

# Andrey A Sherstobitov

## List of Publications by Year in descending order

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Version: 2024-02-01

63

papers

691

citations

623734

14

h-index

610901

24

g-index

63

all docs

63

docs citations

63

times ranked

574

citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum corrections to the conductivity in two-dimensional systems: Agreement between theory and experiment. Physical Review B, 2001, 64, .	3.2	56
2	Quantum corrections to conductivity: From weak to strong localization. Physical Review B, 2002, 65, .	3.2	50
3	Weak antilocalization in quantum wells in tilted magnetic fields. Physical Review B, 2004, 70, .	3.2	49
4	Spin-orbit splitting of valence and conduction bands in HgTe quantum wells near the Dirac point. Physical Review B, 2016, 93, .	3.2	38
5	Antilocalization and spin-orbit coupling in the hole gas in strained $\text{GaAs} \cdot \text{In}_x\text{Ga}_{1-x}\text{As} \cdot \text{GaAs}$ quantum well heterostructures. Physical Review B, 2005, 71, .	3.2	37
6	Electron-electron interaction with decreasing conductance. Physical Review B, 2003, 67, .	3.2	35
7	Two-dimensional semimetal in a wide HgTe quantum well: Magnetotransport and energy spectrum. Physical Review B, 2013, 88, .	3.2	35
8	Diffusion and ballistic contributions of the interaction correction to the conductivity of a two-dimensional electron gas. Physical Review B, 2006, 74, .	3.2	33
9	Valence band energy spectrum of HgTe quantum wells with an inverted band structure. Physical Review B, 2017, 96, .	3.2	30
10	Giant suppression of the Drude conductivity due to quantum interference in the disordered two-dimensional system $\text{GaAs} \cdot \text{In}_x\text{Ga}_{1-x}\text{As} \cdot \text{GaAs}$ . Physical Review B, 2007, 75, .	3.2	25
11	Weak antilocalization in HgTe quantum wells with inverted energy spectra. Physical Review B, 2012, 85, .	3.2	23
12	Hole transport and valence-band dispersion law in a HgTe quantum well with a normal energy spectrum. Physical Review B, 2014, 89, .	3.2	17
13	Magnetic phase transitions, metastable states, and magnetic hysteresis in the antiferromagnetic compounds $\text{Fe}_{0.5}\text{TiS}_{3.2}$ . Physical Review B, 2019, 100, .	3.2	15
14	Hopping Conductivity and Coulomb Correlations in 2D Arrays of Ge $\cdot$ Si Quantum Dots. Journal of Experimental and Theoretical Physics, 2005, 100, 722.	0.9	14
15	Role of doped layers in the dephasing of two-dimensional electrons in quantum-well structures. Physical Review B, 2001, 64, .	3.2	13
16	Hole-hole interaction in a strained $\text{In}_x\text{Ga}_{1-x}\text{As}$ two-dimensional system. Physical Review B, 2005, 72, .	3.2	13
17	Transverse negative magnetoresistance of two-dimensional structures in the presence of a strong in-plane magnetic field: Weak localization as a probe of interface roughness. Physical Review B, 2004, 70, .	3.2	11
18	Remnant magnetoresistance and virgin magnetic state in Fe0.25TiS2. Journal of Magnetism and Magnetic Materials, 2021, 519, 167480.	2.3	11

#	ARTICLE	IF	CITATIONS
19	Antilocalization of hole-hole interaction at decreasing Drude conductivity: Gated	3.2	10
20	Low magnetic field anomaly of the Hall effect in disordered two-dimensional systems: Interplay between weak localization and electron-electron interaction. Physical Review B, 2010, 82, .	3.2	10
21	Magneto-intersubband oscillations in two-dimensional systems with an energy spectrum split due to spin-orbit interaction. Physical Review B, 2020, 101, .	3.2	10
22	Nonmonotonic magnetoresistance of two-dimensional electron systems in the ballistic regime. Physical Review B, 2009, 79, .	3.2	9
23	Disorder and temperature renormalization of interaction contribution to the conductivity in two-dimensional systems. Physical Review B, 2009, 79, .	3.2	9
24	Electron mass in a HgTe quantum well: Experiment versus theory. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113742.	2.7	9
25	Interference-induced metalliclike behavior of a two-dimensional hole gas in an asymmetric $\text{GaAs}_{1-x}\text{Ga}_x\text{As}$ quantum well. Physical Review B, 2007, 75, .	3.2	8
26	Nonohmic conductivity as a probe of crossover from diffusion to hopping in two dimensions. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 42-46.	2.7	7
27	Weak antilocalization of holes in HgTe quantum wells with a normal energy spectrum. Physical Review B, 2015, 91, .	3.2	7
28	Features of Magneto-Intersubband Oscillations in HgTe Quantum Wells. JETP Letters, 2019, 110, 301-305.	1.4	7
29	Nonuniversality of the interference quantum correction to conductivity beyond the diffusion regime. Physical Review B, 2006, 73, .	3.2	6
30	Interaction correction to conductivity of Al $x$ Ga $1-x$ As. Physical Review B, 2006, 73, .	3.2	6
31	Double quantum well heterostructures near the balance. Physical Review B, 2011, 84, .	3.2	6
32	Anisotropic conductivity and weak localization in HgTe quantum wells with a normal energy spectrum. Physical Review B, 2013, 88, .	3.2	6
33	Dephasing and interwell transitions in double quantum well heterostructures. Physical Review B, 2010, 82, .	3.2	5
34	Structural and magnetic properties of ErFe <sub>2</sub> D <sub>3.1</sub> . Journal of Alloys and Compounds, 2012, 538, 79-84.	5.5	5
35	Magnetic order, phase transitions and electrical resistivity of Ho <sub>7</sub> Rh <sub>3</sub> single crystals. Journal of Alloys and Compounds, 2016, 654, 126-132.	5.5	5
36	Spin-orbit splitting of the conduction band in HgTe quantum wells: Role of different mechanisms. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 95-99.	2.7	5
37	Electron transport effects in the IR photoconductivity of InGaAs/GaAs structures with quantum dots. Technical Physics Letters, 2004, 30, 795-798.	0.7	4



#	ARTICLE		IF	CITATIONS
55	WEAK LOCALIZATION IN PATTERN 2D STRUCTURES WITH A SINGLE QUANTUM WELL. International Journal of Modern Physics B, 2009, 23, 2955-2959.		2.0	1
56	Renormalization of the contribution of the electron-electron interaction to the conductivity of two-dimensional electron systems. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 72-74.		0.6	1
57	Interference quantum correction to conductivity of Al <sub>x</sub> Ga <sub>1-x</sub> As/GaAs double quantum well heterostructures near the balance. Journal of Physics: Conference Series, 2012, 376, 012024.		0.4	1
58	Anomalous electron polarizability of HgTe quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114606.		2.7	1
59	Substitution Effects on the Magnetic Properties of Fe-Containing Chalcogenides with NiAs-Type Structures. Acta Physica Polonica A, 2018, 133, 447-449.		0.5	1
60	The metallic-like temperature dependence of the conductivity in two-dimensions. AIP Conference Proceedings, 2007, , .		0.4	0
61	Low-field anomaly of the hall effect in disordered two-dimensional systems. Semiconductors, 2010, 44, 1430-1434.		0.5	0
62	Zeeman Splitting of Electron Spectrum in HgTe Quantum Wells Near the Dirac Point. Semiconductors, 2018, 52, 519-522.		0.5	0
63	Manifestations of Quantum Confinement in Semiconductor Structures with Wide Doped Wells. Semiconductors, 2001, 35, 723.		0.5	0