

# Alexey Suslov

## List of Publications by Year in descending order

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78  
papers

1,423  
citations

567281

15  
h-index

330143

37  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Dynamics of the Spin-1/2 Kagome Lattice Antiferromagnet $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$ . Physical Review Letters, 2007, 98, 107204.	7.8	706
2	Quantum Hall effect based on Weyl orbits in $\text{Cd}_3\text{As}_2$ . Nature, 2019, 565, 331-336.	27.8	194
3	Two-fold symmetric superconductivity in few-layer $\text{NbSe}_2$ . Nature Physics, 2021, 17, 949-954.	16.7	65
4	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
5	Observation of subkelvin superconductivity in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ thin films. Physical Review B, 2019, 99, .	3.2	23
6	Magnetization-driven metal-insulator transition in strongly disordered Ge:Mn magnetic semiconductors. Physical Review B, 2009, 79, .	3.2	22
7	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
8	Superconductivity and Shubnikov - de Haas effect in polycrystalline $\text{Cd}_3\text{As}_2$ thin films. Scientific Reports, 2020, 10, 4601.	3.3	17
9	Resonant ultrasound spectroscopy of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ ferroelectric relaxor crystals. Physical Review B, 2008, 78, .	3.2	16
10	Large magnetoresistance of a dilute $\text{p-Si}$ quantum well in a parallel magnetic field. Physical Review B, 2009, 79, .	3.2	16
11	Magnetotransport in double quantum well with inverted energy spectrum: $\text{HgTe}/\text{CdHgTe}$ . Physical Review B, 2016, 93, .	3.2	16
12	Spatially inhomogeneous electron state deep in the extreme quantum limit of strontium titanate. Nature Communications, 2016, 7, 12974.	12.8	16
13	Field-induced magnetic phase transitions and metastable states in $\text{Tb}_{1-x}\text{Mn}_x\text{Te}$ . Physical Review B, 2018, 97, .	3.2	16
14	Observation of an antiferromagnetic quantum critical point in high-purity $\text{LaNiO}_3$ . Nature Communications, 2020, 11, 1402.	12.8	16
15	Unusual Shubnikov - de Haas oscillations in $\text{BiTeCl}$ . Physical Review B, 2014, 90, .	3.2	15
16	Elastic properties of $\text{Gd}_5\text{Si}_2\text{Ge}_2$ studied with an ultrasonic pulse-echo technique. Physical Review B, 2006, 74, .	3.2	13
17	Fractional Quantum Hall States in a Ge Quantum Well. Physical Review Letters, 2016, 116, 176802.	7.8	13
18	An all-epitaxial nitride heterostructure with concurrent quantum Hall effect and superconductivity. Science Advances, 2021, 7, .	10.3	12

#	ARTICLE	IF	CITATIONS
19	Stand alone experimental setup for dc transport measurements. Review of Scientific Instruments, 2010, 81, 075111.	1.3	11
20	Effects of spin polarization in the HgTe quantum well. Physical Review B, 2012, 85, .	3.2	11
21	Evolution of incommensurate spin order with magnetic field and temperature in the itinerant antiferromagnet GdSi. Physical Review B, 2013, 88, .	3.2	11
22	Enhanced spin correlations in the Bose-Einstein condensate compound $\text{Sr}_3\text{O}_8$ . Physical Review B, 2020, 102, .	3.2	10
23	Electronic instabilities in shape-memory alloys: Thermodynamic and electronic structure studies of the martensitic transition. Physical Review B, 2007, 75, .	3.2	9
24	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
25	Experimental determination of the bulk Rashba parameters in BiTeBr. Europhysics Letters, 2016, 116, 57003.	2.0	9
26	Melting of Wigner crystal in high-mobility $n$ -GaAs/AlGaAs heterostructures at filling factors $\nu = 0.18$ & $\nu = 1/2$ . Acoustic studies. Physical Review B, 2016, 94, .	3.2	8
27	Intersubband scattering in $n$ -GaAs/AlGaAs wide quantum wells. Physical Review B, 2018, 97, .	3.2	8
28	Electron localization in sound absorption oscillations in the quantum Hall effect regime. Semiconductors, 1997, 31, 384-390.	0.5	7
29	Acoustic studies of ac conductivity mechanisms in $n$ -GaAs/Al $\nu = 1/2$ heterostructures. Physical Review B, 2016, 94, .	3.2	7
30	Heating of a two-dimensional electron gas by the electric field of a surface acoustic wave. Semiconductors, 1997, 31, 1170.	0.5	7
31	Ultrasonic instrumentation for measurements in high magnetic fields. II. Pulsed magnetic fields. Review of Scientific Instruments, 2006, 77, 035105.	1.3	6
32	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
33	Ultrasonic instrumentation for measurements in high magnetic fields. I. Continuous magnetic fields. Review of Scientific Instruments, 2006, 77, 035104.	1.3	5
34	Magnetotransport in low-density $p$ -Si $\hat{\alpha}$ heterostructures: From metal through hopping insulator to Wigner glass. Physical Review B, 2008, 77, .	3.2	5
35	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
36	Anisotropy of the Metamagnetic Transition in UPt <sub>3</sub> . Journal of Low Temperature Physics, 2000, 121, 221-226.	1.4	4

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37	Static and high-frequency hole transport in p-Si/SiGe heterostructures in the extreme quantum limit. JETP Letters, 2007, 86, 244-248.	1.4	4
38	Influence of hydrostatic pressure on the magnetic phase diagram of superconducting Sr <sub>2</sub> RuO <sub>4</sub> by ultrasonic attenuation. Physical Review B, 2008, 77, .	3.2	4
39	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
40	New stable icosahedral quasicrystal in the system Al-Cu-Co-Fe. Journal of Alloys and Compounds, 2019, 801, 478-482.	5.5	4
41	Superconductivity in Thin Films of the Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> . Physics of the Solid State, 2020, 62, 419-422.	0.6	4
42	Floating zone growth and carrier relaxation dynamics in single crystals of Sr <sub>2</sub> RuO <sub>4</sub> near the clean limit. Journal of Physics and Chemistry of Solids, 2006, 67, 525-528.	4.0	3
43	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
44	Highly sensitive simple homodyne phase detector for ultrasonic pulse-echo measurements. Review of Scientific Instruments, 2016, 87, 044901.	1.3	3
45	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
46	Influence of the electric field on heat pulse propagation in SrTiO <sub>3</sub> . Ferroelectrics, 1994, 155, 115-119.	0.6	2
47	ULTRASONIC AND MAGNETIZATION STUDIES AT THE METAMAGNETIC TRANSITION IN UPt <sub>3</sub> . International Journal of Modern Physics B, 2002, 16, 3066-3069.	2.0	2
48	Wigner glass formation in 2DHG of p-Si/SiGe by high magnetic fields. Journal of Physics: Conference Series, 2009, 150, 022010.	0.4	2
49	Components of strong magnetoresistance in Mn implanted Ge. Journal of Applied Physics, 2014, 115, 093703.	2.5	2
50	Dresselhaus spin-orbit interaction in the $p$ -AlGaAs/GaAs/AlGaAs structure with a square quantum well: Surface acoustic wave study. Physical Review B, 2021, 104, .	3.2	2
51	The Nonlinear Effects in 2DEG Conductivity Investigation by an Acoustic Method. Physica Status Solidi (B): Basic Research, 1998, 205, 357-361.	1.5	1
52	ULTRASONIC SPECTROMETERS FOR CONDENSED MATTER STUDIES AT VERY HIGH MAGNETIC FIELD. International Journal of Modern Physics B, 2002, 16, 3391-3394.	2.0	1
53	Magnetoresistance in dilute p-Si/SiGe in parallel and tilted magnetic fields. Annalen Der Physik, 2009, 18, 939-943.	2.4	1
54	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

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55	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
56	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
57	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
58	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
59	Magnetostriction of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \langle \text{mml:msub} \langle \text{mml:mi} \langle \text{mml:mathvariant="normal"} \rangle B \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \rangle \rangle \rangle \rangle \rangle$ in high magnetic fields. Physical Review Materials, 2021, 5, .	2.4	1
60	Identifying the fingerprints of topological states by tuning magnetoresistance in a semimetal: The case of topological half-Heusler $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \rangle$ . Physical Review Materials, 2021, 5, .	2.4	1
61	The Investigation of the High-Frequency Hopping Conductivity in Two- and Three-Dimensional Electron Gas by an Acoustic Method. Physica Status Solidi (B): Basic Research, 1998, 205, 111-114.	1.5	0
62	ULTRASONIC MEASUREMENTS AT THE METAMAGNETIC TRANSITION IN URu2Si2. International Journal of Modern Physics B, 2002, 16, 3037-3040.	2.0	0
63	Mechanisms of low-temperature high-frequency conductivity in systems with a dense array of Ge0.7Si0.3 quantum dots in silicon. Journal of Experimental and Theoretical Physics, 2005, 101, 1122-1129.	0.9	0
64	AC Conductance in Dense Array of the Ge0.7Si0.3 Quantum Dots in Si. AIP Conference Proceedings, 2006, , .	0.4	0
65	AC conductance in p-type Si/SiGe heterostructures in the ultra-quantum limit. AIP Conference Proceedings, 2007, , .	0.4	0
66	Low-temperature conductance mechanisms in p-Si/SiGe heterostructures in high magnetic fields. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 829-834.	0.8	0
67	Resonances of piezoelectric plate with embedded 2D electron system. Journal of Physics: Conference Series, 2009, 150, 022079.	0.4	0
68	Magnetoresistance in Low-density p-type Si <sup>δ</sup> -SiGe <sup>1-δ</sup> -Si Quantum Well in a Parallel Magnetic Field. , 2010, , .		0
69	A problem of the effective g-factor in the n-HgTe <sup>z</sup> -Cd <sub>x</sub> Hg <sub>1-x</sub> Te quantum well with inverted band structure. , 2011, , .		0
70	Spin Polarization Phenomena and Pseudospin Quantum Hall Ferromagnetism in the HgTe Quantum Well. AIP Conference Proceedings, 2011, , .	0.4	0
71	Study of the Effect of Cation Non-Stoichiometry of (La <sub>0.85</sub> Sr <sub>0.15</sub> ) <sub>1-x</sub> MnO <sub>3</sub> Manganite Single Crystals on the Magnetic Properties. Solid State Phenomena, 0, 194, 108-111.		0
72	Magnetoresistivity 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

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73	AC transport in p-Ge/GeSi quantum well in high magnetic fields. , 2014, , .		0
74	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
75	ULTRASONIC AND MAGNETIZATION STUDIES AT THE METAMAGNETIC TRANSITION IN UPt3. , 2002, , .		0
76	ULTRASONIC SPECTROMETERS FOR CONDENSED MATTER STUDIES AT VERY HIGH MAGNETIC FIELDS. , 2002, , .		0
77	ULTRASONIC MEASUREMENTS AT THE METAMAGNETIC TRANSITION IN URu2Si2. , 2002, , .		0
78	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