

Alexey Suslov

List of Publications by Year in descending order

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78
papers

1,423
citations

567281

15
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330143

37
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82
all docs

82
docs citations

82
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the strong electron correlations on the formation of Wigner crystal in n-GaAs/AlGaAs structure: Surface Acoustic Waves studies. Journal of Physics: Conference Series, 2022, 2164, 012021.	0.4	0
2	An all-epitaxial nitride heterostructure with concurrent quantum Hall effect and superconductivity. Science Advances, 2021, 7, .	10.3	12
3	Two-fold symmetric superconductivity in few-layer NbSe ₂ . Nature Physics, 2021, 17, 949-954.	16.7	65
4	Magnetostriction of AlFe_2B_2 in high magnetic fields. Physical Review Materials, 2021, 5, .	2.4	1
5	Dresselhaus spin-orbit interaction in the $\text{p-AlGaAs/GaAs/AlGaAs}$ structure with a square quantum well: Surface acoustic wave study. Physical Review B, 2021, 104, .	3.2	2
6	Identifying the fingerprints of topological states by tuning magnetoresistance in a semimetal: The case of topological half-Heusler PtMn_3 . Physical Review Materials, 2021, 5, .	2.4	1
7	Enhanced spin correlations in the Bose-Einstein condensate compound Sr_3O_8 . Physical Review B, 2020, 102, .	3.2	10
8	Superconductivity in Thin Films of the Dirac Semimetal Cd ₃ As ₂ . Physics of the Solid State, 2020, 62, 419-422.	0.6	4
9	Electronic band structure in n-type GaAs/AlGaAs wide quantum wells in tilted magnetic field. Journal of Physics Condensed Matter, 2020, 32, 035303.	1.8	1
10	Observation of an antiferromagnetic quantum critical point in high-purity LaNiO ₃ . Nature Communications, 2020, 11, 1402.	12.8	16
11	Superconductivity and Shubnikov - de Haas effect in polycrystalline Cd ₃ As ₂ thin films. Scientific Reports, 2020, 10, 4601.	3.3	17
12	Topological Insulator State and Collapse of the Quantum Hall Effect in a Three-Dimensional Dirac Semimetal Heterojunction. Physical Review X, 2020, 10, .	8.9	22
13	Composite fermions in a wide quantum well in the vicinity of the filling factor 1/2. Solid State Communications, 2019, 301, 113698.	1.9	1
14	New stable icosahedral quasicrystal in the system Al-Cu-Co-Fe . Journal of Alloys and Compounds, 2019, 801, 478-482.	5.5	4
15	Linear magnetoresistance in the low-field limit in density-wave materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11201-11206.	7.1	34
16	Observation of subkelvin superconductivity in Cd_3As_2 thin films. Physical Review B, 2019, 99, .	3.2	25
17	Quantum Hall effect based on Weyl orbits in Cd ₃ As ₂ . Nature, 2019, 565, 331-336.	27.8	194
18	Intersubband scattering in n -GaAs/AlGaAs wide quantum wells. Physical Review B, 2018, 97, .	3.2	8

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19	Field-induced magnetic phase transitions and metastable states in n -GaAs/AlGaAs heterostructures at filling factors $\nu = 1/2$. Physical Review B, 2018, 97, .	3.2	8
20	Nature of localized states in two-dimensional electron systems in the quantum Hall regime: Acoustic studies. Low Temperature Physics, 2017, 43, 86-94.	0.6	3
21	Highly sensitive simple homodyne phase detector for ultrasonic pulse-echo measurements. Review of Scientific Instruments, 2016, 87, 044901.	1.3	3
22	Experimental determination of the bulk Rashba parameters in BiTeBr. Europhysics Letters, 2016, 116, 57003.	2.0	9
23	Melting of Wigner crystal in high-mobility n -GaAs/AlGaAs heterostructures at filling factors $\nu = 0.18$. Acoustic studies. Physical Review B, 2016, 94, .	3.2	8
24	Magnetotransport in double quantum well with inverted energy spectrum: HgTe/CdHgTe. Physical Review B, 2016, 93, .	3.2	16
25	Fractional Quantum Hall States in a Ge Quantum Well. Physical Review Letters, 2016, 116, 176802.	7.8	13
26	Spatially inhomogeneous electron state deep in the extreme quantum limit of strontium titanate. Nature Communications, 2016, 7, 12974.	12.8	16
27	Crossover between localized states and pinned Wigner crystal in high-mobility n -GaAs/AlGaAs heterostructures near filling factor $\nu = 1/2$. Physical Review B, 2015, 92, .	3.2	9
28	A facility for X-ray diffraction in magnetic fields up to 25 T and temperatures between 15 and 295 K. Review of Scientific Instruments, 2015, 86, 123902.	1.3	6
29	AC transport in p-Ge/GeSi quantum well in high magnetic fields. , 2014, , .		0
30	Unusual Shubnikov-de Haas oscillations in BiTeCl. Physical Review B, 2014, 90, .	3.2	15
31	In-plane magnetic field effect on hole cyclotron mass and g-factor in high-mobility SiGe/Ge/SiGe structures. Physical Review B, 2014, 90, .	3.2	3
32	Components of strong magnetoresistance in Mn implanted Ge. Journal of Applied Physics, 2014, 115, 093703.	2.5	2
33	Surface Acoustic Waves Probe of the Spin Phase Transition at $\nu = 2/3$ in n-GaAs/AlGaAs structure. Journal of Physics: Conference Series, 2014, 568, 052031.	0.4	0
34	Acoustoelectric effects in very high-mobility p-SiGe/Ge/SiGe heterostructure at low temperatures in high magnetic fields. Journal of Applied Physics, 2013, 114, 074302.	2.5	4
35	Evolution of incommensurate spin order with magnetic field and temperature in the itinerant antiferromagnet GdSi. Physical Review B, 2013, 88, .	3.2	11
36	Quantum Hall Ferromagnetic-Paramagnetic Transition in p-Si/SiGe/Si Quantum Wells in a Tilted Magnetic Field. Journal of Physics: Conference Series, 2012, 400, 042005.	0.4	1

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37	Magnetoconductivity in a tilted magnetic field in p-Si/SiGe/Si heterostructures with an anisotropic g-factor. Part II. Journal of Experimental and Theoretical Physics, 2012, 115, 480-484.	0.9	0
38	Effects of spin polarization in the HgTe quantum well. Physical Review B, 2012, 85, .	3.2	11
39	The suppression of magnetic level coincidences in tilted magnetic fields in the HgTe quantum well as a consequence of electronic phase transitions under quantum hall effect conditions. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 204-206.	0.6	1
40	A problem of the effective g-factor in the n-HgTe \cdot Cd _x Hg _{1-x} Te quantum well with inverted band structure. , 2011, , .		0
41	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
42	Spin Polarization Phenomena and Pseudospin Quantum Hall Ferromagnetism in the HgTe Quantum Well. AIP Conference Proceedings, 2011, , .	0.4	0
43	Acoustic studies of ac conductivity mechanisms in GaAs/AlGaAs heterostructures. Journal of Experimental and Theoretical Physics, 2010, 111, 495-502.	3.2	7
44	Magnetoconductivity and acoustoelectronic effects in a tilted magnetic field in p-Si/SiGe/Si structures with an anisotropic g factor. Journal of Experimental and Theoretical Physics, 2010, 111, 495-502.	0.9	5
45	Magnetoconductance in Low-density p-type Si \cdot SiGe \cdot Si Quantum Well in a Parallel Magnetic Field. , 2010, , .		0
46	Stand alone experimental setup for dc transport measurements. Review of Scientific Instruments, 2010, 81, 075111.	1.3	11
47	Magnetoconductance in dilute p-Si/SiGe in parallel and tilted magnetic fields. Annalen Der Physik, 2009, 18, 939-943.	2.4	1
48	Magnetization-driven metal-insulator transition in strongly disordered Ge:Mn magnetic semiconductors. Physical Review B, 2009, 79, .	3.2	22
49	Large magnetoconductance of a dilute p-Si/SiGe quantum well in a parallel magnetic field. Physical Review B, 2009, 79, .	3.2	11
50	Wigner glass formation in 2DHG of p-Si/SiGe by high magnetic fields. Journal of Physics: Conference Series, 2009, 150, 022010.	0.4	2
51	Resonances of piezoelectric plate with embedded 2D electron system. Journal of Physics: Conference Series, 2009, 150, 022079.	0.4	0
52	Low-temperature conductance mechanisms in Si/SiGe heterostructures in high magnetic fields. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 829-834.	0.8	0
53	Magnetoconductance in low-density Si/SiGe heterostructures: From metal through hopping insulator to Wigner glass. Physical Review B, 2008, 77, .	3.2	5
54	Influence of hydrostatic pressure on the magnetic phase diagram of superconducting Sr ₂ RuO ₄ by ultrasonic attenuation. Physical Review B, 2008, 77, .	3.2	4

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55	Resonant ultrasound spectroscopy of $KTa_{1-x}Nb_xO_3$ ferroelectric relaxor crystals. <i>Physical Review B</i> , 2008, 78, .	3.2	16
56	Electronic instabilities in shape-memory alloys: Thermodynamic and electronic structure studies of the martensitic transition. <i>Physical Review B</i> , 2007, 75, .	3.2	9
57	Spin Dynamics of the Spin-1/2 Kagome Lattice Antiferromagnet $ZnCu_3(OH)_6Cl_2$. <i>Physical Review Letters</i> , 2007, 98, 107204.	7.8	706
58	AC conductance in p-type Si/SiGe heterostructures in the ultra-quantum limit. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
59	Static and high-frequency hole transport in p-Si/SiGe heterostructures in the extreme quantum limit. <i>JETP Letters</i> , 2007, 86, 244-248.	1.4	4
60	Elastic properties of $Gd_5Si_2Ge_2$ studied with an ultrasonic pulse-echo technique. <i>Physical Review B</i> , 2006, 74, .	3.2	13
61	AC Conductance in Dense Array of the $Ge_{0.7}Si_{0.3}$ Quantum Dots in Si. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
62	Floating zone growth and carrier relaxation dynamics in single crystals of Sr_2RuO_4 near the clean limit. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 525-528.	4.0	3
63	Ultrasonic instrumentation for measurements in high magnetic fields. I. Continuous magnetic fields. <i>Review of Scientific Instruments</i> , 2006, 77, 035104.	1.3	5
64	Ultrasonic instrumentation for measurements in high magnetic fields. II. Pulsed magnetic fields. <i>Review of Scientific Instruments</i> , 2006, 77, 035105.	1.3	6
65	Mechanisms of low-temperature high-frequency conductivity in systems with a dense array of $Ge_{0.7}Si_{0.3}$ quantum dots in silicon. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 1122-1129.	0.9	0
66	ULTRASONIC SPECTROMETERS FOR CONDENSED MATTER STUDIES AT VERY HIGH MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2002, 16, 3391-3394.	2.0	1
67	ULTRASONIC MEASUREMENTS AT THE METAMAGNETIC TRANSITION IN URu_2Si_2 . <i>International Journal of Modern Physics B</i> , 2002, 16, 3037-3040.	2.0	0
68	ULTRASONIC AND MAGNETIZATION STUDIES AT THE METAMAGNETIC TRANSITION IN UPt_3 . <i>International Journal of Modern Physics B</i> , 2002, 16, 3066-3069.	2.0	2
69	ULTRASONIC AND MAGNETIZATION STUDIES AT THE METAMAGNETIC TRANSITION IN UPt_3 . , 2002, , .		0
70	ULTRASONIC SPECTROMETERS FOR CONDENSED MATTER STUDIES AT VERY HIGH MAGNETIC FIELDS. , 2002, , .		0
71	ULTRASONIC MEASUREMENTS AT THE METAMAGNETIC TRANSITION IN URu_2Si_2 . , 2002, , .		0
72	Anisotropy of the Metamagnetic Transition in UPt_3 . <i>Journal of Low Temperature Physics</i> , 2000, 121, 221-226.	1.4	4

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73	The Investigation of the High-Frequency Hopping Conductivity in Two- and Three-Dimensional Electron Gas by an Acoustic Method. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 205, 111-114.	1.5	0
74	The Nonlinear Effects in 2DEG Conductivity Investigation by an Acoustic Method. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 205, 357-361.	1.5	1
75	Electron localization in sound absorption oscillations in the quantum Hall effect regime. <i>Semiconductors</i> , 1997, 31, 384-390.	0.5	7
76	Heating of a two-dimensional electron gas by the electric field of a surface acoustic wave. <i>Semiconductors</i> , 1997, 31, 1170.	0.5	7
77	Influence of the electric field on heat pulse propagation in SrTiO ₃ . <i>Ferroelectrics</i> , 1994, 155, 115-119.	0.6	2
78	Study of the Effect of Cation Non-Stoichiometry of (La _{0.85} Sr _{0.15}) ₂ Y ₂ MnO ₇ Manganite Single Crystals on the Magnetic Properties. <i>Solid State Phenomena</i> , 0, 194, 108-111.		0