

Anatoly G Kuchin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Remarkable increase of Curie temperature in doped GdFeSi compound. Intermetallics, 2021, 133, 107183.	3.9	8
2	Magnetic and magnetothermal properties of the GdTi _{0.05} Fe _{0.95} -Mn Si canted ferrimagnets. Intermetallics, 2021, 137, 107304.	3.9	0
3	Non-monotonic variation of Curie temperature in (Tm Pr _{1-x}) ₂ Fe _{16.5} Cr _{0.5} . Journal of Alloys and Compounds, 2019, 791, 225-231.	5.5	2
4	Magnetic and Structural Properties of GdFe _{1-x} Ti _x Si. IEEE Magnetics Letters, 2019, 10, 1-4.	1.1	6
5	Unusual weak increase of Curie temperature and lattice parameters in Pr ₂ Fe _{16.5} Zr _{0.5} . Journal of Physics: Conference Series, 2019, 1389, 012129.	0.4	1
6	Effect of Chromium Substitution for Iron on the Magnetic and Structural Properties of (Tm _x Pr _{1-x}) ₂ Fe ₁₇ . Journal of Magnetism and Magnetic Materials, 2018, 460, 188-192.	1.0	0
7	Unusual stability of ground ferrimagnetic state in Tm ₂ Fe ₁₇ under pressure. Journal of Magnetism and Magnetic Materials, 2018, 460, 188-192.	2.3	1
8	Magnetic properties of Tm ₂ Fe ₁₆ under pressure. EPJ Web of Conferences, 2018, 185, 04018.	0.3	0
9	Inhomogeneous Magnetic State of Tm ₂ Fe ₁₇ Evidenced by Mössbauer Spectroscopy. Physics of the Solid State, 2018, 60, 1718-1726.	0.6	2
10	Mössbauer study of Tm ₂ Fe ₁₇ compound in different magnetic states. Physica B: Condensed Matter, 2018, 545, 190-196.	2.7	0
11	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
12	Competing anisotropy in the (Tm _x Pr _{1-x}) ₂ Fe ₁₇ system. EPJ Web of Conferences, 2018, 185, 04023.	0.3	0
13	Influence of microdeformations on magnetic phase transitions in the (Tm Pr _{1-x}) ₂ Fe ₁₇ system. Journal of Alloys and Compounds, 2017, 726, 330-337.	5.5	4
14	Effect of manganese doping on the electronic structure and optical properties of Ce ₂ Fe _{17-x} Mn _x (x =) Journal of Magnetism and Magnetic Materials, 2017, 357, 1-4.	1.5	3
15	Non-Monotonic Variation of Magnetocaloric Effect in the Tm ₂ (Fe,Mn) ₁₇ and Tm ₂ Fe ₁₆ -Tm ₂ Fe ₁₉ Systems. Materials Science Forum, 2016, 845, 13-16.	0.3	0
16	Magnetic properties of the Tm ₂ Fe _{17-x} Mn _x single-crystals. Journal of Magnetism and Magnetic Materials, 2016, 410, 1-4.	2.3	0
17	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
18	Evolution of the electronic structure and optical spectra of intermetallides DyNi _{5-x} Cu _x under changes of concentration. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2015, 118, 357-363.	0.6	3

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19	Magnetic phase transitions in $Y_{1-x}Tb_xMn_6Sn_6$, $La_{1-x}Sm_xMn_2Si_2$, $Lu_2(Fe_{1-x}Ni_x)_{17}$, and $La(Fe_{1-x}Tj)_{10}Ti_2O_{21}$. <i>Physica B: Condensed Matter</i> , 2014, 407, 383, 196-202.	2.3	2
20	Effect of copper and cobalt impurities on the electronic structure and optical spectra of the intermetallic compound $PrNi_5$. <i>Physics of the Solid State</i> , 2014, 56, 1933-1938.	0.6	0
21	Magnetism and structure of near-stoichiometric Tm_2Fe_{17+x} compounds. <i>Journal of Alloys and Compounds</i> , 2014, 599, 26-31.	5.5	11
22	Cobalt-related features of spectral and magnetic properties of RNi_4Co ($R=Ho, Er$). <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 87-90.	2.3	10
23	Magnetic Phase Diagrams of $Tm_{2-x}Fe_{19-x}Mn_x$ and Tm_2Fe_{17+x} Systems. <i>Solid State Phenomena</i> , 2014, 215, 123-126.	0.3	3
24	Influence of aluminum impurity on the electronic structure and optical properties of the $TbNi_5$ intermetallic compound. <i>Physics of the Solid State</i> , 2013, 55, 385-388.	0.6	7
25	Specific features of the electronic structure and spectral properties of $NdNi_5-xCu_x$ compounds. <i>Physics of the Solid State</i> , 2013, 55, 2191-2195.	0.6	1
26	Optical spectroscopy and electronic structure of compounds $HoNi_5-xAl_x$ ($x = 0, 1, 2$). <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 115, 690-695.	0.6	2
27	Predictable magnetocaloric effect in the $Ce_2Fe_{17-x}Mn_xHy$ hydrides. <i>Journal of Alloys and Compounds</i> , 2013, 563, 130-134.	5.5	10
28	XAFS and XRD studies of local structure peculiarities in magnetic $R_2Fe_{17-x}Mn_x$ ($R = Ce, Lu$) intermetallics. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012104.	0.4	0
29	Instability of the ferromagnetic ground state in $Lu_2Fe_{17-x}Mn_x$ [$x=0.5, 0.7$]. <i>Journal of Applied Physics</i> , 2012, 111, 07E310.	2.5	3
30	Magnetic and structural properties of the $Ce_2Fe_{17-x}Mn_xHy$ ($x=0, 0.35, 0.5$) hydrides. <i>Journal of Alloys and Compounds</i> , 2012, 542, 222-227.	5.5	3
31	Electronic structure and optical properties of $TbNi_5-xCu_x$. <i>Physica B: Condensed Matter</i> , 2012, 407, 3600-3603.	2.7	7
32	Electronic structure and optical spectroscopy studies of $HoNi_5$ and $ErNi_5$ compounds doped with Cu. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 824-828.	1.5	21
33	Effect of pressure on the magnetic properties of YNi_5 , $LaNi_5$, and $CeNi_5$. <i>Low Temperature Physics</i> , 2011, 37, 138-143.	0.6	11
34	Effect of Cu-doping on the electronic structure and optical properties of $LaNi_5$. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5238-5241.	5.5	13
35	Magnetocaloric effect in the $Ce_2Fe_{17-x}Mn_x$ helical magnets. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6763-6767.	5.5	9
36	Optical properties of $CeNi_5$ and $CeNi_4M$ ($M=Al, Cu$) compounds. <i>Journal of Alloys and Compounds</i> , 2011, 509, 557-559.	5.5	6

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37	Correlation of magnetic properties with the local features of the electronic and crystal structure in the Ce ₂ Fe ₁₇ x Mn x intermetallide: XAFS data analysis. JETP Letters, 2011, 94, 187-191.	1.4	7
38	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
39	Magnetic structure of Ce ₂ Fe ₁₇ x Mn x intermetallic compounds. Physics of the Solid State, 2010, 52, 922-926.	0.6	7
40	Magnetic properties of the Lu ₂ Fe ₁₇ x Mn x single crystals. Journal of Magnetism and Magnetic Materials, 2010, 322, 2215-2218.	2.3	8
41	Enhancement of the magnetocaloric effect in the system. Solid State Communications, 2010, 150, 1580-1583.	1.9	14
42	Ce valence in intermetallic compounds by means of XANES spectroscopy. Zeitschrift für Kristallographie, 2010, 225, .	1.1	12
43	Optical Properties and Electronic Structure of LaNi _{5-x} Cu _x (x=0-1.2) Intermetallic System. Solid State Phenomena, 2010, 168-169, 529-532.	0.3	2
44	Tb _x Er _{1-x} Ni ₅ compounds: An ideal model system for competing Ising-XY anisotropy energies. Physical Review B, 2009, 79, .	3.2	21
45	Magnetic and structural properties of Lu ₂ (Fe,Mn) ₁₇ H _y hydrides. Journal of Physics Condensed Matter, 2009, 21, 306002.	1.8	3
46	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
47	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
48	Magnetic and structural properties of the Lu ₂ Fe ₁₇ H _y hydrides. Journal of Alloys and Compounds, 2009, 480, 23-24.	5.5	2
49	Ferromagnetism strengthening in the Lu ₂ Fe ₁₇ x Mn x system. Solid State Communications, 2008, 146, 446-449.	1.9	16
50	Magnetism of the intermetallic compound Ce ₂ Fe ₁₇ in the crystalline and amorphous states. Physics of Metals and Metallography, 2008, 106, 566-576.	1.0	2
51	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
52	Sm ₂ Fe ₁₇ and Tm ₂ Fe ₁₇ : electronic structure, magnetic and optical properties. Journal of Physics Condensed Matter, 2007, 19, 116215.	1.8	17
53	Optical properties of RNi ₅ intermetallic compounds (R = Y, La, Ce). Optics and Spectroscopy (English) Tj ETQq1 1 0,784314 rgBT / Overl	0.6	3
54	Magnetic properties of the Ce ₂ Fe ₁₇ x Mn x helical magnets up to high magnetic fields. Journal of Magnetism and Magnetic Materials, 2007, 313, 1-7.	2.3	12

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55	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. <i>Physics of the Solid State</i> , 2007, 49, 99-106.	0.6	5
56	Influence of lattice volume on magnetic states of Ce ₂ Fe ₁₆ MnDy compounds (y=0,1,2,3). <i>Journal of Applied Physics</i> , 2006, 100, 013903.	2.5	10
57	Electronic structure, magnetic, and optical properties of the intermetallic compounds R ₂ Fe ₁₇ (R=Pr,Gd). <i>Physical Review B</i> , 2006, 73, .	3.2	29
58	Electronic structure and magnetic properties of RNi ₅ ~xCu _x alloys (R=Y, La, Ce). <i>Low Temperature Physics</i> , 2006, 32, 1140-1146.	0.6	11
59	Magnetic properties of RNi ₅ ~xCu _x intermetallics. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 303, 119-126.	2.3	35
60	Crystal and magnetic structure investigation of TbNi ₅ ~xCu _x (x=0,0.5,1.0,1.5,2.0): Experiment and theory. <i>Physical Review B</i> , 2006, 74, .	3.2	22
61	The system PrNi ₅ ~xCu _x with two lowest singlet states. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 932-934.	2.7	0
62	Praseodymium Valence State in PrFe ₁₀ Mo ₂ , PrNi ₅ , and PrNi ₄ M Intermetallic Compounds (M = Cu, Al, Ga). <i>Physics of the Solid State</i> , 2005, 47, 424.	0.6	2
63	Magnetic states in the Ce ₂ Fe ₁₇ ~xMnxHy hydrides. <i>Journal of Alloys and Compounds</i> , 2005, 392, 44-49.	5.5	11
64	Magnetic phase diagrams of Ce ₂ Fe ₁₇ ~xMnx~H system: A magnetization study. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 155-159.	5.5	9
65	Helimagnetic order in the re-entrant ferromagnet Ce ₂ Fe _{15.3} Mn _{1.7} . <i>Journal of Applied Physics</i> , 2005, 97, 113909.	2.5	18
66	The influence of high pressure on the structural and magnetic properties of Y ₂ Fe ₁₇ ~xM _x (M=Si, Al); Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	2
67	Real crystal structure and magnetic state of Ce ₂ Fe ₁₇ compounds. <i>Physica B: Condensed Matter</i> , 2004, 350, E99-E102.	2.7	14
68	Magnetism of the singlet-singlet system PrNi ₅ ~xCu _x . <i>Journal of Alloys and Compounds</i> , 2004, 368, 75-78.	5.5	4
69	Change of magnetic state in a Ce ₂ Fe ₁₆ Mn single crystal upon hydrogenation. <i>Journal of Alloys and Compounds</i> , 2004, 365, 80-83.	5.5	9
70	Neutron diffraction study of Lu ₂ Fe ₁₇ under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 564-566.	2.3	28
71	Neutron diffraction studies of the magnetic phase transitions in Ce ₂ Fe ₁₇ compound under pressure. <i>Journal of Applied Physics</i> , 2002, 92, 385-391.	2.5	51
72	Mechanisms controlling magnetic properties of pseudobinary compounds TbNi ₅ ~xM _x (M=Cu or Al). <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 238, 29-37.	2.3	23

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73	Metamagnetic behaviour and phase diagram of Lu ₂ Fe ₁₇ under high pressure. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 876-878.	2.3	28
74	Magnetic field induced phase transition in Ce ₂ Fe _{17-x} Mn _x compounds. Applied Physics A: Materials Science and Processing, 2002, 74, s577-s579.	2.3	11
75	Effect of pressure and Mn substitution on magnetic ordering of Ce ₂ Fe _{17-x} Mn _x (x=0,1). Applied Physics A: Materials Science and Processing, 2002, 74, s610-s612.	2.3	16
76	Real disordered crystal structure and Curie temperature of intermetallic compounds Y ₂ Fe ₁₇ ~xM _x (M=Si or Al). Journal of Alloys and Compounds, 2001, 315, 82-89.	5.5	15
77	Optical conductivity and magnetic parameters of the intermetallic compounds R ₂ Fe ₁₇ ~xM _x (R=Y, Ce). Tj ETQq1 1,0,784314,rgBT /Ove	5.5	13
78	Magnetovolume anomalies in Ce ₂ Fe ₁₇ ~xM _n x. Low Temperature Physics, 2001, 27, 275-277.	0.6	7
79	Concentration dependence of the density of states in the Pauli paramagnets YNi ₅ ~xCu _x . Low Temperature Physics, 2001, 27, 662-665.	0.6	3
80	Pressure-induced ferromagnetic phase in Ce ₂ Fe ₁₆ Mn ₁ compound. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 950-952.	2.3	8
81	The localization of magnetic moment in PrNi ₄ Cu ferromagnet. Physica B: Condensed Matter, 2000, 276-278, 580-581.	2.7	5
82	A study of the real structure of intermetallic compounds R ₂ Fe ₁₇ (R=Ce,Lu) using neutron powder diffraction, NMR and NGR methods. Physica B: Condensed Matter, 2000, 276-278, 570-571.	2.7	4
83	Magnetic and structural properties of Y ₂ Fe ₁₅ ~3Si ₁ ~7alloy under high pressure. High Pressure Research, 2000, 17, 193-200.	1.2	2
84	Magnetic and structural properties of Ce ₂ Fe ₁₇ ~xM _n x compounds. Journal of Alloys and Compounds, 2000, 313, 7-12.	5.5	41
85	HEAT CAPACITY AND SURFACE RESISTANCE OF YNi(5~X)CuX. , 2000, , .		0
86	High pressure effect on magnetic properties and volume anomalies of Ce ₂ Fe ₁₇ . Journal of Applied Physics, 1999, 86, 6295-6300.	2.5	33
87	Magnetovolume properties of Y ₂ Fe ₁₇ ~xM _x alloys (M=Si or Al). Journal of Alloys and Compounds, 1999, 289, 18-23.	5.5	22
88	Original magnetic behaviour observed in RNi ₅ ~xCu _x alloys (R = Pr, Gd or Y). Journal of Magnetism and Magnetic Materials, 1996, 159, L309-L312.	2.3	30
89	Electronic, Magnetic, and Structural Properties of the Alloys Y ₂ (Fe ₁₇ ~xM _x) ₁₇ , where M = Al and Si. Physica Status Solidi A, 1996, 155, 479-483.	1.7	14
90	Effect of random local crystal fields on the magnetic properties of rare-earth RNi ₅ ~xCu _x compounds. Physica Status Solidi (B): Basic Research, 1996, 197, 447-451.	1.5	7

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91	Role of Electronic Band Structure and Lattice Parameters in Magnetism of the $R_2(Fe,M)_{17}\delta\epsilon = Si, Al$ Compounds. Solid State Phenomena, 0, 152-153, 41-44.	0.3	0
92	Magnetic Anisotropy of Helical and Collinear Magnets $R_2Fe_{17}X_2Mn_x$. Solid State Phenomena, 0, 168-169, 192-195.	0.3	1
93	Interplay between Local Electronic Structure, Crystalline Structure and Magnetic Ordering in Intermetallic Compounds $Ce_2Fe_{17}xMn_x$. Solid State Phenomena, 0, 190, 251-254.	0.3	1