

Sergey Podgornykh

List of Publications by Year in descending order

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papers

299
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933447

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times ranked

327
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat capacity of Heusler alloys: Ferromagnetic Ni ₂ MnSb, Ni ₂ MnSn, NiMnSb and antiferromagnetic CuMnSb. Journal of Magnetism and Magnetic Materials, 2007, 311, 530-534.	2.3	27
2	Low-temperature electron properties of Heusler alloys Fe ₂ VAl and Fe ₂ CrAl: Effect of annealing. Journal of Experimental and Theoretical Physics, 2007, 105, 42-45.	0.9	26
3	Butterflylike specific heat, magnetocaloric effect, and itinerant metamagnetism in $\text{La}(\text{Fe}_{0.88}\text{Si}_{0.12}\text{Al}_x)_{13}$. Physical Review B, 2009, 79, .	3.2	21
4	Spin splittings in the n- quantum well with inverted band structure. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 948-951.	2.7	19
5	Effect of Al substitution on the magnetocaloric properties of $\text{La}(\text{Fe}_{0.88}\text{Si}_{0.12}\text{Al}_x)_{13}$. Physical Review B, 2011, 83, .	3.2	15
6	Anomalous low-temperature contribution to the heat capacity from hybridized electronic states on transition element impurities. Low Temperature Physics, 2011, 37, 220-225.	0.6	13
7	Magnetic phase diagram of $\text{La}(\text{Fe}_{0.873}\text{Co}_{0.007}\text{Al}_{0.12})_{13}$ cluster intermetallic compound. Journal of Magnetism and Magnetic Materials, 2001, 237, 147-152.	2.3	12
8	Heat capacity of the $\text{La}(\text{Fe}_{0.88}\text{Si}_{0.12})_{13}$ and $\text{La}(\text{Fe}_{0.88}\text{Si}_{0.12})_{13}\text{H}_{1.5}$ compounds with a large magnetocaloric effect. Physical Review B, 2006, 73, .	3.2	12
9	Effects of spin polarization in the HgTe quantum well. Physical Review B, 2012, 85, .	3.2	11
10	Temperature scaling in the quantum-Hall-effect regime in a HgTe quantum well with an inverted energy spectrum. Semiconductors, 2015, 49, 1545-1549.	0.5	11
11	HgTe/CdHgTe double quantum well with a spectrum of bilayer graphene and peculiarities of its magnetotransport. JETP Letters, 2016, 104, 403-410.	1.4	11
12	Relationship between the heat capacity, thermal expansion coefficient, and spontaneous magnetization in the invarlike compound YFe ₁₀ Mo ₂ . Physics of Metals and Metallography, 2010, 109, 247-254.	1.0	10
13	Experimental observation of spontaneous spin polarization of electrons in hybridized states of transition element impurities in semiconductors. Low Temperature Physics, 2013, 39, 384-388.	0.6	9
14	New manifestations of a pseudogap state and electron spin scattering in the low-temperature thermal properties of near-stoichiometric iron-vanadium-aluminum alloys. Low Temperature Physics, 2015, 41, 150-153.	0.6	7
15	Features of quantum effects in two-dimensional $\text{GaAs}/\text{InGaAs}/\text{GaAs}$ structures with double quantum wells. Low Temperature Physics, 2007, 33, 156-159.	0.6	6
16	Grüneisen's law and particularities of electronic excitations in quasicrystals. Low Temperature Physics, 2009, 35, 536-538.	0.6	6
17	Heat capacity of the $\text{Ni}_{50}\text{Mn}_{37}(\text{In}_{0.2}\text{Sn}_{0.8})_{13}$ alloy. Journal of Physics: Conference Series, 2011, 266, 012004.	0.4	6
18	The effect of infrared radiation on quantum magnetotransport in n-InGaAs/GaAs with two strongly coupled quantum wells. Low Temperature Physics, 2013, 39, 374-377.	0.6	6

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19	Variable-Range Hopping Conductivity in Quantum Hall Regime for HgTe-Based Heterostructure. Journal of Low Temperature Physics, 2016, 185, 665-672.	1.4	6
20	Magnetic breakdown and quantum magnetotransport with a constant pseudospin under tilted magnetic fields in an n-In _x Ga _{1-x} As/GaAs double quantum well. Journal of Experimental and Theoretical Physics, 2007, 105, 214-222.	0.9	5
21	Temperature dependence of quantum lifetime in InGaAs/GaAs structures with strongly coupled double quantum wells. Low Temperature Physics, 2013, 39, 43-49.	0.6	5
22	Anomalous low-temperature specific heat of Fe ₂ V _{1+x} Al (x=0;). Tj ETQq0 0,0 rgBT /Overlock 10	0,4	4
23	Quantum magnetotransport in InGaAs/GaAs structures with electron density changes caused by infrared radiation. Low Temperature Physics, 2015, 41, 221-232.	0.6	4
24	2D localization and delocalization effects in quantum Hall regime in HgTe wide quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 473-476.	0.8	4
25	New data and developments pertaining to ideas about the electron system of hybridized states of cobalt impurity atoms in a mercury selenide crystal. Low Temperature Physics, 2017, 43, 508-514.	0.6	4
26	Electron Effective Mass and g Factor in Wide HgTe Quantum Wells. Semiconductors, 2018, 52, 12-18.	0.5	4
27	Evolution of the spin-split quantum Hall states with magnetic field tilt in the InAs-based double quantum wells. Journal of Physics: Conference Series, 2009, 150, 022100.	0.4	3
28	On the experimental substantiation of the hybridization of electronic states on cobalt impurities in the conduction band of a crystal. Physics of Metals and Metallography, 2012, 113, 326-330.	1.0	3
29	Examination of the specific features of the electron density of states of weakly nonstoichiometric Fe _{1-x} Al alloys through the analysis of low-temperature heat capacity. Technical Physics Letters, 2016, 42, 898-900.	0.7	3
30	Quantum Hall effect in n-InGaAs/InAlAs metamorphic nanoheterostructures with high InAs content. Journal of Magnetism and Magnetic Materials, 2017, 440, 10-12.	2.3	3
31	Activation transport under quantum Hall regime in HgTe-based heterostructure. Low Temperature Physics, 2017, 43, 485-490.	0.6	3
32	Low-energy excited states of 3d transition metal ions in zinc selenide. Physics of the Solid State, 2006, 48, 1703-1707.	0.6	2
33	Specific heat of La(Fe _{0.873} Co _{0.007} Al _{0.12}) ₁₃ compound in antiferromagnetic and ferromagnetic states. Journal of Experimental and Theoretical Physics, 2007, 105, 62-64.	0.9	2
34	Effect of the magnetic prehistory on the low-temperature heat capacity of the La(Fe _{0.88} Al _{0.12-x} Si _x) ₁₃ compounds. Journal of Physics: Conference Series, 2010, 200, 032057.	0.4	2
35	Magnetoresistance of Ni ₅₀ Mn ₃₇ (Sn _{1-x} In _x) ₁₃ Alloys. Solid State Phenomena, 2010, 168-169, 204-207.	0.3	2
36	Quantum Hall effect and hopping conductivity in n-InGaAs/InAlAs nanoheterostructures. Semiconductors, 2016, 50, 1641-1646.	0.5	2

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37	The detection of a strong influence of composition variations on low-temperature magnetic ordering in nearly stoichiometric Fe ^{1-x} Al alloys. Technical Physics Letters, 2016, 42, 1122-1125.	0.7	2
38	Insulator-quantum Hall transition in n-InGaAs/GaAs heterostructures. Low Temperature Physics, 2017, 43, 491-494.	0.6	2
39	Nonuniversal Scaling Behavior of Conductivity Peak Widths in the Quantum Hall Effect in InGaAs/InAlAs Structures. Semiconductors, 2018, 52, 1551-1558.	0.5	2
40	Quantum magnetotransport in an n-In _x Ga _{1-x} As/GaAs double quantum well in tilted magnetic fields. Low Temperature Physics, 2007, 33, 151-155.	0.6	1
41	Quantum Hall effect in an InAs ^{1-x} Sb double quantum well. Low Temperature Physics, 2009, 35, 44-47.	0.6	1
42	Interlevel hybridization phenomena in the coincidence effect under quantum Hall regime in a HgTe quantum well. Journal of Physics: Conference Series, 2011, 334, 012030.	0.4	1
43	Tunneling effects in tilted magnetic fields in n-InGaAs/GaAs structures with strongly coupled double quantum wells. Semiconductors, 2013, 47, 1447-1451.	0.5	1
44	Spontaneous and forced magnetostriction of Co ^{1-x} Mnx and Co ^{1-x} (FeMn) _x alloys. Journal of Magnetism and Magnetic Materials, 1995, 145, 186-188.	2.3	0
45	STEREOSCOPIC OSCILLATIONS OF THE n-InGaAs/GaAs DOUBLE QUANTUM WELL MAGNETORESISTANCE UNDER TILTED MAGNETIC FIELDS. International Journal of Modern Physics B, 2007, 21, 1399-1403.	2.0	0
46	Jahn-Teller effect and lattice shear strain in Zn ^{1-x} MxSe. Low Temperature Physics, 2007, 33, 202-206.	0.6	0
47	TRANSPORT PROPERTIES OF 2D ELECTRON GAS IN AN n-InGaAs/GaAs DQW IN A VICINITY OF LOW MAGNETIC-FIELD-INDUCED HALL INSULATOR-QUANTUM HALL LIQUID TRANSITION. International Journal of Nanoscience, 2007, 06, 173-177.	0.7	0
48	Relationship between the Spontaneous Magnetization, Spontaneous Magnetostriction and Heat Capacity in the Compound Mn ₅ Ge ₃ . Solid State Phenomena, 0, 168-169, 153-156.	0.3	0
49	A problem of the effective g-factor in the n-HgTe ^{1-x} Cd _x Hg ^{1-x} Te quantum well with inverted band structure. , 2011, , .		0
50	Spin Polarization Phenomena and Pseudospin Quantum Hall Ferromagnetism in the HgTe Quantum Well. AIP Conference Proceedings, 2011, , .	0.4	0