

# Pavel Alekseev

## List of Publications by Year in descending order

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44  
papers

791  
citations

687335

13  
h-index

501174

28  
g-index

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45  
docs citations

45  
times ranked

581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron density effect on spin-orbit interaction in [001] GaAs quantum wells. <i>Physical Review B</i> , 2021, 103, .	3.2	1
2	Ballistic-hydrodynamic phase transition in flow of two-dimensional electrons. <i>Physical Review B</i> , 2021, 104, .	3.2	9
3	On the Ballistic Flow of Two-Dimensional Electrons in a Magnetic Field. <i>Semiconductors</i> , 2021, 55, 562-573.	0.5	4
4	Viscosity of two-dimensional electrons. <i>Physical Review B</i> , 2020, 102, .	3.2	26
5	Dynamic spin-charge coupling: ac spin Hall magnetoresistance in nonmagnetic conductors. <i>Physical Review B</i> , 2019, 100, .	3.2	3
6	Magnetosonic Waves in a Two-Dimensional Electron Fermi Liquid. <i>Semiconductors</i> , 2019, 53, 1367-1374.	0.5	12
7	Temperature-Dependent Magnetoresistance of Single-Layer Graphene. <i>Journal of Experimental and Theoretical Physics</i> , 2019, 129, 438-443.	0.9	1
8	Hall effect in a ballistic flow of two-dimensional interacting particles. <i>Physical Review B</i> , 2019, 100, .	3.2	20
9	Magnetoresistance of Monolayer Graphene With Short-Range Disorder. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800525.	1.5	3
10	Transverse Magnetosonic Waves and Viscoelastic Resonance in a Two-Dimensional Highly Viscous Electron Fluid. <i>Physical Review Letters</i> , 2019, 123, 236801.	7.8	32
11	Nonmonotonic magnetoresistance of a two-dimensional viscous electron-hole fluid in a confined geometry. <i>Physical Review B</i> , 2018, 97, .	3.2	33
12	Ballistic flow of two-dimensional interacting electrons. <i>Physical Review B</i> , 2018, 98, .	3.2	41
13	Magnetic resonance in a high-frequency flow of a two-dimensional viscous electron fluid. <i>Physical Review B</i> , 2018, 98, .	3.2	28
14	Counterflows in viscous electron-hole fluid. <i>Physical Review B</i> , 2018, 98, .	3.2	26
15	Effective one-band approach for the spin splittings in quantum wells. <i>Physical Review B</i> , 2017, 95, .	3.2	7
16	Magnetoresistance of compensated semimetals in confined geometries. <i>Physical Review B</i> , 2017, 95, .	3.2	43
17	Classical magnetoresistance of a two-component system induced by thermoelectric effects. <i>Semiconductors</i> , 2017, 51, 766-776.	0.5	13
18	Negative Magnetoresistance in Viscous Flow of Two-Dimensional Electrons. <i>Physical Review Letters</i> , 2016, 117, 166601.	7.8	154

#	ARTICLE	IF	CITATIONS
19	Linear magnetoresistance in compensated graphene bilayer. <i>Physical Review B</i> , 2016, 93, .	3.2	37
20	Anisotropic spin-orbit stark effect in cubic semiconductors without an inversion center. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 121, 491-498.	0.9	1
21	Magnetoresistance in Two-Component Systems. <i>Physical Review Letters</i> , 2015, 114, 156601.	7.8	75
22	Spin injection via (110)-grown semiconductor barriers. <i>Physical Review B</i> , 2014, 89, .	3.2	6
23	Strong magnetoresistance of disordered graphene. <i>Physical Review B</i> , 2013, 87, .	3.2	20
24	Anisotropy of the electron $g$ factor in quantum wells based on cubic semiconductors. <i>Semiconductors</i> , 2013, 47, 1241-1245.	0.5	7
25	Anisotropic interface contribution to the spin-orbit interaction in quantum wells. <i>JETP Letters</i> , 2013, 98, 84-87.	1.4	8
26	Generation of coherent terahertz radiation by polarized electron-hole pairs in GaAs/AlGaAs quantum wells. <i>Semiconductors</i> , 2013, 47, 1433-1437.	0.5	1
27	Influence of dynamic screening effect on coherent terahertz radiation from biased GaAs/AlGaAs quantum wells. <i>Semiconductor Science and Technology</i> , 2013, 28, 105012.	2.0	0
28	Magnetoresistance of single-layer graphene under the conditions of short-range potential scattering. <i>JETP Letters</i> , 2012, 96, 471-474.	1.4	7
29	Polarization of the terahertz radiation of uniaxially compressed $p$ germanium at the electrical breakdown of a shallow acceptor impurity. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 1055-1061.	0.9	1
30	A new form of symplectically invariant multimode uncertainty relations. <i>Journal of Russian Laser Research</i> , 2011, 32, 311-316.	0.6	0
31	Impact of resonance-state scattering on the kinetics of two-dimensional electrons. <i>Semiconductors</i> , 2010, 44, 198-205.	0.5	6
32	Tunneling hall effect. <i>JETP Letters</i> , 2010, 92, 788-792.	1.4	5
33	Magnetocrystalline anisotropy of the GaAs-type semiconductors in a strong magnetic field. <i>Physical Review B</i> , 2010, 82, .	3.2	0
34	Confinement levels in SiGe quantum wells studied by charge spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2707-2709.	0.8	1
35	Nonlinear spiral waves in a galactic disk. <i>JETP Letters</i> , 2009, 89, 219-223.	1.4	0
36	Analytical theory of the anisotropy of the conduction band in III-V semiconductors in a strong magnetic field. <i>JETP Letters</i> , 2009, 90, 102-106.	1.4	3

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37	Squeezed states in the semiclassical limit. Journal of Experimental and Theoretical Physics, 2009, 108, 571-582.	0.9	3
38	Deep-level spectroscopy studies of confinement levels in SiGe quantum wells. Journal of Applied Physics, 2009, 106, 084903.	2.5	2
39	Cascade theory of electron capture in quantum wells. Journal of Experimental and Theoretical Physics, 2008, 106, 806-818.	0.9	11
40	Anisotropy of the electron g factor in semiconductors with cubic symmetry. Journal of Experimental and Theoretical Physics, 2008, 107, 854-863.	0.9	3
41	Effect of spin-orbit coupling on the spectrum of two-dimensional electrons in a magnetic field. Semiconductors, 2007, 41, 1092-1100.	0.5	9
42	Effects of Spin-Dependent Tunneling in III-V Semiconductor Heterostructures. AIP Conference Proceedings, 2007, , .	0.4	0
43	Electric-field effect on the spin-dependent resonance tunneling. Semiconductors, 2006, 40, 1402-1408.	0.5	12
44	Spin-dependent resonant tunneling in symmetrical double-barrier structures. Physical Review B, 2005, 71, .	3.2	116