List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Coherent control of macroscopic quantum states in a single-Cooper-pair box. Nature, 1999, 398, 786-788.	13.7	2,136
2	Quantum oscillations in two coupled charge qubits. Nature, 2003, 421, 823-826.	13.7	671
3	Resonance Fluorescence of a Single Artificial Atom. Science, 2010, 327, 840-843.	6.0	574
4	Demonstration of conditional gate operation using superconducting charge qubits. Nature, 2003, 425, 941-944.	13.7	564
5	Single-electron current sources: Toward a refined definition of the ampere. Reviews of Modern Physics, 2013, 85, 1421-1472.	16.4	285
6	Charge Echo in a Cooper-Pair Box. Physical Review Letters, 2002, 88, 047901.	2.9	282
7	Single artificial-atom lasing. Nature, 2007, 449, 588-590.	13.7	282
8	Electromagnetically Induced Transparency on a Single Artificial Atom. Physical Review Letters, 2010, 104, 193601.	2.9	282
9	Quantum Noise in the Josephson Charge Qubit. Physical Review Letters, 2004, 93, 267007.	2.9	250
10	Coherent quantum phase slip. Nature, 2012, 484, 355-358.	13.7	222
11	Rabi Oscillations in a Josephson-Junction Charge Two-Level System. Physical Review Letters, 2001, 87, 246601.	2.9	182
12	Environment-Assisted Tunneling as an Origin of the Dynes Density of States. Physical Review Letters, 2010, 105, 026803.	2.9	153
13	Nonmagnetic semiconductors as read-head sensors for ultra-high-density magnetic recording. Applied Physics Letters, 2002, 80, 4012-4014.	1.5	134
14	Vacuum Rabi splitting due to strong coupling of a flux qubit and a coplanar-waveguide resonator. Physical Review B, 2008, 78, .	1.1	115
15	Room-temperature Al single-electron transistor made by electron-beam lithography. Applied Physics Letters, 2000, 76, 2256-2258.	1.5	101
16	Ultimate On-Chip Quantum Amplifier. Physical Review Letters, 2010, 104, 183603.	2.9	100
17	Parallel pumping of electrons. New Journal of Physics, 2009, 11, 113057.	1.2	76
18	Single-shot measurement of the Josephson charge qubit. Physical Review B, 2004, 69, .	1.1	71

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19	Temperature Square Dependence of the Low Frequency1/fCharge Noise in the Josephson Junction Qubits. Physical Review Letters, 2006, 96, 137001.	2.9	68
20	Josephson charge qubits: a brief review. Quantum Information Processing, 2009, 8, 55-80.	1.0	61
21	Real-Time Observation of Discrete Andreev Tunneling Events. Physical Review Letters, 2011, 106, 217003.	2.9	50
22	Dynamics of Coherent and Incoherent Emission from an Artificial Atom in a 1D Space. Physical Review Letters, 2011, 107, 043604.	2.9	49
23	Single-electron tunneling through an individual arsenic dopant in silicon. Nanoscale, 2017, 9, 613-620.	2.8	45
24	High-frequency metallic nanomechanical resonators. Applied Physics Letters, 2008, 92, 043112.	1.5	41
25	Damping in high-frequency metallic nanomechanical resonators. Physical Review B, 2010, 81, .	1.1	39
26	Experimental investigation of hybrid single-electron turnstiles with high charging energy. Applied Physics Letters, 2009, 94, 172108.	1.5	35
27	Nanoelectronic primary thermometry below 4 mK. Nature Communications, 2016, 7, 10455.	5.8	35
28	On the origin of the controversial electrostatic field effect in superconductors. Nature Communications, 2021, 12, 2747.	5.8	33
29	Parity effect in superconducting aluminum single electron transistors with spatial gap profile controlled by film thickness. Applied Physics Letters, 2006, 88, 212509.	1.5	29
30	Spectroscopy of superconducting charge qubits coupled by a Josephson inductance. Physical Review B, 2008, 77, .	1.1	28
31	Room temperature extraordinary magnetoresistance of nonmagnetic narrow-gap semiconductor/metal composites: application to read-head sensors for ultrahigh-density magnetic recording. IEEE Transactions on Magnetics, 2002, 38, 89-94.	1.2	27
32	Single-Electronic Radio-Frequency Refrigerator. Physical Review Letters, 2009, 103, 120801.	2.9	25
33	Potential barrier modification and interface states formation in metal-oxide-metal tunnel junctions. Physical Review B, 2009, 80, .	1.1	23
34	On-chip magnetic cooling of a nanoelectronic device. Scientific Reports, 2017, 7, 45566.	1.6	21
35	Quantum coherence in a single-Cooper-pair box: experiments in the frequency and time domains. Physica B: Condensed Matter, 2000, 280, 405-409.	1.3	20
36	Low-frequency charge noise in suspended aluminum single-electron transistors. Applied Physics Letters, 2007, 91, .	1.5	20

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37	An allâ€chromium single electron transistor: A possible new element of single electronics. Applied Physics Letters, 1996, 68, 2902-2904.	1.5	18
38	Coherent manipulation of coupled Josephson charge qubits. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1552-1560.	0.6	18
39	Electronic cooling of a submicron-sized metallic beam. Applied Physics Letters, 2009, 94, .	1.5	18
40	Spectral analysis and identification of noises in quantum systems. Physical Review A, 2013, 87, .	1.0	18
41	Nanoscopic magnetic field sensor based on extraordinary magnetoresistance. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 3002.	1.6	17
42	Operating Nanobeams in a Quantum Fluid. Scientific Reports, 2017, 7, 4876.	1.6	17
43	Charge transport and Zener tunneling in small Josephson junctions with dissipation. Physical Review B, 1996, 54, 10074-10080.	1.1	16
44	Highly Sensitive Electrometers Based on Single Cooper Pair Tunneling. Journal of Superconductivity and Novel Magnetism, 1999, 12, 747-755.	0.5	15
45	Single-Electron Pumping by Parallel SINIS Turnstiles for Quantum Current Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1696-1701.	2.4	15
46	Linewidth of Bloch oscillations in small Josephson junctions. Physica B: Condensed Matter, 1994, 203, 376-380.	1.3	14
47	Metallic resistively coupled single-electron transistor. Applied Physics Letters, 1999, 74, 132-134.	1.5	14
48	Nanoscale real-time detection of quantum vortices at millikelvin temperatures. Nature Communications, 2021, 12, 2645.	5.8	14
49	Experiments on tunnelling in small normal-metal junctions influenced by dissipative environment: Critical comparison to the theories of quantum fluctuations. Europhysics Letters, 1998, 43, 59-64.	0.7	13
50	Charge transport through ultrasmall single and double Josephson junctions coupled to resonant modes of the electromagnetic environment. Physical Review B, 2011, 83, .	1.1	13
51	Probing superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescr /><mml:none></mml:none><mml:mn>4</mml:mn></mml:mprescr </mml:mmultiscripts> with high-frequency nanomechanical resonators down to millikelvin temperatures. Physical Review B. 2019. 100</mml:math 	ripts 1.1	13
52	Observation of thermally excited charge transport modes in a superconducting single-electron transistor. Europhysics Letters, 1997, 39, 305-310.	0.7	12
53	Superconducting single-Cooper-pair box quantum bit with multi-gate-pulse operation. Physica C: Superconductivity and Its Applications, 2002, 367, 191-196.	0.6	12
54	Characterization of ultrasmall all-Nb tunnel junctions with ion gun oxidized barriers. Applied Physics Letters, 2006, 88, 112113.	1.5	12

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55	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	1.5	12
56	Parity effect in Al and Nb single electron transistors in a tunable environment. Applied Physics Letters, 2007, 91, 063512.	1.5	10
57	Detection of mechanical resonance of a single-electron transistor by direct current. Applied Physics Letters, 2010, 96, .	1.5	10
58	Josephson effect and macroscopic quantum interference in high-T/sub c/ superconducting thin-film weak links at 77 K. IEEE Transactions on Magnetics, 1989, 25, 943-945.	1.2	9
59	Detecting a phonon flux in superfluid He4 by a nanomechanical resonator. Physical Review B, 2020, 101,	1.1	9
60	Single electron tunnelling oscillations in a current-biased Josephson junction. Physica B: Condensed Matter, 1994, 194-196, 1713-1714.	1.3	8
61	Coherent Manipulations of Charge-Number States in a Cooper-Pair Box. Physica Scripta, 2002, T102, 155.	1.2	8
62	ENTANGLEMENT OF TWO COUPLED CHARGE QUBITS. International Journal of Quantum Information, 2003, 01, 421-426.	0.6	8
63	High Quality Factor Mechanical Resonance in a Silicon Nanowire. JETP Letters, 2018, 108, 492-497.	0.4	8
64	Measurement of the superconducting single electron transistor in a high impedance environment. Physica B: Condensed Matter, 1994, 203, 347-353.	1.3	7
65	Multiplexing Superconducting Qubit Circuit for Single Microwave Photon Generation. Journal of Low Temperature Physics, 2017, 189, 60-75.	0.6	6
66	Interplay of the Inverse Proximity Effect and Magnetic Field in Out-of-Equilibrium Single-Electron Devices. Physical Review Applied, 2017, 7, .	1.5	6
67	Nongalvanic Calibration and Operation of a Quantum Dot Thermometer. Physical Review Applied, 2021, 15, .	1.5	6
68	Superconducting single-Cooper-pair box as quantum bit. Physica C: Superconductivity and Its Applications, 2001, 357-360, 1-6.	0.6	5
69	Characterization of all-Nb nanodevices fabricated by electron beam lithography and ion beam oxidation. Journal of Vacuum Science & Technology B, 2007, 25, 448.	1.3	5
70	Development of the sinis turnstile for the quantum metrological triangle. , 2010, , .		5
71	Coherent superconducting quantum pump. Physical Review B, 2012, 85, .	1.1	5
72	Implementation of Single-Electron Transistor with Resistive Gate. Japanese Journal of Applied Physics, 1999, 38, 406-409.	0.8	4

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73	Fabrication and characterization of chromium based single-electron transistors with evaporated chromium oxide barrier tunnel junctions. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 1413.	1.6	4
74	Comment on "Charge-Qubit Operation of an Isolated Double Quantum Dot― Physical Review Letters, 2006, 97, 208901; author reply 208902.	2.9	4
75	Temperature dependence of single-electron pumping using a SINIS turnstile. Physica C: Superconductivity and Its Applications, 2014, 504, 93-96.	0.6	4
76	Bloch oscillations in a double Josephson junction biased via high-ohmic resistors. Superconductor Science and Technology, 1994, 7, 324-326.	1.8	3
77	Application of low temperature scanning electron microscopy for the investigation of singleâ€electron tunneling circuits. Journal of Applied Physics, 1994, 76, 376-384.	1.1	3
78	Subgap leakage and interface states in superconductor–insulator–superconductor tunnel junctions. Physica C: Superconductivity and Its Applications, 2010, 470, S832-S833.	0.6	3
79	Fabrication and characterization of Al nanomechanical resonators for coupling to nanoelectronic devices. Applied Physics A: Materials Science and Processing, 2012, 108, 7-11.	1.1	3
80	Multimode probing of superfluid 4He by tuning forks. Applied Physics Letters, 2019, 115, .	1.5	3
81	Fabry–Perot interferometric calibration of van der Waals material-based nanomechanical resonators. Nanoscale Advances, 2022, 4, 502-509.	2.2	3
82	2e periodic modulation of the I-V curve of a current-biased superconducting transistor. Physica B: Condensed Matter, 1994, 194-196, 1049-1050.	1.3	2
83	Imaging Offâ€Resonance Nanomechanical Motion as Modal Superposition. Advanced Science, 2021, 8, 2005041.	5.6	2
84	Coulomb Blockade in Resistively Coupled Single-Electron Transistor: Dependence on Bias Conditions. Japanese Journal of Applied Physics, 1999, 38, 2466-2469.	0.8	1
85	The first solid state qubit. , 0, , .		1
86	Towards accurate charge transport with SINIS turnstile. , 2012, , .		1
87	SINIS turnstile for quantum current standards. , 2014, , .		1
88	Conditional gate operation in superconducting charge qubits. , 2006, , 10-18.		1
89	Quantum-State Interference in a Cooper-Pair Box. , 2001, , 17-24.		1
90	Optoelectrical Nanomechanical Resonators Made from Multilayered Two-Dimensional Materials. ACS Applied Nano Materials, 2022, 5, 8875-8882.	2.4	1

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91	Magnetic field dependence of the current-voltage curve of a superconducting single electron transistor in a high impedance environment. European Physical Journal D, 1996, 46, 2291-2292.	0.4	0
92	Zener tunneling in small Josephson junctions with dissipation. European Physical Journal D, 1996, 46, 655-656.	0.4	0
93	Coulomb blockade electrometer based on single Cooper pair tunneling. Applied Superconductivity, 1998, 6, 453-458.	0.5	0
94	Possibility of Single-Electron Devices and Superconducting Coherence. , 2002, , 97-103.		0
95	Tunnel spectroscopy of small Al particle. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 19-20.	1.3	0
96	Coupled Josephson quantum bits. , 2004, , .		0
97	RECENT RESULTS IN EXPERIMENTS WITH JOSEPHSON QUBITS. International Journal of Quantum Information, 2005, 03, 173-196.	0.6	0
98	Quantum coherent dynamics of two coupled superconducting charge qubits. , 2005, , .		0
99	Hybrid single-electron turnstile - Towards a quantum standard of electric current. , 2010, , .		0
100	Suspended single-electron transistor as a detector of its nanomechanical motion. , 2010, , .		0
101	Radio-frequency transport of single electrons in superconductor-normal-metal tunnel junctions and the quantum metrological triangle. , 2011, , .		0
102	Single-electron devices with a mechanical degree of freedom. Journal of Physics: Conference Series, 2012, 400, 052028.	0.3	0
103	Measurement and control of single-photon microwave radiation on chip. , 2014, , .		0
104	Towards measurement and control of single-photon microwave radiation on chip. , 2015, , .		0
105	QUANTUM-STATE MANIPULATIONS IN A COOPER-PAIR BOX. , 2002, , .		0
106	Coherent Manipulations of Charge-Number States in a Cooper-Pair Box. , 2003, , .		0