Alexey Lukoyanov

List of Publications by Year in Descending Order

164 papers	1,533 citations	19 h-index	34 g-index
174 ext. papers	1,688 ext. citations	2.2 avg, IF	4.58 L-index

#	Paper	IF	Citations
164	Site-selective spin transition in LuCo3. *Journal of Physics and Chemistry of Solids*, **2022**, 163, 110552	3.9	0
163	Vacancy ordered phases of nonstoichiometric hafnium carbide from evolutionary crystal structure predictions. *Journal of Alloys and Compounds*, **2022**, 891, 162063	5.7	0
162	Spectral characteristics and electronic structure of semimetallic ScSb and YSb. *Optical Materials*, **2022**, 129, 112466	3.3	
161	Evidence for canonical spin glass behaviour in polycrystalline Mn1.5Fe1.5Al Heusler alloy. *Journal of Magnetism and Magnetic Materials*, **2021**, 168752	2.8	1
160	Electronic Structure and Optical Properties of Heusler Alloy Mn1.5Fe1.5Al. *Journal of Experimental and Theoretical Physics*, **2021**, 133, 471-476	1	1
159	Electronic Structure and Spectral Characteristics of the Mn3Al Compound. *Physics of Metals and Metallography*, **2021**, 122, 954-959	1.2	0
158	Effect of Electronic Correlations on the Electronic Structures of the FeAlO3 and FeSiO3 Compounds. *Journal of Experimental and Theoretical Physics*, **2021**, 132, 548-555	1	0
157	Evolution of Electronic Structure of GdTi0.05MnxFe0.95−xSi Compounds According to Band Calculations and Optical Investigations. *Physics of Metals and Metallography*, **2021**, 122, 472-477	1.2	
156	Remarkable increase of Curie temperature in doped GdFeSi compound. *Intermetallics*, **2021**, 133, 107183	3.5	5
155	Ab initio computational study of the electronic and magnetic properties of the HoNiZ compounds accounting for electronic correlations. *Journal of Physics: Conference Series*, **2021**, 1740, 012032	0.3	
154	Electronic properties and electronic structure of Co2YSi (Y = Ti, V, Cr, Mn, Fe) Heusler alloys. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
153	Non-collinear antiferromagnetism to compensated ferrimagnetism in Ti(FeCo) (= 0, 0.5 and 1) alloys: experiment and theory. *Physical Chemistry Chemical Physics*, **2021**, 23, 5607-5614	3.6	0
152	Optical Properties of Heusler Alloy Mn2FeAl with the β-Mn Structure. *Physics of Metals and Metallography*, **2021**, 122, 737-741	1.2	
151	Composition-Induced Magnetic Transition in GdMn1-xTixSi Intermetallic Compounds for x = 0–1. *Metals*, **2021**, 11, 1296	2.3	1
150	Magnetic properties and electronic structure of Mn-Al alloys in the β-Mn structure. *Journal of Magnetism and Magnetic Materials*, **2021**, 168600	2.8	
149	Field induced metamagnetism and large magnetic entropy change in RRhSi (R = Tb, Dy, Ho) rare earth intermetallics. *Journal of Alloys and Compounds*, **2021**, 888, 161493	5.7	1
148	Induced by the pressure and the spin fluctuations the phase transitions in chiral itinerant ferromagnetics (for example MnSi). *Journal of Magnetism and Magnetic Materials*, **2021**, 539, 168282	2.8	

147	Electronic Structure and Optical Spectra of GdFeAl and GdFeSi Compounds. *Physics of the Solid State*, **2021**, 63, 866-871	0.8	0
146	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	1	
145	Electronic Structure and Optical Properties of the FeAl2 Compound. *Physics of the Solid State*, **2020**, 62, 106-109	0.8	
144	Itinerant metamagnetic transition in the ferromagnet LuCo3 induced by high field: Instability of the 3d-electron subsystem. *Physical Review B*, **2020**, 101,	3.3	4
143	Structural stability and magnetic properties of Mn2FeAl alloy with a □Mn structure. *Journal of Magnetism and Magnetic Materials*, **2020**, 513, 167205	2.8	8
142	Electronic Structure of the DyFe2Si2 Compound: Energy Band Calculations and Optical Studies. *Physics of the Solid State*, **2020**, 62, 414-418	0.8	
141	Disorder-order and order-order phase transformations in TaC phases predicted using the evolutionary algorithm and symmetry analysis. *Physical Chemistry Chemical Physics*, **2020**, 22, 24116-24132	3.6	4
140	Electronic and Optical Properties of RCuGe Compounds (R = Dy, Ho). *Bulletin of the Russian Academy of Sciences: Physics*, **2020**, 84, 1152-1155	0.4	
139	Electronic States and Optical Spectra of ErSn1.1Ge0.9 and TmSn1.1Ge0.9 Compounds. *Physics of Metals and Metallography*, **2020**, 121, 537-542	1.2	1
138	Electronic Structure and Optical Properties of the Mn2CrAl Heusler Alloy. *Physics of Metals and Metallography*, **2020**, 121, 532-536	1.2	2
137	Effect of Electronic Correlations on the Electronic Structure, Magnetic and Optical Properties of the Ternary RCuGe Compounds with R = Tb, Dy, Ho, Er. *Materials*, **2020**, 13,	3.5	1
136	Electronic Structure and Electronic Properties of PtSn4 Single Crystal. *Journal of Experimental and Theoretical Physics*, **2019**, 128, 939-945	1	4
135	Electronic Structure and Optical Properties of the Co2NiAl Heusler Alloy. *Physics of Metals and Metallography*, **2019**, 120, 729-732	1.2	0
134	Spontaneous and induced magnetic phase transitions in Tb0.9Er0.1Ni5. *Journal of Magnetism and Magnetic Materials*, **2019**, 475, 593-601	2.8	
133	The Structure of Electronic States in FeSb2 According to Optical Spectroscopy and Band Calculations. *Physics of the Solid State*, **2019**, 61, 969-972	0.8	0
132	A wide energy range ab initio modeling of the electronic structure of valence states in Cu(In,Ga)Se2: Comparison with photoelectron spectra. *Journal of Alloys and Compounds*, **2019**, 802, 19-24	5.7	1
131	Electronic structure of DyRhSn and HoRhSn compounds: band calculations and optical study. *European Physical Journal B*, **2019**, 92, 1	1.2	2
130	Impression of magnetic clusters, critical behavior and magnetocaloric effect in FeAl alloys. *Physical Chemistry Chemical Physics*, **2019**, 21, 10823-10833	3.6	15

129	Structural, Electronic, Optical, and Magnetic Properties of Fe3Al Alloys. *Journal of Superconductivity and Novel Magnetism*, **2019**, 32, 2995-3000	1.5	4
128	Magnetism and electronic structure of Gd5Ge2Sb: Experiment and theory. *Journal of Alloys and Compounds*, **2019**, 806, 575-579	5.7	1
127	Electronic Structure, Optical, and Magnetic Properties of Mn100−xGex (x = 20, 25, and 30) Alloys Near Tetragonal–Orthorhombic Structural Phase Transition. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900155	1.3	
126	Electronic Structure of Intermetallic Antiferromagnet GdNiGe. *Symmetry*, **2019**, 11, 737	2.7	3
125	Magnetism of 3d and 4d doped MnTNiGe (T = Fe, Co, Ru and Rh): bulk magnetization and ab initio calculations. *Journal of Physics Condensed Matter*, **2019**, 31, 495804	1.8	
124	Vacancy ordered structures in a nonstoichiometric niobium carbide NbC0.83. *Mendeleev Communications*, **2019**, 29, 707-709	1.9	6
123	Electronic properties of WTe2 and MoTe2 single crystals. *Journal of Physics: Conference Series*, **2019** , 1389, 012149	0.3	2
122	Ordering Sequence in Strongly Nonstoichiometric Niobium Carbide with the Formation of Nb6C5-Type Superstructures. *Journal of Experimental and Theoretical Physics*, **2019**, 129, 863-876	1	8
121	Revelation of spin glass behavior in Ru doped MnNiGe: experiment and theory. *Journal of Physics Condensed Matter*, **2019**, 31, 125803	1.8	1
120	Features of Electronic Structure of Intermetallic Compounds CeNi4M (M = Fe, Co, Ni, Cu). *Physics of the Solid State*, **2018**, 60, 466-469	0.8	
119	Electronic and Spectral Properties of RRhSn (R = Gd, Tb) Intermetallic Compounds. *Physics of the Solid State*, **2018**, 60, 225-229	0.8	3
118	Characterization of d and f Electronic States in RSn1.1Ge0.9 (R = Gd, Tb) Compounds by Optical Spectroscopy and Electronic-Structure Calculations. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1700579	1.3	2
117	Anisotropy of the Complex Permittivity of the Kagome-Staircase Compounds Co3V2O8 and Ni3V2O8: Experiment and Ab Initio Calculations. *Journal of Experimental and Theoretical Physics*, **2018**, 126, 779-783	1	1
116	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	0.7	
115	Effect of the Structural Disorder and Short-Range Order on the Electronic Structure and Magnetic Properties of the Fe2VAl Heusler Alloy. *JETP Letters*, **2018**, 107, 126-128	1.2	10
114	Electronic Structure of GdCuGe Intermetallic Compound. *Physics of the Solid State*, **2018**, 60, 631-633	0.8	
113	Electronic structure and optical properties of GdNi2Mnx compounds. *Low Temperature Physics*, **2018**, 44, 157-161	0.7	
112	Magnetically driven phase transitions with a large volume collapse in MnSe under pressure: A DFT+DMFT study. *Physical Review B*, **2018**, 98,	3.3	2

111	Magnetization, resistivity, specific heat and ab initio calculations of GdSb. *Journal of Physics Condensed Matter*, **2018**, 30, 295802	1.8	2
110	Crystal and Electronic Structure of High-Temperature Superconductive Layered Cuprates in Temperature Interval 100300 K. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 1999-2002	1.5	0
109	A Role of the 3d Electron Subsystem in the Evolution of Band Structure and Magnetic and Optical Properties of ErNi5 xCox Compounds (x = 04). *Physics of the Solid State*, **2018**, 60, 2363-2369	0.8	
108	Electronic Structure and Magnetic Properties of Strongly Correlated Transition Metal Compounds. *Physics of Metals and Metallography*, **2018**, 119, 1254-1258	1.2	2
107	The Structure of Electronic States and Optical Properties of Cr80Al20 Compound. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 125, 195-198	0.7	
106	Electron Structure and Optical Properties of the Mn1.8Co1.2Al Alloy and Spin Gapless Semiconductor State. *Physics of Metals and Metallography*, **2018**, 119, 1068-1072	1.2	8
105	Electronic Structure and Exchange Interactions in RNi4Co (R = Eu, Yb) Compounds. *Physics of the Solid State*, **2018**, 60, 1682-1685	0.8	
104	Electronic structure and optical spectroscopy of the GdRhGe compound. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2017**, 122, 574-579	0.7	
103	Specific features of the electronic structure and spectral characteristics of the Gd5Si3 compound. *Physics of the Solid State*, **2017**, 59, 429-433	0.8	3
102	Correlational short-range order in superstructures. *Mendeleev Communications*, **2017**, 27, 147-149	1.9	6
101	Features of electronic properties of band ferromagnets Co2MeAl and Fe2MeAl (Me = Ti, V, Cr, Mn, Fe, Ni). *Materials Research Express*, **2017**, 4, 116102	1.7	8
100	Optical properties and the electronic structure of Co2TiGe and Co2TiSn Heusler alloys. *Physics of Metals and Metallography*, **2017**, 118, 965-969	1.2	8
99	Ab initio simulation of the electron structure and optical spectroscopy of ErRhGe compound. *Physics of the Solid State*, **2017**, 59, 1275-1278	0.8	
98	Effect of manganese doping on the electronic structure and optical properties of Ce2Fe17-x Mn x (x = 0, 1, 2). *European Physical Journal B*, **2017**, 90, 1	1.2	2
97	Electronic structure of RSn 1.1 Ge 0.9 (R = Dy, Ho) ternary compounds: Band calculation and optical properties. *Physica B: Condensed Matter*, **2017**, 521, 98-101	2.8	2
96	Raman scattering by electron and phonon excitations in FeSi. *JETP Letters*, **2016**, 103, 316-320	1.2	2
95	Two successive spin transitions in a wide range of pressure and coexistence of high- and low-spin states in clinoferrosilite FeSiO3. *Physical Review B*, **2016**, 93,	3.3	7
94	Electronic structure of nitrides PuN and UN. *Journal of Experimental and Theoretical Physics*, **2016**, 123, 864-868	1	2

93	Electronic structure of the TbMn0.33Ge2 compound: Band calculation and optical experiment. *Physics of the Solid State*, **2016**, 58, 2373-2378	0.8	1
92	Electronic structure and optical properties of the HoCoSi and ErNiSi compounds. *Journal of Experimental and Theoretical Physics*, **2016**, 123, 638-642	1	1
91	Electronic structure of Gd-doped MgO. *Journal of Experimental and Theoretical Physics*, **2016**, 122, 338-340		
90	Magnetism, electronic structure and optical properties of TbNiGe2. *Journal of Alloys and Compounds*, **2016**, 664, 120-124	5.7	9
89	Optical properties and electronic structure of alloys Co2Cr1− Fe x Al (x = 0, 0.4, 0.6, 1.0). *Physics of the Solid State*, **2016**, 58, 164-169	0.8	9
88	Crystal and electronic structure of high temperature superconducting compound Y 1− Ca x Ba 2 Cu 3 O y in the temperature interval 80–300 K. *Journal of Alloys and Compounds*, **2016**, 658, 891-897	5.7	5
87	Electronic structure and spectral properties of RCuSi (R=Nd,Gd) compounds. *Physica B: Condensed Matter*, **2016**, 487, 85-89	2.8	3
86	Electronic structure of the NpMT 5 (M = Fe, Co, Ni; T = Ga, In) series of neptunium compounds. *Physics of the Solid State*, **2016**, 58, 438-443	0.8	1
85	Theoretical and experimental investigations on the magnetic and related properties of RAgSn2 (R=Ho, Er) compounds. *Journal of Materials Science*, **2016**, 51, 6341-6347	4.3	6
84	Low-temperature heat capacity upon the transition from paramagnetic to ferromagnetic Heusler alloys Fe2 MeAl (Me = Ti, V, Cr, Mn, Fe, Co, Ni). *Physics of the Solid State*, **2016**, 58, 1500-1504	0.8	3
83	Evolution of the electronic structure and optical spectra of intermetallides DyNi5 −x Cu x under changes of concentration. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2015**, 118, 357-363	0.7	3
82	Short-range order in disordered transition metal oxides, carbides, and nitrides with the B1 structure. *Physics of the Solid State*, **2015**, 57, 637-651	0.8	4
81	Experimental and theoretical investigations on magnetic and related properties of ErRuSi. *Materials Research Express*, **2015**, 2, 046101	1.7	5
80	A comparative study of the optical properties of TbRhGe and DyRhGe. *Solid State Sciences*, **2015**, 44, 22-26	3.4	7
79	Understanding the magnetic, electronic and optical properties of ternary rare earth intermetallic compound HoNiSi. *Journal of Alloys and Compounds*, **2015**, 650, 542-546	5.7	7
78	Pressure-driven metal-insulator transition in BiFeO3 from dynamical mean-field theory. *Physical Review B*, **2015**, 92,	3.3	19
77	Electronic structure and optical properties of the Pr5Ge3 compound. *Physics of the Solid State*, **2015** , 57, 1705-1709	0.8	1
76	Inclusion of the correlation short-range order in Ab initio calculations of the energy of the ground state by example of titanium monoxide TiO1.0. *JETP Letters*, **2015**, 102, 85-90	1.2	17

75	Copper-doping effects in electronic structure and spectral properties of SmNi5. *Low Temperature Physics*, **2015**, 41, 1024-1028	0.7	2
74	Effect of complex magnetic structure on the magnetocaloric and magneto-transport properties in GdCuSi. *Journal of Materials Science*, **2015**, 50, 5723-5728	4.3	25
73	Magnetism in RRhGe (R=Tb, Dy, Er, Tm): An experimental and theoretical study. *Journal of Alloys and Compounds*, **2015**, 640, 56-63	5.7	18
72	Electronic structure of the PuCoIn5 compound. *JETP Letters*, **2015**, 101, 402-406	1.2	1
71	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	0.8	4
70	Optical spectroscopy and electronic structure of TmRhGe compound. *Physics of the Solid State*, **2015**, 57, 2357-2360	0.8	2
69	Calculation of the electronic structure of the intermetallic compounds ErNi5 □x Al x (x = 0, 1, 2). *Physics of the Solid State*, **2015**, 57, 1-4	0.8	3
68	Ab initio study on the rare-earth iron-pnictides RFeAsO (R = Pr, Nd, Sm, Gd) in the low-temperature Cmma phase. *Journal of Physics Condensed Matter*, **2014**, 26, 045501	1.8	
67	Pressure-induced modification of the electron structure of metallic thorium. *Journal of Experimental and Theoretical Physics*, **2014**, 118, 148-152	1	4
66	Optical spectroscopy and electronic structure of the Er5Ge3 compound. *Physics of the Solid State*, **2014**, 56, 1737-1741	0.8	1
65	Electronic structure and magnetic susceptibility of monoclinic □plutonium. *JETP Letters*, **2014**, 99, 656-660	1.2	2
64	The magnetic, electronic and optical properties of HoRhGe. *Journal Physics D: Applied Physics*, **2014**, 47, 365002	3	17
63	Electronic structure and optical properties of Er5Si3. *Physica B: Condensed Matter*, **2014**, 442, 12-15	2.8	2
62	Electronic structure and optical properties of Nd5Ge3 compound. *Journal of Alloys and Compounds*, **2014**, 588, 725-727	5.7	5
61	Cobalt-related features of spectral and magnetic properties of RNi4Co (R=Ho, Er). *Journal of Magnetism and Magnetic Materials*, **2014**, 368, 87-90	2.8	10
60	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	0.7	2
59	Investigation of real materials with strong electronic correlations by the LDA+DMFT method. *Acta Crystallographica Section C, Structural Chemistry*, **2014**, 70, 137-59	0.8	5
58	Coherent potential approximation simulation of the evolution of the electronic structure of titanium monoxide with the degree of vacancy ordering. *Journal of Experimental and Theoretical Physics*, **2014**, 119, 761-765	1	4

57	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	0.8	
56	Role of structural vacancies in the stabilization of the basic B1 structure in nonstoichiometric titanium monoxide TiO y. *Bulletin of the Russian Academy of Sciences: Physics*, **2013**, 77, 309-312	0.4	1
55	Magnetic and electrical properties of the half-metallic ferromagnets Co2CrAl. *Physics of the Solid State*, **2013**, 55, 977-985	0.8	26
54	Influence of aluminum impurity on the electronic structure and optical properties of the TbNi5 intermetallic compound. *Physics of the Solid State*, **2013**, 55, 385-388	0.8	6
53	Internal energy and parameters of the order-disorder phase transition in titanium monoxide TiO y. *Journal of Experimental and Theoretical Physics*, **2013**, 116, 945-951	1	12
52	Simulation of the short-range order in disordered cubic titanium monoxide TiO1.0. *JETP Letters*, **2013**, 97, 616-620	1.2	14
51	Electronic structure and stability of nonstoichiometric titanium monoxide TiO y with structural vacancies in one of the sublattices. *Physics of the Solid State*, **2013**, 55, 2108-2115	0.8	5
50	Specific features of the electrical resistance of half-metallic ferromagnetic alloys Co2CrAl and Co2CrGa. *Physics of the Solid State*, **2013**, 55, 2487-2490	0.8	14
49	Specific features of the electronic structure and spectral properties of NdNi5 − x Cu x compounds. *Physics of the Solid State*, **2013**, 55, 2191-2195	0.8	1
48	Optical spectroscopy and electronic structure of compounds HoNi5 − x Al x (x = 0, 1, 2). *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 690-695	0.7	2
47	Vacancies in ordered and disordered titanium monoxide: Mechanism of B1 structure stabilization. *Journal of Solid State Chemistry*, **2013**, 204, 146-152	3.3	31
46	Optical spectroscopy and electronic structure of the GdCu x compounds (x = 1, 2, 5). *Physics of the Solid State*, **2013**, 55, 140-144	0.8	3
45	Electronic structure of disordered titanium monoxide TiO y depending on stoichiometry. *JETP Letters*, **2012**, 95, 647-651	1.2	17
44	LDA+DMFT study of magnetic transition and metallization in CoO under pressure. *JETP Letters*, **2012**, 96, 56-60	1.2	17
43	Electronic structure and magnetic properties of PuMGa5 compounds within the LDA + U + SO method. *JETP Letters*, **2012**, 96, 452-455	1.2	6
42	Effect of the long-range order in the vacancy distribution on the electronic structure of titanium monoxide TiO1.0. *JETP Letters*, **2012**, 96, 507-510	1.2	12
41	Electronic structure and optical spectroscopy studies of HoNi5 and ErNi5 compounds doped with Cu. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 824-828	1.3	19
40	Electronic structure of nonstoichiometric compounds in the coherent potential approximation. *JETP Letters*, **2012**, 94, 806-810	1.2	29

39	Effect of Cu-doping on the electronic structure and optical properties of LaNi5. *Journal of Alloys and Compounds*, **2011**, 509, 5238-5241	5.7	12
38	Nature of the electronic states involved in the chemical bonding and superconductivity at high pressure in SnO. *JETP Letters*, **2011**, 94, 142-146	1.2	6
37	Optical properties and electronic structure of YNi5 □x Cu x intermetallic compounds. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2011**, 111, 808-813	0.7	1
36	Electrical resistivity of pure transuranium metals under pressure. *Journal of Nuclear Materials*, **2011**, 413, 41-46	3.3	2
35	Magnetic properties and exchange interactions in TbNi5□Mx (M=Co and Fe) compounds: Ab initio calculations. *Journal of Applied Physics*, **2011**, 109, 07E152	2.5	8
34	Optical Properties and Electronic Structure of LaNi5-XCux (x=0□1.2) Intermetallic System. *Solid State Phenomena*, **2010**, 168-169, 529-532	0.4	2
33	Correlation effects in Ni 3d states of LaNiPO. *Physical Review B*, **2010**, 81,	3.3	5
32	Electronic structure and magnetic state of transuranium metals under pressure. *Journal of Physics Condensed Matter*, **2010**, 22, 495501	1.8	7
31	Metal-insulator transitions and magnetism in correlated band insulators: FeSi and Fe1□CoxSi. *Physical Review B*, **2010**, 81,	3.3	43
30	LDA+DMFT spectral functions and effective electron mass enhancement in the superconductor LaFePO. *Physical Review B*, **2010**, 81,	3.3	21
29	Temperature and concentration dependences of the electrical resistivity for alloys of plutonium with americium under normal conditions. *Journal of Experimental and Theoretical Physics*, **2010**, 111, 1019-1027	1	2
28	Specific features of the behavior of the optical properties of TbNi5 □x Cu x intermetallic compounds **2010**, 104, 360		
27	Theoretical investigation of the residual electrical resistivity concentration dependence of transuranium metal alloys. *Physical Review B*, **2009**, 80,	3.3	5
26	Ab initio exchange interactions and magnetic properties of the Gd2Fe17 iron sublattice: Rhombohedral versus hexagonal phases. *Physical Review B*, **2009**, 80,	3.3	31
25	Role of Electronic Band Structure and Lattice Parameters in Magnetism of the R2(Fe,M)17, □= Si, Al Compounds. *Solid State Phenomena*, **2009**, 152-153, 41-44	0.4	
24	Optical absorption and structure of energy bands of GdNi5 □xCu x intermetallic compounds. *Physics of Metals and Metallography*, **2009**, 107, 173-178	1.2	6
23	Specific features of the behavior of the optical properties of TbNi5 □x Cu x intermetallic compounds. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2008**, 104, 360-365	0.7	8
22	Collapse of magnetic moment drives the Mott transition in MnO. *Nature Materials*, **2008**, 7, 198-202	27	145

21	Evolution of the electronic structure and physical properties of Fe2MeAl (Me = Ti, V, Cr) Heusler alloys. *Journal of Physics Condensed Matter*, **2008**, 20, 045212	1.8	31
20	Origin of large thermopower in LiRh2O4: Calculation of the Seebeck coefficient by the combination of local density approximation and dynamical mean-field theory. *Physical Review B*, **2008**, 78,	3.3	42
19	NiO: correlated band structure of a charge-transfer insulator. *Physical Review Letters*, **2007**, 99, 156404	7.4	122
18	Transition of iron ions from high-spin to low-spin state and pressure-induced insulator-metal transition in hematite Fe2O3. *Journal of Experimental and Theoretical Physics*, **2007**, 105, 1035-1042	1	7
17	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	0.8	5
16	Sm2Fe17and Tm2Fe17: electronic structure, magnetic and optical properties. *Journal of Physics Condensed Matter*, **2007**, 19, 116215	1.8	14
15	Orbital density functional as a means to restore the discontinuities in the total-energy derivative and the exchange□correlation potential. *Journal of Physics Condensed Matter*, **2007**, 19, 106206	1.8	9
14	Doped Mott insulator as the origin of heavy-fermion behavior in LiV2O4. *Physical Review Letters*, **2007**, 98, 166402	7.4	50
13	Local correlations and hole doping in NiO: A dynamical mean-field study. *Physical Review B*, **2007**, 75,	3.3	86
12	Calculation of temperature dependence of electrical resistivity in the transuranium metals and their alloys. *Physical Review B*, **2007**, 76,	3.3	16
11	Electronic structure, magnetic, and optical properties of the intermetallic compounds R2Fe17 (R=Pr,Gd). *Physical Review B*, **2006**, 73,	3.3	24
10	The role of transition metal impurities and oxygen vacancies in the formation of ferromagnetism in Co-doped TiO2. *Journal of Physics Condensed Matter*, **2006**, 18, 1695-1704	1.8	46
9	Studying charge ordering and parameters of exchange interaction in NaxCoO2. *Physics of Metals and Metallography*, **2006**, 101, 255-260	1.2	1
8	The origin of an elastic line in the L 3 x-ray emission spectrum of metallic manganese. *Physics of the Solid State*, **2006**, 48, 420-426	0.8	
7	The semiconductor-to-ferromagnetic-metal transition in FeSb2. *European Physical Journal B*, **2006**, 53, 205-207	1.2	42
6	Magnetic state and electronic structure of the □and □phases of metallic Pu and its compounds. *Physical Review B*, **2005**, 72,	3.3	135
5	Charge state of a transition metal impurity in II□VI semiconductors. *Physics of the Solid State*, **2005**, 47, 1560	0.8	1
4	Anomalous concentration dependence of residual electrical resistivity in Fe-Cr alloys. *Physical Review B*, **2005**, 72,	3.3	7

3	Optical conductivity of ortho-II YBa2Cu3O6.5. *Physical Review B*, **2005**, 71,	3.3	16
2	Neutron and Raman studies of lattice distortions in Zn1−xNixSe induced by nickel. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3150-3153		2
1	Optical properties and electronic structure of the CeFeSi-type GdTiGe and GdTiSi compounds. *Journal of Alloys and Compounds*, **2004**, 384, 57-61	5.7	2