Andrey A Sherstobitov

List of Publications by Year
in descending order

63	691	706676 14	685536 24
papers	citations	h-index	g-index

63	63	63	612
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remnant magnetoresistance and virgin magnetic state in Fe0.25TiS2. Journal of Magnetism and Magnetic Materials, 2021, 519, 167480.	1.0	11
2	Anomalous electron polarizability of HgTe quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114606.	1.3	1
3	Electron mass in a HgTe quantum well: Experiment versus theory. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113742.	1.3	9
4	Anisotropy of the in-plane g -factor of electrons in HgTe quantum wells. Physical Review B, 2020, 101, .	1.1	3
5	Magneto-intersubband oscillations in two-dimensional systems with an energy spectrum split due to spin-orbit interaction. Physical Review B, 2020, 101, .	1.1	10
6	Density of states measurements for the heavy subband of holes in HgTe quantum wells. Physical Review B, 2020, 101, .	1.1	3
7	Magnetic phase transitions, metastable states, and magnetic hysteresis in the antiferromagnetic compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>TiS</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub><mml:mi>Se</mml:mi><mml:msub><mml:mrow /><mml:mi>y</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	15
8	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.	1.3	5
9	Features of Magneto-Intersubband Oscillations in HgTe Quantum Wells. JETP Letters, 2019, 110, 301-305.	0.4	7
10	Zeeman Splitting of Electron Spectrum in HgTe Quantum Wells Near the Dirac Point. Semiconductors, 2018, 52, 519-522.	0.2	0
11	Substitution Effects on the Magnetic Properties of Fe-Containing Chalcogenides with NiAs-Type Structures. Acta Physica Polonica A, 2018, 133, 447-449.	0.2	1
12	Zeeman splitting of conduction band in HgTe quantum wells near the Dirac point. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 203-208.	1.3	4
13	Valence band energy spectrum of HgTe quantum wells with an inverted band structure. Physical Review B, 2017, 96, .	1.1	30
14	Spin-orbit splitting of valence and conduction bands in HgTe quantum wells near the Dirac point. Physical Review B, 2016, 93, .	1.1	38
15	Zeeman splitting of the conduction band of HgTe quantum wells with a semimetallic spectrum. JETP Letters, 2016, 104, 241-247.	0.4	4
16	Percolation and the electronâ€“electron interaction in an array of antidots. JETP Letters, 2016, 104, 473-478.	0.4	3
17	Magnetic order, phase transitions and electrical resistivity of Ho7Rh3 single crystals. Journal of Alloys and Compounds, 2016, 654, 126-132.	2.8	5
18	Weak antilocalization of holes in HgTe quantum wells with a normal energy spectrum. Physical Review B, 2015, 91, .	1.1	7

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19	Energy spectrum and transport in narrow HgTe quantum wells. Semiconductors, 2015, 49, 39-43.	0.2	2
20	Conductance of a lateral pâ€”n junction in two-dimensional HgTe structures with an inverted spectrum: The role of edge states. JETP Letters, 2015, 101, 469-473.	0.4	3
21	Hole transport and valence-band dispersion law in a HgTe quantum well with a normal energy spectrum. Physical Review B, 2014, 89, .	1.1	17
22	Two-dimensional semimetal in wide HgTe quantum wells: Charge-carrier energy spectrum and magnetotransport. Semiconductors, 2013, 47, 1562-1566.	0.2	3
23	Anisotropic conductivity and weak localization in HgTe quantum wells with a normal energy spectrum. Physical Review B, 2013, 88, .	1.1	6
24	Two-dimensional semimetal in a wide HgTe quantum well: Magnetotransport and energy spectrum. Physical Review B, 2013, 88, .	1.1	35
25	Interference quantum correction to conductivity of Al_xGa_{1â^'x}As/GaAs double quantum well heterostructures near the balance. Journal of Physics: Conference Series, 2012, 376, 012024.	0.3	1
26	Interaction correction to the conductivity of two-dimensional electron gas in InxGa1â^'xAs/InP quantum well structure with strong spin-orbit coupling. Physical Review B, 2012, 85, .	1.1	4
27	Structural and magnetic properties of ErFe2D3.1. Journal of Alloys and Compounds, 2012, 538, 79-84.	2.8	5
28	Weak antilocalization in HgTe quantum wells with inverted energy spectra. Physical Review B, 2012, 85, .	1.1	23
29	Energy relaxation rate of the two-dimensional hole gas in a GaAs/InGaAs/GaAs quantum well. Physical Review B, 2011, 83, .	1.1	4
30	Interaction correction to conductivity of Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>As/GaAs double quantum well heterostructures near the balance. Physical Review B, 2011, 84, .	1.1	6
31	Low-field anomaly of the hall effect in disordered two-dimensional systems. Semiconductors, 2010, 44, 1430-1434.	0.2	0
32	Renormalization of the contribution of the electronâ€”electron interaction to the conductivity of two-dimensional electron systems. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 72-74.	0.1	1
33	g-Factor of low mobility 2D GaAs electron gas as determined from high magnetic field experiments. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 960-963.	1.3	3
34	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, .	1.1	10
35	Dephasing and interwell transitions in double quantum well heterostructures. Physical Review B, 2010, 82, .	1.1	5
36	Nonmonotonic magnetoresistance of two-dimensional electron systems in the ballistic regime. Physical Review B, 2009, 79, .	1.1	9

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37	WEAK LOCALIZATION IN PATTERN 2D STRUCTURES WITH A SINGLE QUANTUM WELL. International Journal of Modern Physics B, 2009, 23, 2955-2959.	1.0	1
38	Disorder and temperature renormalization of interaction contribution to the conductivity in two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>In</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> systems. Physical Review B, 2009, 79, .	1.1	9
39	Weak localization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Al</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2008, 78, .	1.1	2
40	INTERFERENCE INDUCED MAGNETORESISTANCE BEYOND THE DIFFUSION REGIME IN 2D SYSTEMS WITH SPIN-ORBIT COUPLING. International Journal of Modern Physics B, 2007, 21, 1669-1673.	1.0	3
41	Renormalization of hole-hole interaction at decreasing Drude conductivity: Ge/Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ga</mml:mi><mml:mi mathvariant="normal">As</mml:mi><mml:mo>â^•</mml:mo><mml:msub><mml:mi mathvariant="normal">In</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow>	1.1	10
42	Giant suppression of the Drude conductivity due to quantum interference in the disordered two-dimensional systemGaAsâ^•InxGa1â^’xAsâ^•GaAs. Physical Review B, 2007, 75, .	1.1	25
43	Interference-induced metalliclike behavior of a two-dimensional hole gas in an asymmetricGaAsâ^•InxGa1â^’xAsâ^•GaAsquantum well. Physical Review B, 2007, 75, .	1.1	8
44	The metallic-like temperature dependence of the conductivity in two-dimensions. AIP Conference Proceedings, 2007, , .	0.3	0
45	Hopping magnetoresistance in two-dimensional arrays of Ge/Si quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 296-299.	0.8	4
46	Nonuniversality of the interference quantum correction to conductivity beyond the diffusion regime. Physical Review B, 2006, 73, .	1.1	6
47	Diffusion and ballistic contributions of the interaction correction to the conductivity of a two-dimensional electron gas. Physical Review B, 2006, 74, .	1.1	33
48	Nonohmic Conductance and Mechanisms of Energy Relaxation in 2D Electron Gas in GaAsâ^•InGaAsâ^•GaAs Heterostructures. Semiconductors, 2005, 39, 221.	0.2	1
49	Hopping Conductivity and Coulomb Correlations in 2D Arrays of Geâ^•Si Quantum Dots. Journal of Experimental and Theoretical Physics, 2005, 100, 722.	0.2	14
50	Quantum Corrections to the Conductivity of a Natural Nd[sub 2 â€“][sub x]Ce[sub x]CuO[sub 4] Superlattice. Physics of the Solid State, 2005, 47, 1972.	0.2	3
51	Hole-hole interaction in a strainedInxGa1â^’xAstwo-dimensional system. Physical Review B, 2005, 72, .	1.1	13
52	Antilocalization and spin-orbit coupling in the hole gas in strainedGaAsâ^•InxGa1â^’xAsâ^•GaAsquantum well heterostructures. Physical Review B, 2005, 71, .	1.1	37
53	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, .	1.1	11
54	Electron transport effects in the IR photoconductivity of InGaAs/GaAs structures with quantum dots. Technical Physics Letters, 2004, 30, 795-798.	0.2	4

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55	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.	1.3	7
56	Weak antilocalization in quantum wells in tilted magnetic fields. Physical Review B, 2004, 70, .	1.1	49
57	Nonohmic conductivity under transition from weak to strong localization in GaAs/InGaAs structures with a two-dimensional electron gas. Semiconductors, 2003, 37, 705-709.	0.2	2
58	Electron-electron interaction with decreasing conductance. Physical Review B, 2003, 67, .	1.1	35
59	<title>Conductivity of disordered 2D systems: from weak to strong localization</title>. , 2002, , .		2
60	Quantum corrections to conductivity: From weak to strong localization. Physical Review B, 2002, 65, .	1.1	50
61	Quantum corrections to the conductivity in two-dimensional systems: Agreement between theory and experiment. Physical Review B, 2001, 64, .	1.1	56
62	Role of doped layers in the dephasing of two-dimensional electrons in quantum-well structures. Physical Review B, 2001, 64, .	1.1	13
63	Manifestations of Quantum Confinement in Semiconductor Structures with Wide Doped Wells. Semiconductors, 2001, 35, 723.	0.2	0