List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electron transport through double quantum dots. Reviews of Modern Physics, 2002, 75, 1-22.	45.6	1,534
2	The Kondo Effect in the Unitary Limit. Science, 2000, 289, 2105-2108.	12.6	707
3	Coherent Manipulation of Electronic States in a Double Quantum Dot. Physical Review Letters, 2003, 91, 226804.	7.8	679
4	Microwave spectroscopy of a quantum-dot molecule. Nature, 1998, 395, 873-876.	27.8	522
5	Coherent zero-state and ï€-state in an exciton–polariton condensate array. Nature, 2007, 450, 529-532.	27.8	366
6	Spontaneous Emission Spectrum in Double Quantum Dot Devices. , 1998, 282, 932-935.		361
7	Allowed and forbidden transitions in artificial hydrogen and helium atoms. Nature, 2002, 419, 278-281.	27.8	342
8	Bidirectional Counting of Single Electrons. Science, 2006, 312, 1634-1636.	12.6	323
9	Observation of Bogoliubov excitations in exciton-polariton condensates. Nature Physics, 2008, 4, 700-705.	16.7	245
10	Correlated Coherent Oscillations in Coupled Semiconductor Charge Qubits. Physical Review Letters, 2009, 103, 056802.	7.8	125
11	Gate-dependent spin–orbit coupling in multielectron carbon nanotubes. Nature Physics, 2011, 7, 348-353.	16.7	122
12	Pauli-spin-blockade transport through a silicon double quantum dot. Physical Review B, 2008, 77, .	3.2	115
13	Electron counting of single-electron tunneling current. Applied Physics Letters, 2004, 84, 2343-2345.	3.3	114
14	Fractionalized wave packets from an artificial Tomonaga–Luttinger liquid. Nature Nanotechnology, 2014, 9, 177-181.	31.5	107
15	Transient current spectroscopy of a quantum dot in the Coulomb blockade regime. Physical Review B, 2001, 63, .	3.2	99
16	Out-of-Equilibrium Kondo Effect in a Mesoscopic Device. Physical Review Letters, 2002, 89, 156801.	7.8	94
17	Time-dependent single-electron transport through quantum dots. Reports on Progress in Physics, 2006, 69, 759-796.	20.1	94
18	The Local-Environment-DependentDXCenters: Evidence for the Single Energy Level with a Specified Configuration. Japanese Journal of Applied Physics, 1989, 28, L891-L894.	1.5	93

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19	Fano-Kondo Interplay in a Side-Coupled Double Quantum Dot. Physical Review Letters, 2009, 103, 266806.	7.8	91
20	Bidirectional single-electron counting and the fluctuation theorem. Physical Review B, 2010, 81, .	3.2	89
21	Background charge fluctuation in a GaAs quantum dot device. Applied Physics Letters, 2004, 85, 768-770.	3.3	84
22	Observation of the Persistent Photoconductivity Due to the DX Center in GaAs under Hydrostatic Pressure. Japanese Journal of Applied Physics, 1985, 24, L893-L894.	1.5	78
23	Charge noise analysis of an AlGaAs/GaAs quantum dot using transmission-type radio-frequency single-electron transistor technique. Applied Physics Letters, 2000, 77, 543-545.	3.3	75
24	Waveform measurement of charge- and spin-density wavepackets in a chiral Tomonaga–Luttinger liquid. Nature Physics, 2017, 13, 559-562.	16.7	69
25	Electromagnetic Aharonov-Bohm effect in a two-dimensional electron gas ring. Physical Review B, 2003, 67, .	3.2	68
26	Rotation and phase-shift operations for a charge qubit in a double quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1046-1052.	2.7	65
27	Edge magnetoplasmon transport in gated and ungated quantum Hall systems. Physical Review B, 2011, 84, .	3.2	65
28	A Triple Quantum Dot in a Single-Wall Carbon Nanotube. Nano Letters, 2008, 8, 1055-1060.	9.1	58
29	Voltage-controlled group velocity of edge magnetoplasmon in the quantum Hall regime. Physical Review B, 2010, 81, .	3.2	58
30	Photon assisted tunnelling in single and coupled quantum dot systems. Superlattices and Microstructures, 1997, 21, 247-254.	3.1	57
31	Nonequilibrium Transport through a Vertical Quantum Dot in the Absence of Spin-Flip Energy Relaxation. Physical Review Letters, 2002, 88, 236802.	7.8	57
32	Surface-Acoustic-Wave-Induced Transport in a Double Quantum Dot. Physical Review Letters, 2006, 96, 136807.	7.8	54
33	Electrical pulse measurement, inelastic relaxation, and non-equilibrium transport in a quantum dot. Journal of Physics Condensed Matter, 2003, 15, R1395-R1428.	1.8	47
34	Plasmon transport in graphene investigated by time-resolved electrical measurements. Nature Communications, 2013, 4, 1363.	12.8	46
35	Spatial Imaging of Two-Dimensional Electronic States in Semiconductor Quantum Wells. Physical Review Letters, 2007, 98, 136802.	7.8	42
36	Direct Evidence for the Negative-U Property of the DX Center as Studied by Hydrostatic Pressure Experiments on GaAs Simultaneously Doped with Ge and Si. Japanese Journal of Applied Physics, 1990, 29, L388-L390.	1.5	39

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37	Electrical Pump-and-Probe Study of Spin Singlet-Triplet Relaxation in a Quantum Dot. Physical Review Letters, 2005, 95, 056803.	7.8	39
38	Distributed-element circuit model of edge magnetoplasmon transport. Physical Review B, 2013, 88, .	3.2	37
39	Pauli spin blockade in cotunneling transport through a double quantum dot. Physical Review B, 2005, 72, .	3.2	36
40	Spin-Dependent Phase Diagram of theνT=1Bilayer Electron System. Physical Review Letters, 2008, 100, 106803.	7.8	36
41	Kondo Effect in a Semiconductor Quantum Dot with a Spin-Accumulated Lead. Physical Review Letters, 2010, 104, 036804.	7.8	36
42	Distributed electrochemical capacitance evidenced in high-frequency admittance measurements on a quantum Hall device. Physical Review B, 2012, 85, .	3.2	34
43	A gate-defined silicon quantum dot molecule. Applied Physics Letters, 2008, 92, 222104.	3.3	33
44	Controlled resonant tunneling in a coupled double-quantum-dot system. Applied Physics Letters, 2007, 90, 103116.	3.3	31
45	Magnetic-Field Dependence of Tunnel Couplings in Carbon Nanotube Quantum Dots. Physical Review Letters, 2012, 108, 176802.	7.8	30
46	Controlled decoherence of a charge qubit in a double quantum dot. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2035.	1.6	28
47	High-frequency manipulation of few-electron double quantum dots—toward spin qubits. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 518-521.	2.7	28
48	A Double Quantum Dot as an Artificial Two-Level System. Japanese Journal of Applied Physics, 2001, 40, 2100-2104.	1.5	26
49	GaAs microcavity excitonâ€polaritons in a trap. Physica Status Solidi (B): Basic Research, 2008, 245, 1076-1080.	1.5	26
50	Signatures of a Nonthermal Metastable State in Copropagating Quantum Hall Edge Channels. Physical Review Letters, 2018, 120, 197701.	7.8	26
51	DX centers in III–V compound and alloy semiconductors as studied by hydrostatic pressure experiments. Journal of Crystal Growth, 1989, 98, 243-248.	1.5	25
52	Impedance analysis of a radio-frequency single-electron transistor. Applied Physics Letters, 2002, 81, 3257-3259.	3.3	25
53	Decoherence of nuclear spins due to dipole-dipole interactions probed by resistively detected nuclear magnetic resonance. Applied Physics Letters, 2007, 91, .	3.3	24
54	Tomonaga–Luttinger-liquid nature of edge excitations in integer quantum Hall edge channels. Reviews in Physics, 2018, 3, 32-43.	8.9	24

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55	Time-resolved charge fractionalization in inhomogeneous Luttinger liquids. Physical Review B, 2014, 89, .	3.2	23
56	Multiple Photon Assisted Tunneling between Two Coupled Quantum Dots. Japanese Journal of Applied Physics, 1997, 36, 4000-4003.	1.5	21
57	Bidirectional Current Drag Induced by Two-Electron Cotunneling in Coupled Double Quantum Dots. Applied Physics Express, 0, 2, 081101.	2.4	21
58	Resonant tunneling properties of single electron transistors with a novel doubleâ€gate geometry. Applied Physics Letters, 1996, 68, 526-528.	3.3	20
59	Multiple two-qubit operations for a coupled semiconductor charge qubit. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 730-734.	2.7	20
60	Gate-Dependent Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2011, 107, 186802.	7.8	20
61	Shot-Noise Evidence of Fractional Quasiparticle Creation in a Local Fractional Quantum Hall State. Physical Review Letters, 2015, 114, 056802.	7.8	20
62	Spectroscopic study on hot-electron transport in a quantum Hall edge channel. Physical Review B, 2019, 99, .	3.2	19
63	Inelastic tunneling in a double quantum dot coupled to a bosonic environment. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 413-419.	2.7	18
64	AlGaAs/InGaAs/GaAs single electron transistors fabricated by Ga focused ion beam implantation. Applied Physics Letters, 1994, 64, 2250-2252.	3.3	17
65	Microwave spectroscopy of a double quantum dot in the low- and high-power regime. Physica B: Condensed Matter, 1999, 272, 31-35.	2.7	17
66	Intrinsic Gap and Exciton Condensation in theνT=1Bilayer System. Physical Review Letters, 2010, 104, 056802.	7.8	17
67	Energy relaxation process in a quantum dot studied by DC current and pulse-excited current measurements. Physica B: Condensed Matter, 2001, 298, 573-579.	2.7	16
68	Direct Measurement of the Binding Energy and Bohr Radius of a Single Hydrogenic Defect in a Semiconductor Quantum Well. Physical Review Letters, 2008, 100, 056806.	7.8	16
69	Cross-correlation measurement of quantum shot noise using homemade transimpedance amplifiers. Review of Scientific Instruments, 2014, 85, 054704.	1.3	15
70	Long-lived binary tunneling spectrum in the quantum Hall Tomonaga-Luttinger liquid. Physical Review B, 2016, 93, .	3.2	15
71	Charge equilibration in integer and fractional quantum Hall edge channels in a generalized Hall-bar device. Physical Review B, 2019, 99, .	3.2	15
72	Metastable Behavior of the DX Center in Si-Doped GaAs. Japanese Journal of Applied Physics, 1988, 27, L2373-L2375.	1.5	14

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73	Enhanced electron-phonon coupling for a semiconductor charge qubit in a surface phonon cavity. Scientific Reports, 2015, 5, 15176.	3.3	14
74	Elastic and inelastic single electron tunneling in coupled two dot system. Microelectronic Engineering, 1999, 47, 101-105.	2.4	13
75	Charge fractionalization in artificial Tomonaga-Luttinger liquids with controlled interaction strength. Physical Review B, 2017, 96, .	3.2	13
76	Mechanism of Electron Accumulation Layer Formation at the MBE-grown InAs(111)A Surface. Hyomen Kagaku, 2008, 29, 747-757.	0.0	13
77	Quantized charge fractionalization at quantum Hall Y junctions in the disorder dominated regime. Nature Communications, 2021, 12, 131.	12.8	12
78	Electric Field Induced Nuclear Spin Resonance Mediated by Oscillating Electron Spin Domains in GaAs-Based Semiconductors. Physical Review Letters, 2008, 101, 137602.	7.8	11
79	Wide-band capacitance measurement on a semiconductor double quantum dot for studying tunneling dynamics. Applied Physics Letters, 2010, 96, 032104.	3.3	11
80	Subâ€Î¼m wide channels with surface potential compensated by focused Si ion beam implantation. Applied Physics Letters, 1993, 63, 51-53.	3.3	10
81	Plasmon transport and its guiding in graphene. New Journal of Physics, 2014, 16, 063055.	2.9	10
82	Electrons and holes in a 40 nm thick silicon slab at cryogenic temperatures. Applied Physics Letters, 2009, 94, 142104.	3.3	9
83	Impact of Valley Polarization on the Resistivity in Two Dimensions. Physical Review Letters, 2011, 106, 196403.	7.8	8
84	Transmission Type RF Single Electron Transistor Operation of a Semiconductor Quantum Dot. Japanese Journal of Applied Physics, 2000, 39, 2338-2340.	1.5	7
85	Imaging the percolation of localized states in a multisubband two-dimensional electronic system subject to a disorder potential. Physical Review B, 2007, 76, .	3.2	7
86	Nonequilibrium Charge Dynamics of Tomonaga–Luttinger Liquids in Quantum Hall Edge Channels. Annalen Der Physik, 2022, 534, .	2.4	7
87	Transport Properties of Modulation-Doped Structures Grown by Molecular Beam Epitaxy after Focused Ion Beam Implantation. Japanese Journal of Applied Physics, 1994, 33, 771-774.	1.5	6
88	Spin-dependent energy relaxation inside a quantum dot. Physica B: Condensed Matter, 2002, 314, 224-229.	2.7	6
89	Investigation of spin state in a quantum dot by using strongly asymmetric tunnel barriers. Physica Status Solidi (B): Basic Research, 2003, 238, 262-265.	1.5	6
90	Spin-dependent tunneling rates for electrostatically defined GaAs quantum dots. Physical Review B, 2014, 90, .	3.2	6

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91	Negative and positive cross-correlations of current noises in quantum Hall edge channels at bulk filling factor \$u =1\$. Journal of Physics Condensed Matter, 2017, 29, 225302.	1.8	6
92	Two-electron double quantum dot coupled to coherent photon and phonon fields. Physical Review B, 2017, 96, .	3.2	6
93	Ballistic hot-electron transport in a quantum Hall edge channel defined by a double gate. Applied Physics Letters, 2019, 115, .	3.3	6
94	Coherent Charge Oscillation in a Semiconductor Double Quantum Dot. IEEE Nanotechnology Magazine, 2004, 3, 300-303.	2.0	5
95	An edge-magnetoplasmon Mach-Zehnder interferometer. Applied Physics Letters, 2015, 107, 143101.	3.3	5
96	Nanostructure fabrication and the science using focused ion beams. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 3755.	1.6	4
97	Zeeman splitting in single-electron transport through a few-electron quantum dot. Physical Review B, 2007, 76, .	3.2	4
98	Voltage-pulse-induced electromigration. Nanotechnology, 2008, 19, 145709.	2.6	4
99	Many-body excitations in the tunneling current spectra of a few-electron quantum dot. Physical Review B, 2008, 77, .	3.2	4
100	Correlation Measurement of Time-Dependent Potentials in a Semiconductor Quantum Point Contact. Japanese Journal of Applied Physics, 2009, 48, 04C149.	1.5	4
101	Interferometric detection of edge magnetoplasmons in AlGaAs/GaAs heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 381-383.	0.8	4
102	Frequency conversion of radio-frequency edge magnetoplasmons using a quantum point contact. Applied Physics Letters, 2012, 100, 233501.	3.3	4
103	Stable and unstable dynamics of Overhauser fields in a double quantum dot. Physical Review B, 2014, 89, .	3.2	4
104	Single-electron counting statistics with a finite frequency bandwidth. Japanese Journal of Applied Physics, 2014, 53, 04EJ01.	1.5	4
105	Two-step breakdown of a local ν=1 quantum Hall state. Physical Review B, 2020, 101, .	3.2	4
106	Plasmon modes of coupled quantum Hall edge channels in the presence of disorder-induced tunneling. Physical Review B, 2021, 103, .	3.2	4
107	Time-resolved investigation of plasmon mode along interface channels in integer and fractional quantum Hall regimes. Physical Review B, 2021, 104, .	3.2	4
108	Novel Kondo anomaly in quantum dots. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 10-16.	3.5	3

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109	Time Resolved Potential Measurement At Quantum Point Contacts Under Irradiation Of Surface Acoustic Burst Wave. , 2011, , .		3
110	Admittance Measurement for a Quantum Point Contact in a Multiterminal Quantum Hall Device. Japanese Journal of Applied Physics, 2011, 50, 04DJ04.	1.5	3
111	Coupling between quantum Hall edge channels on opposite sides of a Hall bar. Solid State Communications, 2018, 283, 32-36.	1.9	3
112	Surface-acoustic-wave resonators with Ti, Cr, and Au metallization on GaAs. Applied Physics Express, 2019, 12, 055001.	2.4	3
113	Single-electron charge qubit in a double quantum dot. , 2006, , 279-287.		2
114	Time-Dependent Local Potential Induced by Scanning Gate Microscopy. Japanese Journal of Applied Physics, 2009, 48, 04C148.	1.5	2
115	Exchange-Induced Spin Blockade in a Two-Electron Double Quantum Dot. Physical Review Letters, 2015, 115, 176802.	7.8	2
116	Dissipative Landau–Zener transition in double quantum dot under sinusoidal potential modulation. Applied Physics Express, 2017, 10, 115201.	2.4	2
117	Generation and detection of edge magnetoplasmons in a quantum Hall system using a photoconductive switch. Japanese Journal of Applied Physics, 2018, 57, 04FK02.	1.5	2
118	Electronic energy spectroscopy of monochromatic edge magnetoplasmons in the quantum Hall regime. Journal of Physics Condensed Matter, 2018, 30, 345301.	1.8	2
119	Tunnelling and transfer between 1D and 2D electrons in adjusted quantum wells with thin barrier. Physica B: Condensed Matter, 1996, 227, 31-33.	2.7	1
120	Real-Time Observation of Charge States and Energy Relaxation in a Double Quantum Dot. Japanese Journal of Applied Physics, 2006, 45, 3629-3632.	1.5	1
121	Spatial imaging of valence band electronic structures in a GaSb/InAs quantum well. Applied Surface Science, 2008, 254, 7889-7892.	6.1	1
122	Coherence Time of Nuclear Spins in GaAs Quantum Well Probed by Submicron-Scale All-Electrical Nuclear Magnetic Resonance Device. Japanese Journal of Applied Physics, 2008, 47, 3115-3117.	1.5	1
123	Spin splitting of upper electron subbands in a SiO2/Si(100)/SiO2 quantum well with in-plane magnetic field. Applied Physics Letters, 2009, 94, 142101.	3.3	1
124	Correlation of \$1/f\$ Noise between Semiconductor Point Contacts with a Common Lead. Japanese Journal of Applied Physics, 2012, 51, 02BJ08.	1.5	1
125	Transient Current in the Spin Blockade Region of a Double Quantum Dot. Japanese Journal of Applied Physics, 2013, 52, 110204.	1.5	1
126	Quantum anti-dot formed with an airbridge gate in the quantum Hall regime. Applied Physics Express, 2019, 12, 065002.	2.4	1

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127	Sensitive current measurement on a quantum antidot with a Corbino-type electrode. Japanese Journal of Applied Physics, 2020, 59, SGGI03.	1.5	1
128	Admittance Measurement for a Quantum Point Contact in a Multiterminal Quantum Hall Device. Japanese Journal of Applied Physics, 2011, 50, 04DJ04.	1.5	1
129	Nonuniform heat redistribution among multiple channels in the integer quantum Hall regime. Physical Review B, 2022, 105, .	3.2	1
130	Electrical Pump and Probe Measurements of a Quantum Dot in the Coulomb Blockade Regime. Japanese Journal of Applied Physics, 2003, 42, 4804-4808.	1.5	0
131	Pauli blockade transport in the cotunneling regime through a double quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3766-3769.	0.8	Ο
132	Counting statistics of single electron transport through a double quantum dot. , 2006, , .		0
133	Bound states induced by a single donor in a semiconductor quantum well: A scanning tunneling spectroscopy study. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1418-1420.	2.7	Ο
134	Spin-Conserved Single-Electron Transport between Zeeman Sublevels in a Few-Electron Quantum Dot. Japanese Journal of Applied Physics, 2008, 47, 3107-3110.	1.5	0
135	NEGATIVE MAGNETORESISTANCE OF A SILICON 2DEG UNDER IN-PLANE MAGNETIC FIELD DUE TO SPIN-SPLITTING OF UPPER SUBBANDS. International Journal of Modern Physics B, 2009, 23, 2938-2942.	2.0	0
136	Separately contacted monocrystalline silicon double-layer structure with an amorphous silicon dioxide barrier made by wafer bonding. Semiconductor Science and Technology, 2010, 25, 125001.	2.0	0
137	Field and Density Dependence of Edge Magnetoplasmon Transport in a Quantum Hall System. Journal of Physics: Conference Series, 2011, 334, 012032.	0.4	Ο
138	Characteristic Current Levels of a Double Quantum Dot in the Spin Blockade Regime. , 2015, , .		0
139	Counting Statistics of Single-Electron Transport. Lecture Notes in Physics, 2016, , 151-171.	0.7	0
140	Correlation of 1/ <i>f</i> Noise between Semiconductor Point Contacts with a Common Lead. Japanese Journal of Applied Physics, 2012, 51, 02BJ08.	1.5	0