List of Publications by Year in descending order

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		279798	315739
121	1,948	23	38
papers	citations	h-index	g-index
122	122	122	1000
all docs	docs citations	times ranked	citing authors

CENNADY CUSEV

#	Article	lF	CITATIONS
1	Transport through the network of topological channels in HgTe based quantum well. 2D Materials, 2022, 9, 015021.	4.4	5
2	Engineering topological phases in triple HgTe/CdTe quantum wells. Scientific Reports, 2022, 12, 2617.	3.3	3
3	Diffusion of Photoexcited Holes in a Viscous Electron Fluid. Physical Review Letters, 2022, 128, 136801.	7.8	9
4	Quantum Transport of Dirac Fermions in HgTe Gapless Quantum Wells. Nanomaterials, 2022, 12, 2047.	4.1	2
5	Thermo emf in a two-dimensional electron-hole system in HgTe quantum wells in the presence of magnetic field. The role of the diffusive and the phonon-drag contributions. Low Temperature Physics, 2021, 47, 2-6.	0.6	1
6	Multiple crossings of Landau levels of two-dimensional fermions in double HgTe quantum wells. Physical Review B, 2021, 103, .	3.2	3
7	Viscous magnetotransport and Gurzhi effect in bilayer electron system. Physical Review B, 2021, 103, .	3.2	20
8	Magnetohydrodynamics and electron-electron interaction of massless Dirac fermions. Physical Review Research, 2021, 3, .	3.6	1
9	Thermoelectric Transport in a Three-Dimensional HgTe Topological Insulator. Nanomaterials, 2021, 11, 3364.	4.1	1
10	Electrical control of spin relaxation anisotropy during drift transport in a two-dimensional electron gas. Physical Review B, 2020, 102, .	3.2	6
11	Manifestations of classical size effect and electronic viscosity in the magnetoresistance of narrow two-dimensional conductors: Theory and experiment. Physical Review B, 2020, 101, .	3.2	21
12	Microwave Photoresistance of a Two-Dimensional Topological Insulator in a HgTe Quantum Well. JETP Letters, 2020, 111, 121-125.	1.4	6
13	Stokes flow around an obstacle in viscous two-dimensional electron liquid. Scientific Reports, 2020, 10, 7860.	3.3	34
14	Multiperiodic Spin Precession of the Optically Induced Spin Polarization in \$\${hbox {Al}}_{x}{hbox {Ga}}_{1-x}{hbox {As/AlAs}}\$\$ Single Quantum Well. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 549-555.	1.5	0
15	Two-dimensional topological insulator state in double HgTe quantum well. Physical Review B, 2020, 101, .	3.2	13
16	Experimental analysis of the spin–orbit coupling dependence on the drift velocity of a spin packet. AIP Advances, 2020, 10, .	1.3	2
17	Topological insulators based on HgTe. Physics-Uspekhi, 2020, 63, 629-647.	2.2	18
18	Phonon drag thermoelectric phenomena in mesoscopic two-dimensional conductors: Current stripes, large Nernst effect, and influence of electron-electron interaction. Physical Review B, 2020, 102, .	3.2	3

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19	Mesoscopic transport in two-dimensional topological insulators. Solid State Communications, 2019, 302, 113701.	1.9	17
20	Electronic thermal conductivity in 2D topological insulator in a HgTe quantum well. Scientific Reports, 2019, 9, 831.	3.3	2
21	Thermoelectric transport in two-dimensional topological insulator state based on HgTe quantum well. 2D Materials, 2019, 6, 014001.	4.4	6
22	Viscous electron flow in mesoscopic two-dimensional electron gas. AIP Advances, 2018, 8, .	1.3	72
23	Thermopower of a Two-Dimensional Semimetal in a HgTe Quantum Well. JETP Letters, 2018, 107, 789-793.	1.4	6
24	Viscous transport and Hall viscosity in a two-dimensional electron system. Physical Review B, 2018, 98,	3.2	62
25	Vorticity-induced negative nonlocal resistance in a viscous two-dimensional electron system. Physical Review B, 2018, 97, .	3.2	55
26	Robustness of spin polarization against temperature in multilayer structure: Triple quantum well. Journal of Applied Physics, 2018, 123, 214306.	2.5	1
27	Tailoring multilayer quantum wells for spin devices. Pramana - Journal of Physics, 2018, 91, 1.	1.8	5
28	Large anisotropic spin relaxation time of exciton bound to donor states in triple quantum wells. Journal of Applied Physics, 2017, 121, .	2.5	7
29	Giant microwave-induced B -periodic magnetoresistance oscillations in a two-dimensional electron gas with a bridged-gate tunnel point contact. Physical Review B, 2017, 95, .	3.2	0
30	Robust helical edge transport at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ν2</mml:mi><mml:mo>=quantum Hall state. Physical Review B, 2017, 96, .</mml:mo></mml:mrow></mml:math 	no 3.2 mml	:mn120
31	Gate control of the spin mobility through the modification of the spin-orbit interaction in two-dimensional systems. Physical Review B, 2017, 95, .	3.2	11
32	Macroscopic transport of a current-induced spin polarization. Journal of Physics: Conference Series, 2017, 864, 012060.	0.4	3
33	Low field magnetoresistance in a 2D topological insulator based on wide HgTe quantum well. Journal of Physics Condensed Matter, 2016, 28, 345801.	1.8	2
34	Long-lived nanosecond spin coherence in high-mobility 2DEGs confined in double and triple quantum wells. Journal of Applied Physics, 2016, 119, 215701.	2.5	11
35	Macroscopic transverse drift of long current-induced spin coherence in two-dimensional electron gases. Physical Review B, 2016, 94, .	3.2	15
36	Magnetocapacitance oscillations and thermoelectric effect in a two-dimensional electron gas irradiated by microwaves. Physical Review B, 2016, 94, .	3.2	5

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37	Magnetophonon oscillations of thermoelectric power and combined resonance in two-subband electron systems. Physical Review B, 2016, 94, .	3.2	2
38	Microwave-Induced Magneto-Oscillations and Signatures of Zero-Resistance States in Phonon-Drag Voltage in Two-Dimensional Electron Systems. Physical Review Letters, 2015, 115, 206801.	7.8	18
39	Scaling of local and nonlocal resistances in a 2D topological insulator based on HgTe quantum well. 2D Materials, 2015, 2, 044015.	4.4	9
40	Giant microwave photo-conductance of a tunnel point contact with a bridged gate. Applied Physics Letters, 2015, 107, .	3.3	18
41	Persistence of a Two-Dimensional Topological Insulator State in Wide HgTe Quantum Wells. Physical Review Letters, 2015, 114, 126802.	7.8	63
42	Resonant optical control of the electrically induced spin polarization by periodic excitation. Physical Review B, 2014, 90, .	3.2	11
43	Spectroscopic evidence of quantum Hall interlayer tunneling gap collapse caused by tilted magnetic field in a GaAs/AlGaAs triple quantum well. Physical Review B, 2014, 89, .	3.2	9
44	Microwave response of a ballistic quantum dot. JETP Letters, 2014, 98, 713-716.	1.4	5
45	Microwave-induced nonlocal transport in a two-dimensional electron system. Physical Review B, 2014, 89, .	3.2	4
46	Temperature dependence of the resistance of a two-dimensional topological insulator in a HgTe quantum well. Physical Review B, 2014, 89, .	3.2	63
47	Observation of the intrinsic spin Hall effect in a two-dimensional electron gas. Physical Review B, Q013, 88, Hall Effect in < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	3.2	33
48	display="inline"> <mml:mi>n</mml:mi> <mml:mtext mathvariant="normal">â^`<mml:mi>p</mml:mi><mml:mtext mathvariant="normal">â^`<mml:mi>n</mml:mi>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"</mml:math </mml:mtext </mml:mtext 	7.8	18
49	display="inline"> <mml:mi>n</mml:mi> -2D Topological Insulator- <mml:math ymlns:mml_"ht Transition from insulating to metallic phase induced by in-plane magnetic field in HgTe quantum wells. Physical Review B, 2013, 88, .</mml:math 	3.2	22
50	Linear magnetoresistance in HgTe quantum wells. Physical Review B, 2013, 87, .	3.2	41
51	Shubnikov-de Haas effect in tilted magnetic fields in wide quantum well. Journal of Physics: Conference Series, 2013, 456, 012025.	0.4	0
52	Unconventional Hall effect near charge neutrality point in a two-dimensional electron-hole system. Physical Review B, 2012, 86, .	3.2	15
53	Quantum oscillations of spin polarization in a GaAs/AlGaAs double quantum well. Physical Review B, 2012, 86, .	3.2	7
54	Circularly Polarized Photoluminescence as a Probe of Density of States in < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mi>GaAs < / mml:mi> < mml:mo> / < mml:mi>AlGaAs < / mml:mi> Quantu Hall Bilayers. Physical Review Letters, 2012, 109, 046802.	7.8 JM	9

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55	Two-dimensional semimetal-insulator transition in HgTe-based quantum wells induced by a longitudinal magnetic field. JETP Letters, 2012, 96, 251-254.	1.4	1
56	Magnetic field induced charge redistribution in artificially disordered quantum Hall superlattices. Europhysics Letters, 2012, 97, 17010.	2.0	4
57	Nonlocal Transport Near Charge Neutrality Point in a Two-Dimensional Electron-Hole System. Physical Review Letters, 2012, 108, 226804.	7.8	34
58	Transport in disordered two-dimensional topological insulators. Physical Review B, 2011, 84, .	3.2	116
59	Zero-resistance states in bilayer electron systems induced by microwave irradiation. Journal of Physics: Conference Series, 2011, 334, 012014.	0.4	0
60	Emergent fractional quantum Hall effect at even denominator <i>ν</i> = 3/2 in a triple quantum well in tilted magnetic fields. Journal of Physics: Conference Series, 2011, 334, 012026.	0.4	1
61	Linear and nonlinear transport in a small charge-tunable open quantum ring. Physical Review B, 2011, 84, .	3.2	7
62	Microwave-induced Hall resistance in bilayer electron systems. Physical Review B, 2011, 83, .	3.2	5
63	Evidence for zero-differential resistance states in electronic bilayers. Physical Review B, 2011, 83, .	3.2	14
64	Nonlinear transport phenomena in a two-subband system. Physical Review B, 2011, 84, .	3.2	20
65	Magnetotransport in a wide parabolic well superimposed with a superlattice. Journal of Applied Physics, 2011, 109, 102403.	2.5	0
66	Excitons in undoped AlGaAs/GaAs wide parabolic quantum wells. Journal of Physics: Conference Series, 2010, 210, 012052.	0.4	5
67	Weak antilocalization in HgTe quantum wells near a topological transition. JETP Letters, 2010, 91, 347-350.	1.4	24
68	Quantum Hall Effect near the Charge Neutrality Point in a Two-Dimensional Electron-Hole System. Physical Review Letters, 2010, 104, 166401.	7.8	46
69	Resistively detected NMR of the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>î½</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn>Hall state: A tilted magnetic field study. Physical Review B, 2010, 81, .</mml:mrow></mml:math>	row ≫t∳mml	:matth>quant
70	Crossover between distinct mechanisms of microwave photoresistance in bilayer systems. Physical Review B, 2010, 81, .	3.2	29
71	Magnetic-field-induced transition in a wide parabolic well superimposed with a superlattice. Physical Review B, 2010, 81, .	3.2	10
72	Microwave Zero-Resistance States in a Bilayer Electron System. Physical Review Letters, 2010, 105, 026804.	7.8	62

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73	Thermally activated intersubband scattering and oscillating magnetoresistance in quantum wells. Physical Review B, 2010, 82, .	3.2	15
74	Classical and quantum magnetoresistance in a two-subband electron system. Physical Review B, 2009, 80, .	3.2	20
75	High-order fractional microwave-induced resistance oscillations in two-dimensional systems. Physical Review B, 2009, 80, .	3.2	16
76	Emergent and reentrant fractional quantum Hall effect in trilayer systems in a tilted magnetic field. Physical Review B, 2009, 80, .	3.2	7
77	Magnetoresistance oscillations in multilayer systems: Triple quantum wells. Physical Review B, 2009, 80, .	3.2	35
78	QUANTUM HALL FERROMAGNET IN A DOUBLE WELL WITH VANISHING g -FACTOR. International Journal of Modern Physics B, 2009, 23, 2933-2937.	2.0	2
79	MAGNETORESISTANCE OSCILLATIONS IN DOUBLE QUANTUM WELLS UNDER MICROWAVE IRRADIATION. International Journal of Modern Physics B, 2009, 23, 2943-2947.	2.0	Ο
80	TRANSPORT IN A BILAYER SYSTEM AT HIGH LANDAU FILLING FACTOR. International Journal of Modern Physics B, 2009, 23, 2603-2606.	2.0	0
81	Nonlinear transport and oscillating magnetoresistance in double quantum wells. Physical Review B, 2009, 80, .	3.2	29
82	Magnetic-field asymmetry of nonlinear transport in a small ring. Europhysics Letters, 2009, 88, 47007.	2.0	7
83	Resonance oscillations of magnetoresistance in double quantum wells. Physical Review B, 2008, 77, .	3.2	61
84	Interference oscillations of microwave photoresistance in double quantum wells. Physical Review B, 2008, 78, .	3.2	74
85	Interlayer interference in double wells in a tilted magnetic field. Physical Review B, 2008, 78, .	3.2	15
86	Anomalous dephasing scattering rate of two-dimensional electrons in double quantum well structures. Physical Review B, 2008, 78, .	3.2	13
87	Electron dephasing scattering rate in two-dimensional GaAs/InGaAs heterostructures with embedded InAs quantum dots. Journal of Applied Physics, 2008, 104, 073723.	2.5	2
88	Enhanced Hall slope in wideAlxGaxâ^'1Asparabolic wells. Physical Review B, 2007, 75, .	3.2	5
89	Reentrant Quantum Hall Effect and Anisotropic Transport in a Bilayer System at High Filling Factors. Physical Review Letters, 2007, 99, 126804.	7.8	15
90	Many-body effects in wide parabolic AlGaAs quantum wells. Journal of Applied Physics, 2007, 102, 093715.	2.5	7

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91	Landau-level crossing in two-subband systems in a tilted magnetic field. Physical Review B, 2007, 76, .	3.2	21
92	Spin Polarization by Tilted Magnetic Field in Wide Ga1â^'xAlxAs Parabolic Quantum Wells. Journal of Superconductivity and Novel Magnetism, 2005, 18, 169-173.	0.5	3
93	Spin-dependent Hall effect in a parabolic well with a quasi-three-dimensional electron gas. Physical Review B, 2005, 71, .	3.2	5
94	Electron spin resonance in a wide parabolic quantum well. Physical Review B, 2005, 72, .	3.2	8
95	High mobility of a three-dimensional hole gas in parabolic quantum wells grown on GaAs(311)A substrates. Journal of Applied Physics, 2005, 97, 076107.	2.5	10
96	Negative quasiclassical magnetoresistance in a high density two-dimensional electron gas in aAlxGa1â^'xNâ^•GaNheterostructure. Physical Review B, 2005, 71, .	3.2	31
97	Large positive magnetoresistance in a high-mobility two-dimensional electron gas: Interplay of short- and long-range disorder. Physical Review B, 2004, 70, .	3.2	32
98	Negative linear classical magnetoresistance in a corrugated two-dimensional electron gas. Physical Review B, 2004, 70, .	3.2	13
99	Anomalous Hall effect in a wide parabolic well. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, S181-S187.	0.8	1
100	Quantum Hall ferromagnet in a parabolic well. Physical Review B, 2003, 67, .	3.2	24
101	Commensurability oscillations in the antidot lattice in a quasi-three-dimensional electron gas. Physical Review B, 2003, 67, .	3.2	2
102	Chaotic electron dynamics in antidot lattice subjected to strong in-plane magnetic field. Physical Review B, 2002, 66, .	3.2	10
103	Quantum interference in intentionally disordered dopedGaAs/AlxGa1â~'xAssuperlattices. Physical Review B, 2002, 66, .	3.2	19
104	Conductivity corrections in a strongly correlated and disordered two-dimensional electron system. Physical Review B, 2002, 65, .	3.2	12
105	Magnetotransport of a quasi-three-dimensional electron gas in the lowest Landau level. Physical Review B, 2002, 65, .	3.2	25
106	Coexistence of a two- and three-dimensional Landau states in a wide parabolic quantum well. Physical Review B, 2001, 64, .	3.2	19
107	Quasiclassical negative magnetoresistance of a two-dimensional electron gas in a random magnetic field. Physical Review B, 2001, 65, .	3.2	23
108	Vertical longitudinal magnetoresistance of semiconductor superlattices. Physical Review B, 2001, 63, .	3.2	5

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109	Nonzero Hall resistance in a spatially fluctuating magnetic field with zero mean. Springer Proceedings in Physics, 2001, , 817-818.	0.2	0
110	Temperature dependence of the Aharonov-Bohm oscillations and the energy spectrum in a single-mode ballistic ring. Physical Review B, 2000, 62, 2624-2629.	3.2	36
111	Hall effect in a spatially fluctuating magnetic field with zero mean. Physical Review B, 2000, 61, 5505-5510.	3.2	15
112	Shubnikov-de Haas oscillations in a nonplanar two-dimensional electron gas. Semiconductor Science and Technology, 1999, 14, 1114-1118.	2.0	5
113	Single-particle relaxation time in a spatially fluctuating magnetic field. Physical Review B, 1999, 59, 5711-5716.	3.2	18
114	Percolation network in a smooth artificial potential. Physical Review B, 1998, 58, 4636-4643.	3.2	6
115	Coulomb-like mesoscopic fluctuations in a two-dimensional electron gas near filling factorν=12. Physical Review B, 1997, 56, 12112-12115.	3.2	3
116	Chaotic electron dynamics around a single elliptically shaped antidot. Physical Review B, 1996, 54, 13859-13867.	3.2	6
117	Quantum interference effects in a strongly fluctuating magnetic field. Physical Review B, 1996, 53, 13641-13644.	3.2	12
118	Negative differential magnetoresistance and commensurability oscillations of two-dimensional electrons in a disordered array of antidots. Journal of Physics Condensed Matter, 1994, 6, 73-78.	1.8	30
119	Magneto-oscillations in a two-dimensional electron gas with a Penrose lattice of artificial scatterers. Physical Review B, 1993, 47, 9928-9930.	3.2	17
120	Magnetoresistance oscillations in a two-dimensional electron gas with a periodic array of scatters. Journal of Physics Condensed Matter, 1992, 4, L269-L274.	1.8	23
121	Spin relaxation time in a two-dimensional hole gas. Journal of Physics C: Solid State Physics, 1984, 17, L683-L688.	1.5	11