Yuriy Knyazev

List of Publications by Year in descending order

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130	761	623734	713466
papers	citations	14 h-index	21 g-index

130	130	130	521
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uniaxial magnetic anisotropy in Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mo>.</mml:mo><mml:mn>25</mml:mn></mml:mrow></mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>0</mml:mn></mml:msub><mml:mo>.</mml:mo><mml:mn>75</mml:mn></mml:mrow></mml:math>	3.2	36
2	Electronic structure, magnetic, and optical properties of the intermetallic compoundsR2Fe17(R=Pr,Gd). Physical Review B, 2006, 73, .	3.2	29
3	Crystal structure and magnetic anisotropy of ludwigite Co2FeO2BO3. Journal of Experimental and Theoretical Physics, 2011, 113, 1015-1024.	0.9	29
4	Bacterial Ferrihydrite Nanoparticles: Preparation, Magnetic Properties, and Application in Medicine. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2297-2304.	1.8	29
5	The superexchange interactions in mixed Coâ€“Fe ludwigite. Journal of Magnetism and Magnetic Materials, 2011, 323, 521-527.	2.3	28
6	Crystal structure and magnetic properties of Mn substituted ludwigite Co3O2BO3. Journal of Magnetism and Magnetic Materials, 2012, 324, 923-927.	2.3	26
7	Magnetic anisotropy and core-shell structure origin of the biogenic ferrihydrite nanoparticles. Journal of Alloys and Compounds, 2021, 851, 156753.	5.5	22
8	Spin-glass magnetic ordering in CoMgGaO2BO3 ludwigite. Low Temperature Physics, 2012, 38, 172-174.	0.6	21
9	MÃ¶ssbauer Spectroscopy Study of the Superparamagnetism of Ultrasmall Ïµ-Fe2O3 Nanoparticles. JETP Letters, 2018, 108, 527-531.	1.4	21
10	Îµ-Fe2O3 nanoparticles embedded in silica xerogel â€“ Magnetic metamaterial. Ceramics International, 2018, 44, 17852-17857.	4.8	21
11	Effect of magnetic frustrations on magnetism of the Fe3BO5 and Co3BO5 ludwigites. Journal of Magnetism and Magnetic Materials, 2019, 474, 493-500.	2.3	19
12	Effect of the diamagnetic dilution on the magnetic ordering and electrical conductivity in the Co3O2BO3: Ga ludwigite. Physics of the Solid State, 2012, 54, 2212-2221.	0.6	17
13	Uniaxial anisotropy and low-temperature antiferromagnetism of Mn2BO4 single crystal. Journal of Magnetism and Magnetic Materials, 2015, 393, 316-324.	2.3	16
14	Spin-glass behavior in single crystals of hetero-metallic magnetic warwickites MgFeBO4, Mg0.5Co0.5FeBO4, and CoFeBO4. Journal of Magnetism and Magnetic Materials, 2015, 392, 114-125.	2.3	16
15	Interparticle magnetic interactions in synthetic ferrihydrite: MÃ¶ssbauer spectroscopy and magnetometry study of the dynamic and static manifestations. Journal of Alloys and Compounds, 2021, 889, 161623.	5.5	14
16	Crystal structure and magnetization of a Co3B2O6 single crystal. Journal of Experimental and Theoretical Physics, 2013, 117, 94-107.	0.9	13
17	Spin state crossover in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 103, .	3.2	13
18	Structure and magnetism of copper-substituted cobalt ludwigite Co3O2BO3. Low Temperature Physics, 2013, 39, 709-713.	0.6	12

#	ARTICLE	IF	CITATIONS
19	Element selective magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ho</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn>		

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37	Structure and physical properties of the high-entropy AlCrFeCoNiCu alloy rapidly quenched from the melt. Physics of the Solid State, 2015, 57, 1616-1626.	0.6	7
38	Effect of Calcination Temperature on Activity of Fe2O3â€“Al2O3 Nanocomposite Catalysts in CO Oxidation. Catalysis Letters, 2020, 150, 3377-3385.	2.6	7
39	Nuclear forward scattering application to the spiral magnetic structure study in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Îµ</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	7
40	Electronic properties of strain-disordered Ni2.16Mn0.84Ga alloy. Physics of the Solid State, 2007, 49, 1773-1779.	0.6	6
41	Theoretical and experimental investigations on the magnetic and related properties of RAgSn2 (R=Ho,) Tj ETQq1 1 0.784314 rgBT /Over	3.7	6
42	The study of the structure of the electronic states of the FeGa3 and RuGa3 compounds by optical spectroscopy method. Physics of the Solid State, 2017, 59, 2244-2247.	0.6	6
43	Fe-induced enhancement of antiferromagnetic spin correlations in Mn2â^'xFexBO4. Journal of Magnetism and Magnetic Materials, 2018, 452, 90-99.	2.3	6
44	Magnetic Fractions of PM_{2.5}, PM_{2.5â€“10}, and PM₁₀ from Coal Fly Ash as Environmental Pollutants. ACS Omega, 2021, 6, 20076-20085.	3.5	6
45	Synthesis and characterization of nanoscale composite particles formed by 2D layers of Cuâ€“Fe sulfide and Mg-based hydroxide. Journal of Materials Chemistry A, 2022, 10, 9621-9634.	10.3	6
46	Desulfovibrio desulfuricans AY5 Isolated from a Patient with Autism Spectrum Disorder Binds Iron in Low-Soluble Greigite and Pyrite. Microorganisms, 2021, 9, 2558.	3.6	6
47	Electronic structure of the intermetallic compounds Ce2Fe17 and Ce2Fe15.3 M 1.7 (M = Al, Si): Experiment and theory. Physics of the Solid State, 2007, 49, 99-106.	0.6	5
48	Evolution of the mÃ¶ssbauer spectra of ludwigite Co3 â^' x Fe x O2BO3 with substitution of iron for cobalt. Physics of the Solid State, 2013, 55, 1175-1179.	0.6	5
49	Electronic structure and spectral properties of RCuSi (R=Nd,Gd) compounds. Physica B: Condensed Matter, 2016, 487, 85-89.	2.7	5
50	MÃ¶ssbauer Study of the Magnetic Transition in Ïµ-Fe2O3 Nanoparticles Using Synchrotron and Radionuclide Sources. JETP Letters, 2019, 110, 613-617.	1.4	5
51	Electronic properties and crystal structure of orderable Cu3Pd alloy. Physics of Metals and Metallography, 2007, 103, 370-377.	1.0	4
52	Effect of plastic deformation on physical properties and structure of the shape memory alloy Ti49.5Ni50.5. Physics of the Solid State, 2011, 53, 1397-1403.	0.6	4
53	Influence of copper impurities on the evolution of the electronic structure and optical spectra of the LuNi5 compound. Physics of the Solid State, 2015, 57, 866-870.	0.6	4
54	Disorder- and correlation-induced charge carriers localization in oxyborate MgFeBO4, Mg0.5Co0.5FeBO4, CoFeBO4 single crystals. Journal of Alloys and Compounds, 2015, 642, 232-237.	5.5	4

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55	Electronic and Spectral Properties of RRhSn (R = Gd, Tb) Intermetallic Compounds. Physics of the Solid State, 2018, 60, 225-229.	0.6	4
56	In Situ FMR Study of the Selective H2S-Oxidation Stability of Îµ-Fe2O3/SiO2 Catalysts. Applied Magnetic Resonance, 2019, 50, 725-733.	1.2	4
57	Electronic and magnetic states of Fe ions in Co2FeBO5. Dalton Transactions, 2021, 50, 9735-9745.	3.3	4
58	Electronic Structure and Spectral Characteristics of the Mn3Al Compound. Physics of Metals and Metallography, 2021, 122, 954-959.	1.0	4
59	Geometric resonance in the optical properties of microinhomogeneous PdMnxFe1â^'x alloys. Physics of the Solid State, 2003, 45, 895-898.	0.6	3
60	Optical properties of RNi5 intermetallic compounds (R = Y, La, Ce). Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	3
61	Effect of severe plastic deformation and ultrarapid quenching on the properties of magnetic shape memory alloys near the Ni2MnGa composition. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 948-951.	0.6	3
62	Effect of alloying with iron on the electronic properties adnd structure of the Cu3Pd alloy. Physics of Metals and Metallography, 2010, 109, 337-346.	1.0	3
63	Effect of severe plastic deformation on the properties of the Pt3Fe antiferromagnet. Physics of the Solid State, 2010, 52, 317-322.	0.6	3
64	Optical absorption and electronic structure of intermetallic compound RuIn3. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 83-86.	0.6	3
65	Optical spectroscopy and electronic structure of the GdCu x compounds (x = 1, 2, 5). Physics of the Solid State, 2013, 55, 140-144.	0.6	3
66	Optical spectroscopy and electronic structure of TmRhGe compound. Physics of the Solid State, 2015, 57, 2357-2360.	0.6	3
67	Calculation of the electronic structure of the intermetallic compounds ErNi5 â^' x Al x (x = 0, 1, 2). Physics of the Solid State, 2015, 57, 1-4.	0.6	3
68	Evolution of the electronic structure and optical spectra of intermetallides DyNi5 â^' x Cu x under changes of concentration. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 357-363.	0.6	3
69	Specific features of the electronic structure and spectral characteristics of the Gd5Si3 compound. Physics of the Solid State, 2017, 59, 429-433.	0.6	3
70	Magnetic properties of Co 2 2+ Co 1 â^' x 3+ Fe x 3+ BO5 (x = 0.10) single crystals with a ludwigite structure. Journal of Experimental and Theoretical Physics, 2017, 124, 623-627.	0.9	3
71	Ion reduction in iron oxide and oxyhydroxide nanoparticles during ultrasonic treatment. Advanced Powder Technology, 2019, 30, 2620-2625.	4.1	3
72	Cation Distribution in the Composite Materials of the CaFe2O4-Î±-Fe2O3 Series. Journal of Structural Chemistry, 2019, 60, 763-771.	1.0	3

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73	Study of mixed-valence Mn2BO4 using XRD, XPS and XAFS spectroscopies. Physica B: Condensed Matter, 2019, 560, 228-235.	2.7	3
74	Influence of magnetic nanoparticles on cells of Ehrlich ascites carcinoma. AIP Advances, 2021, 11, 015019.	1.3	3
75	MÃ¶ssbauer and MCD spectroscopy of the Fe3S4 nanoparticles synthesized by the thermal decomposition method with two different surfactants. Current Applied Physics, 2021, 25, 55-61.	2.4	3
76	Effect of severe plastic deformation on the electronic properties of the Cu72Au24Ag4 alloy. Physics of the Solid State, 2010, 52, 12-17.	0.6	2
77	Optical spectroscopy and electronic structure of compounds HoNi5 â˜' x Al x (x = 0, 1, 2). Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 115, 690-695.	0.6	2
78	Role of Fe and Co in optical conductivity and electronic structure of TbNi4Fe and TbNi4Co. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 414-418.	0.6	2
79	Electronic structure and optical properties of the HoCoSi and ErNiSi compounds. Journal of Experimental and Theoretical Physics, 2016, 123, 638-642.	0.9	2
80	An Ellipsometric Investigation of the Optical Properties of Ru2Ge3 and Ru2Sn3 Compounds. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 368-371.	0.6	2
81	Anisometric Iron Oxide-Based Nanoparticles and Sols Based on Them: Preparation and Properties. Journal of Superconductivity and Novel Magnetism, 2019, 32, 971-975.	1.8	2
82	Magnetic and structural correlations in the warwickite Mn2OBO3. Low Temperature Physics, 2019, 45, 1046-1052.	0.6	2
83	Magnetic States of Fe2+ Ions in FexMn1Ââ€“ÂxS Induced by Chemical Pressure. Physics of the Solid State, 2021, 63, 68-74.	0.6	2
84	Maghemite Nanoparticles for DNA Extraction: Performance and Blocking Temperature. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1929-1936.	1.8	2
85	Effect of atomic disordering and iron admixture on the structure and properties of the Cu3Pd alloy. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 625-627.	0.6	1
86	Features of properties of microinhomogeneous PdMn x Fe1â˜' x alloys. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 1066-1068.	0.6	1
87	Evolution of the optical properties of DyNi5 â˜' x Al x compounds in dependence of aluminum concentration. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 106, 845-850.	0.6	1
88	Dependence of the optical properties of Fe78Si10B12 amorphous alloy on its structural state. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 107, 708-712.	0.6	1
89	Effect of plastic deformation on the electronic properties of the Cu60Pd40 alloy. Physics of the Solid State, 2009, 51, 234-240.	0.6	1
90	Optical properties and electronic structure of YNi5 â˜' x Cu x intermetallic compounds. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 808-813.	0.6	1

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91	Optical properties of Ni3Al1 â^' x Mn x alloys with various degrees of localization of magnetic moments. Physics of the Solid State, 2011, 53, 2486-2489.	0.6	1
92	Effect of crystallization of amorphous Fe5Co75Si4B16 alloy on its optical properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 112, 801-805.	0.6	1
93	Specific features of the electronic structure and spectral properties of NdNi5 â^' x Cu x compounds. Physics of the Solid State, 2013, 55, 2191-2195.	0.6	1
94	Optical spectroscopy and electronic structure of the Er5Ge3 compound. Physics of the Solid State, 2014, 56, 1737-1741.	0.6	1
95	Electronic structure and optical properties of the Pr5Ge3 compound. Physics of the Solid State, 2015, 57, 1705-1709.	0.6	1
96	Electronic structure of the TbMn0.33Ge2 compound: Band calculation and optical experiment. Physics of the Solid State, 2016, 58, 2373-2378.	0.6	1
97	Electronic structure and optical spectroscopy of the GdRhGe compound. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 574-579.	0.6	1
98	Spectral properties of RuAl2 and RuGa2 compounds: Ellipsometric analysis. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 123, 264-268.	0.6	1
99	Magnetic Properties of Ultrafine Îµ-Fe2O3 Nanoparticles in a Silicon Xerogel Matrix. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 875-877.	0.6	1
100	The Structure of Electronic States in FeSb2 According to Optical Spectroscopy and Band Calculations. Physics of the Solid State, 2019, 61, 969-972.	0.6	1
101	Features of Optical Absorption Spectra of GdFe2 and LuFe2 Intermetallic Compounds. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 350-353.	0.6	1
102	The Low-Temperature Magnetic State and Magnetic Ordering Temperature of Ïµ-Fe2O3 Iron Oxide Nanoparticles. IEEE Magnetics Letters, 2019, 10, 1-3.	1.1	1
103	Optical Properties of YFe2 and TbFe2 Compounds. Physics of the Solid State, 2020, 62, 1132-1135.	0.6	1
104	Electronic and Optical Properties of RCuGe Compounds (R = Dy, Ho). Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 1152-1155.	0.6	1
105	Electronic Structure and Optical Properties of the FeAl2 Compound. Physics of the Solid State, 2020, 62, 106-109.	0.6	1
106	Electronic Structure of the DyFe2Si2 Compound: Energy Band Calculations and Optical Studies. Physics of the Solid State, 2020, 62, 414-418.	0.6	1
107	Iron Oxide Nanoparticles for Isolating DNA from Blood Cells. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 965-969.	0.6	1
108	Composition, Structure and Reduction Reactivity of Composite Materials of the Î±-Fe2O3â€“Ð¡aFe2O4 System by Hydrogen. Journal of Siberian Federal University: Chemistry, 2019, 12, 54-72.	0.7	1

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109	Giant anisotropy of magnetic properties of hydrated iron fluoridotitanate single crystal. Journal of Alloys and Compounds, 2021, 898, 162748.	5.5	1
110	Electronic Structure and Optical Spectra of GdFeAl and GdFeSi Compounds. Physics of the Solid State, 2021, 63, 866-871.	0.6	1
111	Optical Spectroscopy of Intermetallic Compounds ScFe2 and ErFe2. Physics of the Solid State, 2021, 63, 1176-1180.	0.6	1
112	The Nature of Coloration of the PdM and Pd3M Compounds (M = Sc, Gd, Tb, Lu). Journal of Applied Spectroscopy, 2003, 70, 104-108.	0.7	0
113	Low-frequency optical conductivity of inhomogeneous alloys. Physics of the Solid State, 2006, 48, 409-412.	0.6	0
114	Low-energy peculiarities of the optical properties of inhomogeneous alloys. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 893-895.	0.6	0
115	Effect of change in structural and magnetic states of Pt74.1Fe25.9 alloy on its optical properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 347-351.	0.6	0
116	Effect of copper and cobalt impurities on the electronic structure and optical spectra of the intermetallic compound PrNi5. Physics of the Solid State, 2014, 56, 1933-1938.	0.6	0
117	Influence of structurization of amorphous Fe73.5Si13.5B9Nb3Cu1 alloy on its spectral properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 239-243.	0.6	0
118	Optical spectroscopy of intermetallic compounds TbNi2Mn x (x = 0, 0.5, 1). Physics of the Solid State, 2016, 58, 1729-1734.	0.6	0
119	Ab initio simulation of the electron structure and optical spectroscopy of ErRhGe compound. Physics of the Solid State, 2017, 59, 1275-1278.	0.6	0
120	A Role of the 3d Electron Subsystem in the Evolution of Band Structure and Magnetic and Optical Properties of ErNi5Ââ€“ÂxCox Compounds (x = 0â€“4). Physics of the Solid State, 2018, 60, 2363-2369.	0.6	0
121	The Influence of Copper Impurity on the Electronic Structure and Optical Properties of TmNi5 Compound. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 784-788.	0.6	0
122	Electronic Structure of GdCuGe Intermetallic Compound. Physics of the Solid State, 2018, 60, 631-633.	0.6	0
123	Structural Characteristics and Processability of Sphalerite in Lead-Zinc Ore of the Gorevka Deposit. Journal of Mining Science, 2019, 55, 995-1006.	0.6	0
124	Coatings Based on Al2Au Intermetallic Compound: Structure and Optical Properties. Physics of Metals and Metallography, 2019, 120, 1085-1090.	1.0	0
125	Magnetic Moments, Electronic Structure, and Optical Spectroscopy of Cobalt-Based Intermetallic Compounds YCo3, Y2Co7, and LaCo5. Journal of Experimental and Theoretical Physics, 2020, 131, 600-606.	0.9	0
126	Effect of Electron Delocalization on the â€œRecoil-Freeâ€•Absorption of Î³-Ray Photons in Fe1.75V0.25BO4 Warwickite. JETP Letters, 2021, 113, 279-284.	1.4	0

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127	Evolution of Electronic Structure of GdTi0.05MnxFe0.95â€“ xSi Compounds According to Band Calculations and Optical Investigations. Physics of Metals and Metallography, 2021, 122, 472-477.	1.0	0
128	10.1007/s11449-008-3008-3. , 2010, 104, 360.		0
129	Magnetic Properties of Feâ€“Cuâ€“Nbâ€“Siâ€“B Spinning Ribbons. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 1126-1130.	0.6	0
130	Ferrihydrite nanoparticles produced by Klebsiella oxytoca: Structure and properties dependence on the cultivation time. Advanced Powder Technology, 2022, 33, 103692.	4.1	0