

# Vladimir Umansky

## List of Publications by Year in descending order

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219  
papers

12,753  
citations

22153

59  
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110  
g-index

221  
all docs

221  
docs citations

221  
times ranked

5714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of a fractional charge. Nature, 1997, 389, 162-164.	27.8	738
2	Zero-resistance states induced by electromagnetic-wave excitation in GaAs/AlGaAs heterostructures. Nature, 2002, 420, 646-650.	27.8	616
3	Phase measurement in a quantum dot via a double-slit interference experiment. Nature, 1997, 385, 417-420.	27.8	533
4	Dephasing time of GaAs electron-spin qubits coupled to a nuclear bath exceeding 200 $\mu$ s. Nature Physics, 2011, 7, 109-113.	16.7	501
5	Demonstration of Entanglement of Electrostatically Coupled Singlet-Triplet Qubits. Science, 2012, 336, 202-205.	12.6	469
6	Dephasing in electron interference by a "which-path" detector. Nature, 1998, 391, 871-874.	27.8	449
7	Low-Temperature Fate of the 0.7 Structure in a Point Contact: A Kondo-like Correlated State in an Open System. Physical Review Letters, 2002, 88, 226805.	7.8	363
8	Universal quantum control of two-electron spin quantum bits using dynamic nuclear polarization. Nature Physics, 2009, 5, 903-908.	16.7	350
9	Observation of a quarter of an electron charge at the $\nu = 5/2$ quantum Hall state. Nature, 2008, 452, 829-834.	27.8	305
10	Charge Noise Spectroscopy Using Coherent Exchange Oscillations in a Singlet-Triplet Qubit. Physical Review Letters, 2013, 110, 146804.	7.8	289
11	Interference between two indistinguishable electrons from independent sources. Nature, 2007, 448, 333-337.	27.8	268
12	Experimental Realization of a Quantum Spin Pump. Physical Review Letters, 2003, 91, 258301.	7.8	264
13	Observation of half-integer thermal Hall conductance. Nature, 2018, 559, 205-210.	27.8	249
14	Enhancing the Coherence of a Spin Qubit by Operating it as a Feedback Loop That Controls its Nuclear Spin Bath. Physical Review Letters, 2010, 105, 216803.	7.8	225
15	Evidence of Hofstadter's Fractal Energy Spectrum in the Quantized Hall Conductance. Physical Review Letters, 2001, 86, 147-150.	7.8	218
16	Unexpected Behavior in a Two-Path Electron Interferometer. Physical Review Letters, 2006, 96, 016804.	7.8	213
17	Circular-Polarization-Dependent Study of the Microwave Photoconductivity in a Two-Dimensional Electron System. Physical Review Letters, 2005, 95, 116804.	7.8	186
18	Observation of neutral modes in the fractional quantum Hall regime. Nature, 2010, 466, 585-590.	27.8	180

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19	The microscopic nature of localization in the quantum Hall effect. <i>Nature</i> , 2004, 427, 328-332.	27.8	178
20	MBE growth of ultra-low disorder 2DEG with mobility exceeding $35\text{--}106\text{cm}^2/\text{Vs}$ . <i>Journal of Crystal Growth</i> , 2009, 311, 1658-1661.	1.5	175
21	Demonstration of a $1/4$ -Cycle Phase Shift in the Radiation-Induced Oscillatory Magnetoresistance in GaAs/AlGaAs Devices. <i>Physical Review Letters</i> , 2004, 92, 146801.	7.8	170
22	Suppressing qubit dephasing using real-time Hamiltonian estimation. <i>Nature Communications</i> , 2014, 5, 5156.	12.8	150
23	Observed quantization of anyonic heat flow. <i>Nature</i> , 2017, 545, 75-79.	27.8	146
24	Observation of quasiparticles with one-fifth of an electron's charge. <i>Nature</i> , 1999, 399, 238-241.	27.8	144
25	A Gate-Controlled Bidirectional Spin Filter Using Quantum Coherence. <i>Science</i> , 2003, 299, 679-682.	12.6	143
26	Crossover from "mesoscopic" to "universal" phase for electron transmission in quantum dots. <i>Nature</i> , 2005, 436, 529-533.	27.8	139
27	Extremely high-mobility two dimensional electron gas: Evaluation of scattering mechanisms. <i>Applied Physics Letters</i> , 1997, 71, 683-685.	3.3	136
28	Localization of Fractionally Charged Quasi-Particles. <i>Science</i> , 2004, 305, 980-983.	12.6	120
29	Detection of a Landau Band-Coupling-Induced Rearrangement of the Hofstadter Butterfly. <i>Physical Review Letters</i> , 2004, 92, 256801.	7.8	116
30	Detecting Spin-Polarized Currents in Ballistic Nanostructures. <i>Physical Review Letters</i> , 2002, 89, 266602.	7.8	111
31	Radiation-induced oscillatory magnetoresistance as a sensitive probe of the zero-field spin-splitting in high-mobility GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As devices. <i>Physical Review B</i> , 2004, 69, .	3.2	110
32	Entanglement, Dephasing, and Phase Recovery via Cross-Correlation Measurements of Electrons. <i>Physical Review Letters</i> , 2007, 98, 036803.	7.8	110
33	Role of interactions in an electronic Fabry-Pérot interferometer operating in the quantum Hall effect regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5276-5281.	7.1	106
34	Spin and Polarized Current from Coulomb Blockaded Quantum Dots. <i>Physical Review Letters</i> , 2003, 91, 016802.	7.8	103
35	Dispersion of the Excitations of Fractional Quantum Hall States. <i>Science</i> , 2009, 324, 1044-1047.	12.6	102
36	Radiation-induced oscillatory Hall effect in high-mobility GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As devices. <i>Physical Review B</i> , 2004, 69, .	3.2	96

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37	Universal Fermi liquid crossover and quantum criticality in a mesoscopic system. Nature, 2015, 526, 237-240.	27.8	87
38	Controlled dephasing of electrons by non-gaussian shot noise. Nature Physics, 2007, 3, 534-537.	16.7	86
39	Unexpected Periodicity in an Electronic Double Slit Interference Experiment. Physical Review Letters, 1994, 73, 3149-3152.	7.8	83
40	Scattering of Bunched Fractionally Charged Quasiparticles. Physical Review Letters, 2003, 91, 216804.	7.8	83
41	Shot Noise and Charge at the $\nu = 2$ Composite Fractional Quantum Hall State. Physical Review Letters, 2009, 103, 236802.	7.8	83
42	Radiation-induced zero-resistance states in GaAs/AlGaAs heterostructures: $\nu = 1$ Voltage-current characteristics and intensity dependence at the resistance minima. Physical Review B, 2004, 70, .	3.2	79
43	Two-electron bunching in transport through a quantum dot induced by Kondo correlations. Physical Review B, 2008, 77, .	3.2	77
44	Proliferation of neutral modes in fractional quantum Hall states. Nature Communications, 2014, 5, 4067.	12.8	77
45	Nonlinear growth in the amplitude of radiation-induced magnetoresistance oscillations. Physical Review B, 2010, 81, .	3.2	76
46	Plasmonic terahertz detectors based on a high-electron mobility GaAs/AlGaAs heterostructure. Journal of Applied Physics, 2014, 115, 214503.	2.5	72
47	Exciton Liquid in Coupled Quantum Wells. Science, 2014, 343, 55-57.	12.6	71
48	Fermiology of Two-Dimensional Lateral Superlattices. Physical Review Letters, 1999, 83, 2234-2237.	7.8	68
49	Phase study of oscillatory resistances in microwave-irradiated- and dark-GaAs/AlGaAs devices: Indications of an unfamiliar class of the integral quantum Hall effect. Physical Review B, 2009, 79, .	3.2	68
50	Charge Frustration in a Triangular Triple Quantum Dot. Physical Review Letters, 2013, 110, 046803.	7.8	68
51	Charged exciton dynamics in GaAs quantum wells. Physical Review B, 1998, 58, 12637-12640.	3.2	66
52	Charge Fractionalization in the Integer Quantum Hall Effect. Physical Review Letters, 2014, 112, 166801.	7.8	66
53	NMR Probing of the Spin Polarization of the $\nu = 5/2$ Quantum Hall State. Physical Review Letters, 2012, 108, 066810.	7.8	64
54	Density dependence of the $\nu = 1/2$ energy gap: Experiment and theory. Physical Review B, 2010, 81, .	3.2	63

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55	Measurement of Phase and Magnitude of the Reflection Coefficient of a Quantum Dot. Physical Review Letters, 1996, 77, 4664-4667.	7.8	62
56	Microwave photoresponse in the two-dimensional electron system caused by intra-Landau-level transitions. Physical Review B, 2005, 71, .	3.2	61
57	Characterizing Neutral Modes of Fractional States in the Second Landau Level. Physical Review Letters, 2011, 107, 036805.	7.8	61
58	Molecular control of a GaAs transistor. Chemical Physics Letters, 1998, 283, 301-306.	2.6	60
59	Vortex nucleation in submicrometer ferromagnetic disks. Applied Physics Letters, 2003, 82, 4110-4112.	3.3	59
60	Optical Probing of the Spin Polarization of the $\nu = 1/2$ Hall State. Physical Review Letters, 2010, 105, 096801.	7.8	59
61	Quenching of dynamic nuclear polarization by spin-orbit coupling in GaAs quantum dots. Nature Communications, 2015, 6, 7682.	12.8	59
62	Edge reconstruction in fractional quantum Hall states. Nature Physics, 2017, 13, 491-496.	16.7	59
63	Mott Transition of Excitons in Coupled Quantum Wells. Physical Review Letters, 2008, 100, 256402.	7.8	56
64	Dependence of the tunneling quasiparticle charge determined via shot noise measurements on the tunneling barrier and energetics. Physical Review B, 2010, 81, .	3.2	54
65	Commensurate Composite Fermions in Weak Periodic Electrostatic Potentials: Direct Evidence of a Periodic Effective Magnetic Field. Physical Review Letters, 1999, 83, 2620-2623.	7.8	52
66	Evolution of Quasiparticle Charge in the Fractional Quantum Hall Regime. Physical Review Letters, 2000, 85, 3918-3921.	7.8	52
67	Upstream Neutral Modes in the Fractional Quantum Hall Effect Regime: Heat Waves or Coherent Dipoles. Physical Review Letters, 2012, 108, 226801.	7.8	51
68	Quantum mechanical complementarity probed in a closed-loop Aharonov-Bohm interferometer. Nature Physics, 2008, 4, 205-209.	16.7	47
69	Vortex pinning at individual defects in magnetic nanodisks. Journal of Applied Physics, 2003, 93, 7429-7431.	2.5	46
70	Influence of point defects on magnetic vortex structures. Journal of Applied Physics, 2004, 95, 6708-6710.	2.5	44
71	Transmission Phase of a Singly Occupied Quantum Dot in the Kondo Regime. Physical Review Letters, 2008, 100, 226601.	7.8	43
72	Bunching of fractionally charged quasiparticles tunnelling through high-potential barriers. Nature, 2002, 416, 515-518.	27.8	41

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73	Photocurrent and Photovoltage Oscillations in the Two-Dimensional Electron System: Enhancement and Suppression of Built-In Electric Fields. <i>Physical Review Letters</i> , 2009, 102, 036602.	7.8	41
74	Extracting net current from an upstream neutral mode in the fractional quantum Hall regime. <i>Nature Communications</i> , 2012, 3, 1289.	12.8	41
75	Probing the Microscopic Structure of the Stripe Phase at Filling Factor $\nu = 5/2$ . <i>Physical Review Letters</i> , 2014, 113, 076803.	7.8	40
76	Optical Absorption to Probe the Quantum Hall Ferromagnet at Filling Factor $\nu = 1$ . <i>Physical Review Letters</i> , 2009, 102, 126806.	7.8	37
77	Melting of Interference in the Fractional Quantum Hall Effect: Appearance of Neutral Modes. <i>Physical Review Letters</i> , 2019, 122, 246801.	7.8	37
78	An electronic quantum eraser. <i>Science</i> , 2014, 344, 1363-1366.	12.6	36
79	Robust electron pairing in the integer quantum hall effect regime. <i>Nature Communications</i> , 2015, 6, 7435.	12.8	36
80	Synthesizing a $\nu = 2/3$ fractional quantum Hall effect edge state from counter-propagating $\nu = 1$ and $\nu = 1/3$ states. <i>Nature Communications</i> , 2019, 10, 1920.	12.8	36
81	Suppression of Conductance in Surface Superlattices by Temperature and Electric Field. <i>Physical Review Letters</i> , 1997, 78, 705-708.	7.8	34
82	Controlled Dephasing of a Quantum Dot in the Kondo Regime. <i>Physical Review Letters</i> , 2004, 92, 156801.	7.8	34
83	A Newtonian approach to extraordinarily strong negative refraction. <i>Nature</i> , 2012, 488, 65-69.	27.8	34
84	Distinguishing between non-abelian topological orders in a quantum Hall system. <i>Science</i> , 2022, 375, 193-197.	12.6	34
85	Tuning Methods for Semiconductor Spin Qubits. <i>Physical Review Applied</i> , 2018, 10, .	3.8	33
86	Direct observation of a fractional charge. <i>Physica B: Condensed Matter</i> , 1998, 249-251, 395-400.	2.7	32
87	Photoluminescence Ring Formation in Coupled Quantum Wells: Excitonic Versus Ambipolar Diffusion. <i>Physical Review Letters</i> , 2008, 101, 257402.	7.8	32
88	Electron Bunching in Transport through Quantum Dots in a High Magnetic Field. <i>Physical Review Letters</i> , 2007, 98, 066801.	7.8	29
89	Spectra of magnetoplasma excitations in back-gate Hall bar structures. <i>Physical Review B</i> , 2007, 75, .	3.2	28
90	Effect of electron-electron scattering on spin dephasing in a high-mobility low-density two-dimensional electron gas. <i>Physical Review B</i> , 2008, 77, .	3.2	28

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91	Dephasing of ballistic electrons as a function of temperature and carrier density. Semiconductor Science and Technology, 1994, 9, 907-910.	2.0	27
92	Internal Transitions of Negatively Charged Magnetoexcitons and Many Body Effects in a Two-Dimensional Electron Gas. Physical Review Letters, 2002, 88, 056801.	7.8	27
93	Collective Modes and the Periodicity of Quantum Hall Stripes. Physical Review Letters, 2011, 106, 206804.	7.8	27
94	Current-Induced Anisotropy and Reordering of the Electron Liquid-Crystal Phases in a Two-Dimensional Electron System. Physical Review Letters, 2007, 99, 246402.	7.8	26
95	Nonequilibrated Counterpropagating Edge Modes in the Fractional Quantum Hall Regime. Physical Review Letters, 2014, 113, 266803.	7.8	26
96	Negative permittivity in bubble and stripe phases. Nature Physics, 2017, 13, 1124-1129.	16.7	26
97	Controlled Dephasing of an Electron Interferometer with a Path Detector at Equilibrium. Physical Review Letters, 2012, 109, 250401.	7.8	25
98	Absorption in the Fractional Quantum Hall Regime: Trion Dichroism and Spin Polarization. Physical Review Letters, 2007, 98, 156803.	7.8	24
99	Counter-propagating charge transport in the quantum Hall effect regime. Science, 2019, 363, 54-57.	12.6	24
100	How branching can change the conductance of ballistic semiconductor devices. Physical Review B, 2012, 85, .	3.2	23
101	Observation of interaction-induced modulations of a quantum Hall liquid's area. Nature Communications, 2016, 7, 12184.	12.8	23
102	Robust integer and fractional helical modes in the quantum Hall effect. Nature Physics, 2018, 14, 411-416.	16.7	23
103	Anomalous chiral Luttinger liquid behavior of diluted fractionally charged quasiparticles. Physical Review B, 2003, 67, .	3.2	22
104	Absorption Spectrum Around $\nu=1$ : Evidence for a Small-Size Skyrmion. Physical Review Letters, 2004, 93, 096802.	7.8	22
105	Dimensional magnetoplasma resonance detected by free-exciton photoluminescence in modulation-doped GaAs/AlxGa1-xAs heterojunctions. Physical Review B, 2000, 62, 10310-10317.	3.2	21
106	Inelastic light scattering study of the $\nu=1$ quantum Hall ferromagnet. Physical Review B, 2008, 77, .	3.2	20
107	Dephasing of an electronic two-path interferometer. Physical Review B, 2016, 93, .	3.2	20
108	Quantized $\nu=5/2$ in a Two-Subband Quantum Hall System. Physical Review Letters, 2012, 108, 046804.	7.8	20

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109	Plasmon dispersions in high electron mobility terahertz detectors. Applied Physics Letters, 2014, 104, .	3.3	19
110	Absent thermal equilibration on fractional quantum Hall edges over macroscopic scale. Nature Communications, 2022, 13, 376.	12.8	18
111	Long-range Spatial Correlations in the Exciton Energy Distribution in GaAs/AlGaAs Quantum Wells. Physical Review Letters, 2002, 89, 157402.	7.8	17
112	Microwave-Induced Oscillations in Magnetocapacitance: Direct Evidence for Nonequilibrium Occupation of Electronic States. Physical Review Letters, 2016, 117, 176801.	7.8	17
113	Interaction-induced interference in the integer quantum Hall effect. Physical Review B, 2018, 97, .	3.2	17
114	Excitonic emission in the presence of a two-dimensional electron gas: A microscopic view. Physical Review B, 2001, 64, .	3.2	16
115	Controlled Dephasing of a Quantum Dot: From Coherent to Sequential Tunneling. Physical Review Letters, 2007, 98, 096803.	7.8	16
116	Multi-Valued Logic Gates based on Ballistic Transport in Quantum Point Contacts. Scientific Reports, 2014, 4, 3806.	3.3	16
117	Experimental Study of the Exciton Gas-Liquid Transition in Coupled Quantum Wells. Physical Review Letters, 2018, 120, 047402.	7.8	16
118	Condensation of bulk excitons on a magnetized two-dimensional electron gas in modulation-doped heterojunctions. Physical Review B, 2002, 65, .	3.2	15
119	Photoresponse of a two-dimensional electron gas at the second harmonic of the cyclotron resonance. Physical Review B, 2015, 91, .	3.2	15
120	Random Flips of Electric Field in Microwave-Induced States with Spontaneously Broken Symmetry. Physical Review Letters, 2015, 114, 176808.	7.8	15
121	Single-Shot Readout of a Driven Hybrid Qubit in a GaAs Double Quantum Dot. Nano Letters, 2021, 21, 4999-5005.	9.1	15
122	Observation of the logarithmic dispersion of high-frequency edge excitations. Physical Review B, 1997, 55, R13397-R13400.	3.2	14
123	Evidence of Hofstadter's fractal energy spectrum in the quantized Hall conductance. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 20, 143-148.	2.7	14
124	Attractive Coulomb interactions in a triple quantum dot. Physical Review B, 2018, 97, .	3.2	14
125	Nature of the Spin Transition in the Half-filled Landau Level. Physical Review Letters, 2009, 102, 046803.	7.8	13
126	Energy Relaxation in Edge Modes in the Quantum Hall Effect. Physical Review Letters, 2020, 125, 256803.	7.8	13



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127	Spatial correlation of ionized donors and its effect on scattering time and spin splitting in a two-dimensional electron gas. Physical Review B, 1997, 55, 15427-15430.	3.2	12
128	Current-induced nuclear spin depolarization at Landau level filling factor $\nu = 1/2$ . Physical Review B, 2012, 86, .	3.2	12
129	The local nature of incompressibility of quantum Hall effect. Nature Communications, 2017, 8, 14082.	12.8	12
130	Current Flow in the Bubble and Stripe Phases. Physical Review Letters, 2018, 120, 137603.	7.8	12
131	Detection of Landau band coupling induced rearrangement of the Hofstadter butterfly. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 227-232.	2.7	11
132	Tunable 0.7 conductance plateau in quantum dots. Physical Review B, 2007, 76, .	3.2	11
133	Transmission of heat modes across a potential barrier. Nature Communications, 2017, 8, 2251.	12.8	11
134	Comparison between the compressibilities of the zero field and composite-fermion metallic states of the two-dimensional electron system. Physical Review B, 2001, 63, .	3.2	10
135	Experimental evidence for predicted magnetotransport anomalies in rectangular superlattices. Physical Review B, 2005, 72, .	3.2	10
136	Quantum point contact with large subband energy spacings. Applied Physics Letters, 2012, 100, 183502.	3.3	10
137	Robust energy-selective tunneling readout of singlet-triplet qubits under large magnetic field gradient. Npj Quantum Information, 2020, 6, .	6.7	10
138	Anisotropy and periodicity in the density distribution of electrons in a quantum well. Physical Review B, 2002, 66, .	3.2	9
139	Enhanced exciton photoluminescence in the selectively Si-doped GaAs/AlxGa1-xAs heterostructures. Journal of Applied Physics, 2010, 108, 063522.	2.5	9
140	Characterization of individual layers in a bilayer electron system produced in a wide quantum well. Journal of Applied Physics, 2018, 123, .	2.5	9
141	Novel magneto-resistance oscillations in short period lateral superlattices. Physica B: Condensed Matter, 1998, 249-251, 914-917.	2.7	8
142	Effect of impurity scattering on the linear and nonlinear conductances of quasi-one-dimensional disordered quantum wires by asymmetrically lateral confinement. Journal of Physics Condensed Matter, 2010, 22, 395303.	1.8	8
143	Evidence for non-Markovian electron dynamics in the microwave absorption of a two-dimensional electron system. Physical Review B, 2017, 96, .	3.2	8
144	Individual two-axis control of three singlet-triplet qubits in a micromagnet integrated quantum dot array. Applied Physics Letters, 2020, 117, .	3.3	8

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145	All-GaAs/AlGaAs readout circuit for quantum-well infrared detector focal plane array. IEEE Transactions on Electron Devices, 1997, 44, 1807-1812.	3.0	7
146	Fermi-Edge Singularity of Spin-Polarized Electrons. Physical Review Letters, 2007, 98, 186810.	7.8	7
147	Effect of the surface on the electronic properties of a two-dimensional electron gas as measured by the quantum Hall effect. Physical Review B, 2010, 81, .	3.2	7
148	MBE growth of high-mobility 2DEG. , 2013, , 121-137.		7
149	Dephasing due to which path detector. Physica B: Condensed Matter, 1998, 249-251, 295-301.	2.7	6
150	Spin dynamics of electrons in the first excited subband of a high-mobility low-density two-dimensional electron system. Physical Review B, 2009, 80, .	3.2	6
151	Hall field-induced resistance oscillations in a tunable-density GaAs quantum well. Physical Review B, 2017, 96, .	3.2	6
152	Quantum Effects in the Capacitance of Field-Effect Transistors with a Double Quantum Well. JETP Letters, 2019, 110, 424-429.	1.4	6
153	Dynamics of charged excitons in GaAs quantum wells under high magnetic field. Physica B: Condensed Matter, 1998, 256-258, 466-469.	2.7	5
154	Characterization of $S^{\sim}T$ +transition dynamics via correlation measurements. Physical Review B, 2015, 92, .	3.2	5
155	Electron spin-flip correlations due to nuclear dynamics in driven GaAs double dots. Physical Review B, 2017, 95, .	3.2	5
156	Local incompressibility of fractional quantum Hall states at a filling factor of $3/2$ . Physical Review Research, 2020, 2, .	3.6	5
157	Low-energy electron beam lithography with 30 nm resolution. Semiconductor Science and Technology, 1993, 8, 1490-1492.	2.0	4
158	The interplay of gate potential and $\epsilon^{\sim}$ scattering in surface superlattices. Superlattices and Microstructures, 1997, 21, 137-142.	3.1	4
159	Monolithic integration of a quantum-well infrared photodetector array with a read-out circuit. Applied Physics Letters, 2001, 78, 472-474.	3.3	4
160	Measurements of the compressibility of the composite fermion metallic state in a 2D electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 97-100.	2.7	4
161	Anomalous temperature dependence of commensurability oscillations in one- and two-dimensional lateral superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 208-211.	2.7	4
162	Beating of Aharonov-Bohm oscillations in a closed-loop interferometer. Physical Review B, 2007, 76, .	3.2	4

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163	Effect of scattering on zero-bias anomaly and conductance reduction in quasi-one-dimensional quantum wires. Physical Review B, 2010, 81, .	3.2	4
164	Observation of the variations of the domain structure of a spontaneous electric field in a two-dimensional electron system under microwave irradiation. JETP Letters, 2016, 104, 721-725.	1.4	4
165	Dynamics of Spontaneous Electric Field Domains in a Two-Dimensional Electron System Irradiated by Microwaves and the Conductance of a Donor Layer. JETP Letters, 2018, 107, 61-65.	1.4	4
166	Capacitive detection of magnetic field induced quantum phase transitions in an imbalanced bilayer electron system. Physical Review B, 2020, 102, .	3.2	4
167	Bistability and dynamic depopulation in transport through a system of weakly coupled quantum wires. Physical Review B, 1996, 54, R5247-R5250.	3.2	3
168	Composite fermions in a weakly density modulated 2DEG: direct evidence of a periodic magnetic field around. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 87-90.	2.7	3
169	Cyclotron spin-flip excitations in the 2D-electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 574-577.	2.7	3
170	Observation of Neutral Modes In The Fractional Quantum Hall Effect Regime. , 2011, , .		3
171	Observation of exchange Coulomb interactions in the quantum Hall state at $\nu = 3/2$ . Physical Review B, 2011, 83, .		3
172	Disorder-enhanced nuclear spin relaxation at Landau level filling factor one. Chinese Physics B, 2015, 24, 067302.	1.4	3
173	Threading dislocations in MBE grown AlInSb metamorphic buffers: Revealed and counted. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	1.2	3
174	Nontrivial transition of transmission in a highly open quantum point contact in the quantum Hall regime. Physical Review B, 2017, 96, .	3.2	3
175	Acoustoelectric Study of Microwave-Induced Current Domains. Physical Review Letters, 2020, 124, 117601.	7.8	3
176	Absorption of Microwave Radiation by Two-Dimensional Electron Systems Associated with the Excitation of Dimensional Bernstein Mode Resonances. JETP Letters, 2021, 113, 670-675.	1.4	3
177	Cyclotron spin-wave in the 2D electron system. JETP Letters, 2001, 74, 270-273.	1.4	2
178	Zero-Resistance States Induced by Electromagnetic-Wave Excitation in GaAs/AlGaAs Heterostructures.. ChemInform, 2003, 34, no.	0.0	2
179	Circular-polarization-dependent study of the microwave-induced magneto-resistance oscillations in the 2D electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 315-319.	2.7	2
180	Effect of Ka-band microwave on the spin dynamics of electrons in a GaAs/Al <sub>0.35</sub> Ga <sub>0.65</sub> As heterostructure. Applied Physics Letters, 2009, 94, 192107.	3.3	2

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181	The formation of bound states and the conductance modulation on 0.7 anomaly in a quantum wire. Journal of Physics: Conference Series, 2009, 150, 022052.	0.4	2
182	Carrier density dependent electric transport of serially connected two quantum point contacts. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1122-1125.	2.7	2
183	Spatial variation of the two-dimensional electron gas density induced by an increasing Hall electric field. Physical Review B, 2011, 84, .	3.2	2
184	Repairing nanoscale devices using electron-beam-induced deposition of platinum. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 051803.	1.2	2
185	Multiple magnetic resonance of nuclei in a two-dimensional electron system. Physical Review B, 2016, 93, .	3.2	2
186	Freezing of the Dynamics of Spontaneous Electric Field Domains in Microwave-Induced States with a Low Dissipation. JETP Letters, 2018, 108, 215-219.	1.4	2
187	Commensurability effects in two-dimensional electron gases with periodically arranged Ni and NiFe nanopillars. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 216-219.	2.7	1
188	<title>GaAs/AlGaAs structures with $\hat{\Gamma}$ -doped layer for microwave detection</title>. , 2006, , .		1
189	Publisher's Note: Circular-Polarization-Dependent Study of the Microwave Photoconductivity in a Two-Dimensional Electron System [Phys. Rev. Lett.95, 116804 (2005)]. Physical Review Letters, 2007, 98, .	7.8	1
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