnetic, and Thermodynamic Properties of Ordered and Disordered Cobaltite $\text{Gd}_{0.1}\text{Sr}_{0.9}\text{CoO}_3$. Journal of Experimental and Theoretical Physics, 2019, 128, 630-640.	0.9	4
32	Electronic and magnetic states of Fe ions in Co_2FeBO_5 . Dalton Transactions, 2021, 50, 9735-9745.	3.3	4
33	Anisotropic thermal expansion and electronic transitions in the Co_3BO_5 ludwigite. Dalton Transactions, 2022, 51, 6345-6357.	3.3	4
34	Magnetic properties of $\text{Co}_{2+2x}\text{Co}_{1-x}\text{Fe}_{3+3x}\text{BO}_5$ ($x = 0.10$) single crystals with a ludwigite structure. Journal of Experimental and Theoretical Physics, 2017, 124, 623-627.	0.9	3
35	Spin-Flop Transition in $\text{Co}_2\text{B}_2\text{O}_5$ Pyroborate. JETP Letters, 2021, 114, 92-97.	1.4	3
36	$\text{Co}_5/3\text{Nb}_{1/3}\text{BO}_4$: A new cobalt oxyborate with a complex magnetic structure. Journal of Magnetism and Magnetic Materials, 2021, 534, 168056.	2.3	3

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37	Electronic transitions in the VBO3 single crystal at high pressures. JETP Letters, 2008, 88, 762-766.	1.4	2
38	Electronic properties of Fe _{1-x} VxBO3 at ambient conditions and at high pressure. Journal of Physics Condensed Matter, 2005, 17, S795-S800.	1.8	1
39	Low-Temperature Schottky Anomalies and the Magnetic State of the p Electrons of Oxygen in Substituted Gd _{0.4} Sr _{0.6} CoO ₃ " Cobaltites. Journal of Experimental and Theoretical Physics, 2018, 126, 217-223.	0.9	1
40	On the Two-Phase Magnetic State in a Cu _x Zn _{1-x} Cr ₂ Se ₄ Cation-Substituted Chalcogenide Spinel. Physics of the Solid State, 2001, 43, 1089.	0.6	0
41	Effect of thermal instability on the magnetic properties of Cu _{1-x} ZnxCr ₂ Se ₄ solid solutions. Physics of the Solid State, 2002, 44, 1720-1722.	0.6	0
42	¹¹ B-NMR Study of the Ferromagnet VBO3. AIP Conference Proceedings, 2006, , .	0.4	0
43	Evolution of the optical absorption spectra and electronic structure of the VBO3 crystal under high pressures. Journal of Experimental and Theoretical Physics, 2009, 109, 455-465.	0.9	0
44	Effect of Electron Delocalization on the "Recoil-Free" Absorption of ⁵⁷ Fe-Ray Photons in Fe _{1.75} V _{0.25} BO ₄ Warwickite. JETP Letters, 2021, 113, 279-284.	1.4	0