

Yuriy Knyazev

List of Publications by Year in descending order

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130
papers

761
citations

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130
docs citations

130
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Double Coated Fe ₃ O ₄ @C@C Nanoparticles: Morphology Features, Magnetic Properties, Dye Adsorption. <i>Nanomaterials</i> , 2022, 12, 376.	4.1	11
2	Synthesis and characterization of nanoscale composite particles formed by 2D layers of Cu-Fe sulfide and Mg-based hydroxide. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9621-9634.	10.3	6
3	Role of the surface effects and interparticle magnetic interactions in the temperature evolution of magnetic resonance spectra of ferrihydrite nanoparticle ensembles. <i>Results in Physics</i> , 2022, 35, 105340.	4.1	10
4	Maghemite Nanoparticles for DNA Extraction: Performance and Blocking Temperature. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 1929-1936.	1.8	2
5	Ferrihydrite nanoparticles produced by <i>Klebsiella oxytoca</i> : Structure and properties dependence on the cultivation time. <i>Advanced Powder Technology</i> , 2022, 33, 103692.	4.1	0
6	Magnetic anisotropy and core-shell structure origin of the biogenic ferrihydrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156753.	5.5	22
7	Electronic and magnetic states of Fe ions in Co ₂ FeBO ₅ . <i>Dalton Transactions</i> , 2021, 50, 9735-9745.	3.3	4
8	Influence of magnetic nanoparticles on cells of Ehrlich ascites carcinoma. <i>AIP Advances</i> , 2021, 11, 015019.	1.3	3
9	Effect of Electron Delocalization on the Recoil-Free Absorption of ⁵⁷ Fe-Ray Photons in Fe _{1.75} V _{0.25} BO ₄ Warwickite. <i>JETP Letters</i> , 2021, 113, 279-284.	1.4	0
10	Vallerite, a Natural Two-Dimensional Composite: X-ray Absorption, Photoelectron, and Mössbauer Spectroscopy, and Magnetic Characterization. <i>ACS Omega</i> , 2021, 6, 7533-7543.	3.5	8
11	Spin state crossover in $\text{CoMn}_3\text{O}_{10}$. <i>Physical Review B</i> , 2021, 103, .	3.3	13
12	Dynamic remagnetisation of CoFe ₂ O ₄ nanoparticles: thermal fluctuational thawing of anisotropy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 275003.	2.8	9
13	Mössbauer and MCD spectroscopy of the Fe ₃ S ₄ nanoparticles synthesized by the thermal decomposition method with two different surfactants. <i>Current Applied Physics</i> , 2021, 25, 55-61.	2.4	3
14	Evolution of Electronic Structure of GdTi _{0.05} Mn _x Fe _{0.95-x} Si Compounds According to Band Calculations and Optical Investigations. <i>Physics of Metals and Metallography</i> , 2021, 122, 472-477.	1.0	0
15	Magnetic Fractions of PM _{2.5} , PM _{2.5-10} , and PM ₁₀ from Coal Fly Ash as Environmental Pollutants. <i>ACS Omega</i> , 2021, 6, 20076-20085.	3.5	6
16	Interparticle magnetic interactions in synthetic ferrihydrite: Mössbauer spectroscopy and magnetometry study of the dynamic and static manifestations. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161623.	5.5	14
17	Magnetic States of Fe ²⁺ Ions in Fe _x Mn _{1-x} S Induced by Chemical Pressure. <i>Physics of the Solid State</i> , 2021, 63, 68-74.	0.6	2
18	Iron Oxide Nanoparticles for Isolating DNA from Blood Cells. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021, 85, 965-969.	0.6	1

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19	Electronic Structure and Spectral Characteristics of the Mn ₃ Al Compound. Physics of Metals and Metallography, 2021, 122, 954-959.	1.0	4
20	Giant anisotropy of magnetic properties of hydrated iron fluoridotitanate single crystal. Journal of Alloys and Compounds, 2021, 898, 162748.	5.5	1
21	Electronic Structure and Optical Spectra of GdFeAl and GdFeSi Compounds. Physics of the Solid State, 2021, 63, 866-871.	0.6	1
22	Optical Spectroscopy of Intermetallic Compounds ScFe ₂ and ErFe ₂ . Physics of the Solid State, 2021, 63, 1176-1180.	0.6	1
23	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
24	Structural and electron transport properties of CaFe ₂ O ₄ synthesized in air and in helium atmosphere. Journal of Alloys and Compounds, 2020, 820, 153073.	5.5	11
25	Optical Properties of YFe ₂ and TbFe ₂ Compounds. Physics of the Solid State, 2020, 62, 1132-1135.	0.6	1
26	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
27	Magnetic Moments, Electronic Structure, and Optical Spectroscopy of Cobalt-Based Intermetallic Compounds YCo ₃ , Y ₂ Co ₇ , and LaCo ₅ . Journal of Experimental and Theoretical Physics, 2020, 131, 600-606.	0.9	0
28	Effect of Calcination Temperature on Activity of Fe ₂ O ₃ –Al ₂ O ₃ Nanocomposite Catalysts in CO Oxidation. Catalysis Letters, 2020, 150, 3377-3385.	2.6	7
29	Characterization of the iron oxide phases formed during the synthesis of core–shell Fe _x O _y @C nanoparticles modified with Ag. Nanotechnology, 2020, 31, 395703.	2.6	9
30	Nuclear forward scattering application to the spiral magnetic structure study in Fe_3O_4 . Physical Review B, 2020, 101, .	3.2	7
31	Electronic Structure and Optical Properties of the FeAl ₂ Compound. Physics of the Solid State, 2020, 62, 106-109.	0.6	1
32	Electronic Structure of the DyFe ₂ Si ₂ Compound: Energy Band Calculations and Optical Studies. Physics of the Solid State, 2020, 62, 414-418.	0.6	1
33	Magnetic Properties of Fe–Cu–Nb–Si–B Spinning Ribbons. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 1126-1130.	0.6	0
34	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
35	Magnetic Properties of Ultrafine γ -Fe ₂ O ₃ Nanoparticles in a Silicon Xerogel Matrix. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 875-877.	0.6	1
36	Ion reduction in iron oxide and oxyhydroxide nanoparticles during ultrasonic treatment. Advanced Powder Technology, 2019, 30, 2620-2625.	4.1	3

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37	Magnetic and structural correlations in the warwickite Mn ₂ OBO ₃ . Low Temperature Physics, 2019, 45, 1046-1052.	0.6	2
38	In Situ FMR Study of the Selective H ₂ S-Oxidation Stability of $\hat{\mu}$ -Fe ₂ O ₃ /SiO ₂ Catalysts. Applied Magnetic Resonance, 2019, 50, 725-733.	1.2	4
39	The Structure of Electronic States in FeSb ₂ According to Optical Spectroscopy and Band Calculations. Physics of the Solid State, 2019, 61, 969-972.	0.6	1
40	Cation Distribution in the Composite Materials of the CaFe ₂ O ₄ - $\hat{\pm}$ -Fe ₂ O ₃ Series. Journal of Structural Chemistry, 2019, 60, 763-771.	1.0	3
41	Features of Optical Absorption Spectra of GdFe ₂ and LuFe ₂ Intermetallic Compounds. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 350-353.	0.6	1
42	Element selective magnetism in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ho} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.5 \langle \text{mml:mtext} \rangle$		

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55	Mössbauer Spectroscopy Study of the Superparamagnetism of Ultrasmall μ -Fe ₂ O ₃ Nanoparticles. JETP Letters, 2018, 108, 527-531.	1.4	21
56	An Ellipsometric Investigation of the Optical Properties of Ru ₂ Ge ₃ and Ru ₂ Sn ₃ Compounds. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2018, 125, 368-371.	0.6	2
57	μ -Fe ₂ O ₃ nanoparticles embedded in silica xerogel "Magnetic metamaterial. Ceramics International, 2018, 44, 17852-17857.	4.8	21
58	The Influence of Copper Impurity on the Electronic Structure and Optical Properties of TmNi ₅ Compound. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2018, 124, 784-788.	0.6	0
59	Bacterial Ferrihydrite Nanoparticles: Preparation, Magnetic Properties, and Application in Medicine. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2297-2304.	1.8	29
60	Electronic Structure of GdCuGe Intermetallic Compound. Physics of the Solid State, 2018, 60, 631-633.	0.6	0
61	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
62	Specific features of the electronic structure and spectral characteristics of the Gd ₅ Si ₃ compound. Physics of the Solid State, 2017, 59, 429-433.	0.6	3
63	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
64	The study of the structure of the electronic states of the FeGa ₃ and RuGa ₃ compounds by optical spectroscopy method. Physics of the Solid State, 2017, 59, 2244-2247.	0.6	6
65	Magnetic properties of Co _{2-2x} Co _{1-x} Fe _x BO ₅ (x = 0.10) single crystals with a ludwigite structure. Journal of Experimental and Theoretical Physics, 2017, 124, 623-627.	0.9	3
66	Effect of Fe-substitution on the structure and magnetism of single crystals Mn _{2-x} Fe _x BO ₄ . Journal of Crystal Growth, 2017, 475, 239-246.	1.5	8
67	Spectral properties of RuAl ₂ and RuGa ₂ compounds: Ellipsometric analysis. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2017, 123, 264-268.	0.6	1
68	Theoretical and experimental investigations on the magnetic and related properties of RAgSn ₂ (R=Ho, Tm). Journal of Experimental and Theoretical Physics, 2017, 123, 378-383.	0.6	6
69	Optical spectroscopy of intermetallic compounds TbNi ₂ Mn _x (x = 0, 0.5, 1). Physics of the Solid State, 2016, 58, 1729-1734.	0.6	0
70	Electronic structure of the TbMn _{0.33} Ge ₂ compound: Band calculation and optical experiment. Physics of the Solid State, 2016, 58, 2373-2378.	0.6	1
71	Electronic structure and optical properties of the HoCoSi and ErNiSi compounds. Journal of Experimental and Theoretical Physics, 2016, 123, 638-642.	0.9	2
72	Electronic structure and spectral properties of RCuSi (R=Nd, Gd) compounds. Physica B: Condensed Matter, 2016, 487, 85-89.	2.7	5

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73	Electronic structure and optical properties of the Pr ₅ Ge ₃ compound. Physics of the Solid State, 2015, 57, 1705-1709.	0.6	1
74	Crystal and local atomic structure of MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ and CoFeBO ₄ : Effects of Co substitution. Physica Status Solidi (B): Basic Research, 2015, 252, 2245-2258.	1.5	7
75	Uniaxial anisotropy and low-temperature antiferromagnetism of Mn ₂ BO ₄ single crystal. Journal of Magnetism and Magnetic Materials, 2015, 393, 316-324.	2.3	16
76	Spin-glass behavior in single crystals of hetero-metallic magnetic warwickites MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ , and CoFeBO ₄ . Journal of Magnetism and Magnetic Materials, 2015, 392, 114-125.	2.3	16
77	Influence of copper impurities on the evolution of the electronic structure and optical spectra of the LuNi ₅ compound. Physics of the Solid State, 2015, 57, 866-870.	0.6	4
78	Optical spectroscopy and electronic structure of TmRhGe compound. Physics of the Solid State, 2015, 57, 2357-2360.	0.6	3
79	Calculation of the electronic structure of the intermetallic compounds ErNi ₅ $\hat{\wedge}$ x Al x (x = 0, 1, 2). Physics of the Solid State, 2015, 57, 1-4.	0.6	3
80	Disorder- and correlation-induced charge carriers localization in oxyborate MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ , CoFeBO ₄ single crystals. Journal of Alloys and Compounds, 2015, 642, 232-237.	5.5	4
81	Spin-glass behavior of warwickite MgFeBO ₄ and CoFeBO ₄ crystals observed by Mössbauer spectroscopy. Journal of Alloys and Compounds, 2015, 642, 204-209.	5.5	11
82	Evolution of the electronic structure and optical spectra of intermetallides DyNi ₅ $\hat{\wedge}$ x Cu x under changes of concentration. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 357-363.	0.6	3
83	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
84	Role of Fe and Co in optical conductivity and electronic structure of TbNi ₄ Fe and TbNi ₄ Co. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 414-418.	0.6	2
85	Effect of copper and cobalt impurities on the electronic structure and optical spectra of the intermetallic compound PrNi ₅ . Physics of the Solid State, 2014, 56, 1933-1938.	0.6	0
86	Influence of structurization of amorphous Fe _{73.5} Si _{13.5} B ₉ Nb ₃ Cu ₁ alloy on its spectral properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 239-243.	0.6	0
87	Optical spectroscopy and electronic structure of the Er ₅ Ge ₃ compound. Physics of the Solid State, 2014, 56, 1737-1741.	0.6	1
88	Evolution of the Mössbauer spectra of ludwigite Co ₃ $\hat{\wedge}$ x Fe x O ₂ BO ₃ with substitution of iron for cobalt. Physics of the Solid State, 2013, 55, 1175-1179.	0.6	5
89	Influence of aluminum impurity on the electronic structure and optical properties of the TbNi ₅ intermetallic compound. Physics of the Solid State, 2013, 55, 385-388.	0.6	7
90	Structure and magnetism of copper-substituted cobalt ludwigite Co ₃ O ₂ BO ₃ . Low Temperature Physics, 2013, 39, 709-713.	0.6	12

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91	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
92	Specific features of the electronic structure and spectral properties of NdNi _{5-x} Cu _x compounds. Physics of the Solid State, 2013, 55, 2191-2195.	0.6	1
93	Optical spectroscopy and electronic structure of compounds HoNi _{5-x} Al _x (x = 0, 1, 2). Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 115, 690-695.	0.6	2
94	Optical absorption and electronic structure of intermetallic compound RuIn ₃ . Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 114, 83-86.	0.6	3
95	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
96	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
97	Spin-glass magnetic ordering in CoMgGaO ₂ BO ₃ ludwigite. Low Temperature Physics, 2012, 38, 172-174.	0.6	21
98	Crystal structure and magnetic properties of Mn substituted ludwigite Co ₃ O ₂ BO ₃ . Journal of Magnetism and Magnetic Materials, 2012, 324, 923-927.	2.3	26
99	Effect of crystallization of amorphous Fe ₅ Co ₇₅ Si ₄ B ₁₆ alloy on its optical properties. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2012, 112, 801-805.	0.6	1
100	Synthesis of the intermetallic compound AuAl ₂ from nanopowders. Inorganic Materials, 2011, 47, 465-470.	0.8	8
101	Optical properties and electronic structure of YNi _{5-x} Cu _x intermetallic compounds. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 111, 808-813.	0.6	1
102	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
103	Effect of plastic deformation on physical properties and structure of the shape memory alloy Ti _{49.5} Ni _{50.5} . Physics of the Solid State, 2011, 53, 1397-1403.	0.6	4
104	Optical properties of Ni ₃ Al _{1-x} Mn _x alloys with various degrees of localization of magnetic moments. Physics of the Solid State, 2011, 53, 2486-2489.	0.6	1
105	The superexchange interactions in mixed Co ²⁺ /Fe ludwigite. Journal of Magnetism and Magnetic Materials, 2011, 323, 521-527.	2.3	28
106	Uniaxial magnetic anisotropy in Co ₂ FeO ₂ BO ₃ . Journal of Experimental and Theoretical Physics, 2011, 113, 1015-1024.	3.2	36
107	Effect of alloying with iron on the electronic properties and structure of the Cu ₃ Pd alloy. Physics of Metals and Metallography, 2010, 109, 337-346.	1.0	3
108	Effect of severe plastic deformation on the electronic properties of the Cu ₇₂ Au ₂₄ Ag ₄ alloy. Physics of the Solid State, 2010, 52, 12-17.	0.6	2

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109	Effect of severe plastic deformation on the properties of the Pt ₃ Fe antiferromagnet. Physics of the Solid State, 2010, 52, 317-322.	0.6	3
110	Effect of change in structural and magnetic states of Pt _{74.1} Fe _{25.9} alloy on its optical properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 347-351.	0.6	0
111	10.1007/s11449-008-3008-3. , 2010, 104, 360.		0
112	Conductivity Study of Co ₃ O ₂ BO ₃ and Co _{3-x} Fe _x O ₂ BO ₃ Oxyborates. Solid State Phenomena, 2009, 152-153, 104-107.	0.3	10
113	Evolution of the optical properties of DyNi ₅ - 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
114	Dependence of the optical properties of Fe ₇₈ Si ₁₀ B ₁₂ amorphous alloy on its structural state. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 107, 708-712.	0.6	1
115	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
116	Effect of severe plastic deformation and ultrarapid quenching on the properties of magnetic shape memory alloys near the Ni ₂ MnGa composition. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 948-951.	0.6	3
117	Optical absorption and structure of energy bands of GdNi ₅ - x Cu x intermetallic compounds. Physics of Metals and Metallography, 2009, 107, 173-178.	1.0	9
118	Effect of plastic deformation on the electronic properties of the Cu ₆₀ Pd ₄₀ alloy. Physics of the Solid State, 2009, 51, 234-240.	0.6	1
119	Specific features of the behavior of the optical properties of TbNi ₅ - x Cu x intermetallic compounds. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 360-365.	0.6	8
120	Optical properties of RNi ₅ intermetallic compounds (R = Y, La, Ce). Optics and Spectroscopy (English) Tj ETQqO 0 0 rgBT /Overlock 10 T	0.6	3
121	Electronic properties and crystal structure of orderable Cu ₃ Pd alloy. Physics of Metals and Metallography, 2007, 103, 370-377.	1.0	4
122	Electronic structure of the intermetallic compounds Ce ₂ Fe ₁₇ and Ce ₂ Fe _{15.3} M _{1.7} (M = Al, Si): Experiment and theory. Physics of the Solid State, 2007, 49, 99-106.	0.6	5
123	Electronic properties of strain-disordered Ni _{2.16} Mn _{0.84} Ga alloy. Physics of the Solid State, 2007, 49, 1773-1779.	0.6	6
124	Effect of atomic disordering and iron admixture on the structure and properties of the Cu ₃ Pd alloy. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 625-627.	0.6	1
125	Features of properties of microinhomogeneous PdMn - x Fe ₁ - x alloys. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 1066-1068.	0.6	1
126	Electronic structure, magnetic, and optical properties of the intermetallic compounds R ₂ Fe ₁₇ (R=Pr,Gd). Physical Review B, 2006, 73, .	3.2	29

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127	Low-frequency optical conductivity of inhomogeneous alloys. Physics of the Solid State, 2006, 48, 409-412.	0.6	0
128	The Nature of Coloration of the PdM and Pd ₃ M Compounds (M = Sc, Gd, Tb, Lu). Journal of Applied Spectroscopy, 2003, 70, 104-108.	0.7	0
129	Geometric resonance in the optical properties of microinhomogeneous PdM _x Fe _{1-x} alloys. Physics of the Solid State, 2003, 45, 895-898.	0.6	3
130	Analysis of dispersion of long-wavelength optical phonons in zinc with the help of light scattering. Physics of the Solid State, 2001, 43, 1801-1806.	0.6	9