

Yuri A Pashkin

List of Publications by Year in descending order

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106
papers

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citations

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times ranked

3925
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#	ARTICLE	IF	CITATIONS
1	Fabry-Perot interferometric calibration of van der Waals material-based nanomechanical resonators. <i>Nanoscale Advances</i> , 2022, 4, 502-509.	2.2	3
2	Optoelectrical Nanomechanical Resonators Made from Multilayered Two-Dimensional Materials. <i>ACS Applied Nano Materials</i> , 2022, 5, 8875-8882.	2.4	1
3	Nongalvanic Calibration and Operation of a Quantum Dot Thermometer. <i>Physical Review Applied</i> , 2021, 15, .	1.5	6
4	Nanoscale real-time detection of quantum vortices at millikelvin temperatures. <i>Nature Communications</i> , 2021, 12, 2645.	5.8	14
5	On the origin of the controversial electrostatic field effect in superconductors. <i>Nature Communications</i> , 2021, 12, 2747.	5.8	33
6	Imaging Off-Resonance Nanomechanical Motion as Modal Superposition. <i>Advanced Science</i> , 2021, 8, 2005041.	5.6	2
7	Detecting a phonon flux in superfluid He4 by a nanomechanical resonator. <i>Physical Review B</i> , 2020, 101, .	1.1	9
8	Probing superfluid ^4He with high-frequency nanomechanical resonators down to millikelvin temperatures. <i>Physical Review B</i> , 2019, 100, .	1.1	13
9	Multimode probing of superfluid ^4He by tuning forks. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	3
10	High Quality Factor Mechanical Resonance in a Silicon Nanowire. <i>JETP Letters</i> , 2018, 108, 492-497.	0.4	8
11	Graphene-based tunable SQUIDs. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	12
12	On-chip magnetic cooling of a nanoelectronic device. <i>Scientific Reports</i> , 2017, 7, 45566.	1.6	21
13	Single-electron tunneling through an individual arsenic dopant in silicon. <i>Nanoscale</i> , 2017, 9, 613-620.	2.8	45
14	Operating Nanobeams in a Quantum Fluid. <i>Scientific Reports</i> , 2017, 7, 4876.	1.6	17
15	Multiplexing Superconducting Qubit Circuit for Single Microwave Photon Generation. <i>Journal of Low Temperature Physics</i> , 2017, 189, 60-75.	0.6	6
16	Interplay of the Inverse Proximity Effect and Magnetic Field in Out-of-Equilibrium Single-Electron Devices. <i>Physical Review Applied</i> , 2017, 7, .	1.5	6
17	Nanoelectronic primary thermometry below 4 mK. <i>Nature Communications</i> , 2016, 7, 10455.	5.8	35
18	Towards measurement and control of single-photon microwave radiation on chip. , 2015, , .		0

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19	Single-Electron Pumping by Parallel SINIS Turnstiles for Quantum Current Standard. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1696-1701.	2.4	15
20	Measurement and control of single-photon microwave radiation on chip. , 2014, , .		0
21	SINIS turnstile for quantum current standards. , 2014, , .		1
22	Temperature dependence of single-electron pumping using a SINIS turnstile. Physica C: Superconductivity and Its Applications, 2014, 504, 93-96.	0.6	4
23	Single-electron current sources: Toward a refined definition of the ampere. Reviews of Modern Physics, 2013, 85, 1421-1472.	16.4	285
24	Spectral analysis and identification of noises in quantum systems. Physical Review A, 2013, 87, .	1.0	18
25	Coherent superconducting quantum pump. Physical Review B, 2012, 85, .	1.1	5
26	Single-electron devices with a mechanical degree of freedom. Journal of Physics: Conference Series, 2012, 400, 052028.	0.3	0
27	Towards accurate charge transport with SINIS turnstile. , 2012, , .		1
28	Coherent quantum phase slip. Nature, 2012, 484, 355-358.	13.7	222
29	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
30	Radio-frequency transport of single electrons in superconductor-normal-metal tunnel junctions and the quantum metrological triangle. , 2011, , .		0
31	Real-Time Observation of Discrete Andreev Tunneling Events. Physical Review Letters, 2011, 106, 217003.	2.9	50
32	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
33	Dynamics of Coherent and Incoherent Emission from an Artificial Atom in a 1D Space. Physical Review Letters, 2011, 107, 043604.	2.9	49
34	Subgap leakage and interface states in superconductorâ€“insulatorâ€“superconductor tunnel junctions. Physica C: Superconductivity and Its Applications, 2010, 470, S832-S833.	0.6	3
35	Environment-Assisted Tunneling as an Origin of the Dynes Density of States. Physical Review Letters, 2010, 105, 026803.	2.9	153
36	Development of the sinis turnstile for the quantum metrological triangle. , 2010, , .		5

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37	Damping in high-frequency metallic nanomechanical resonators. <i>Physical Review B</i> , 2010, 81, .	1.1	39
38	Detection of mechanical resonance of a single-electron transistor by direct current. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	10
39	Ultimate On-Chip Quantum Amplifier. <i>Physical Review Letters</i> , 2010, 104, 183603.	2.9	100
40	Electromagnetically Induced Transparency on a Single Artificial Atom. <i>Physical Review Letters</i> , 2010, 104, 193601.	2.9	282
41	Resonance Fluorescence of a Single Artificial Atom. <i>Science</i> , 2010, 327, 840-843.	6.0	574
42	Hybrid single-electron turnstile - Towards a quantum standard of electric current. , 2010, , .		0
43	Suspended single-electron transistor as a detector of its nanomechanical motion. , 2010, , .		0
44	Electronic cooling of a submicron-sized metallic beam. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	18
45	Single-Electronic Radio-Frequency Refrigerator. <i>Physical Review Letters</i> , 2009, 103, 120801.	2.9	25
46	Experimental investigation of hybrid single-electron turnstiles with high charging energy. <i>Applied Physics Letters</i> , 2009, 94, 172108.	1.5	35
47	Parallel pumping of electrons. <i>New Journal of Physics</i> , 2009, 11, 113057.	1.2	76
48	Josephson charge qubits: a brief review. <i>Quantum Information Processing</i> , 2009, 8, 55-80.	1.0	61
49	Potential barrier modification and interface states formation in metal-oxide-metal tunnel junctions. <i>Physical Review B</i> , 2009, 80, .	1.1	23
50	High-frequency metallic nanomechanical resonators. <i>Applied Physics Letters</i> , 2008, 92, 043112.	1.5	41
51	Vacuum Rabi splitting due to strong coupling of a flux qubit and a coplanar-waveguide resonator. <i>Physical Review B</i> , 2008, 78, .	1.1	115
52	Spectroscopy of superconducting charge qubits coupled by a Josephson inductance. <i>Physical Review B</i> , 2008, 77, .	1.1	28
53	Characterization of all-Nb nanodevices fabricated by electron beam lithography and ion beam oxidation. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 448.	1.3	5
54	Low-frequency charge noise in suspended aluminum single-electron transistors. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	20

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55	Parity effect in Al and Nb single electron transistors in a tunable environment. Applied Physics Letters, 2007, 91, 063512.	1.5	10
56	Single artificial-atom lasing. Nature, 2007, 449, 588-590.	13.7	282
57	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
58	Characterization of ultrasmall all-Nb tunnel junctions with ion gun oxidized barriers. Applied Physics Letters, 2006, 88, 112113.	1.5	12
59	Comment on "Charge-Qubit Operation of an Isolated Double Quantum Dot", Physical Review Letters, 2006, 97, 208901; author reply 208902.	2.9	4
60	Temperature Square Dependence of the Low Frequency $1/f$ Charge Noise in the Josephson Junction Qubits. Physical Review Letters, 2006, 96, 137001.	2.9	68
61	Conditional gate operation in superconducting charge qubits. , 2006, , 10-18.		1
62	Coherent manipulation of coupled Josephson charge qubits. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1552-1560.	0.6	18
63	RECENT RESULTS IN EXPERIMENTS WITH JOSEPHSON QUBITS. International Journal of Quantum Information, 2005, 03, 173-196.	0.6	0
64	Quantum coherent dynamics of two coupled superconducting charge qubits. , 2005, , .		0
65	Single-shot measurement of the Josephson charge qubit. Physical Review B, 2004, 69, .	1.1	71
66	Quantum Noise in the Josephson Charge Qubit. Physical Review Letters, 2004, 93, 267007.	2.9	250
67	Coupled Josephson quantum bits. , 2004, , .		0
68	Tunnel spectroscopy of small Al particle. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 19-20.	1.3	0
69	Quantum oscillations in two coupled charge qubits. Nature, 2003, 421, 823-826.	13.7	671
70	Demonstration of conditional gate operation using superconducting charge qubits. Nature, 2003, 425, 941-944.	13.7	564
71	ENTANGLEMENT OF TWO COUPLED CHARGE QUBITS. International Journal of Quantum Information, 2003, 01, 421-426.	0.6	8
72	Nanoscale 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

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73	Coherent Manipulations of Charge-Number States in a Cooper-Pair Box. , 2003, , .		0
74	Charge Echo in a Cooper-Pair Box. Physical Review Letters, 2002, 88, 047901.	2.9	282
75	Nonmagnetic semiconductors as read-head sensors for ultra-high-density magnetic recording. Applied Physics Letters, 2002, 80, 4012-4014.	1.5	134
76	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
77	Coherent Manipulations of Charge-Number States in a Cooper-Pair Box. Physica Scripta, 2002, T102, 155.	1.2	8
78	Possibility of Single-Electron Devices and Superconducting Coherence. , 2002, , 97-103.		0
79	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
80	QUANTUM-STATE MANIPULATIONS IN A COOPER-PAIR BOX. , 2002, , .		0
81	Rabi Oscillations in a Josephson-Junction Charge Two-Level System. Physical Review Letters, 2001, 87, 246601.	2.9	182
82	Superconducting single-Cooper-pair box as quantum bit. Physica C: Superconductivity and Its Applications, 2001, 357-360, 1-6.	0.6	5
83	Quantum-State Interference in a Cooper-Pair Box. , 2001, , 17-24.		1
84	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
85	Room-temperature Al single-electron transistor made by electron-beam lithography. Applied Physics Letters, 2000, 76, 2256-2258.	1.5	101
86	Coulomb Blockade in Resistively Coupled Single-Electron Transistor: Dependence on Bias Conditions. Japanese Journal of Applied Physics, 1999, 38, 2466-2469.	0.8	1
87	Implementation of Single-Electron Transistor with Resistive Gate. Japanese Journal of Applied Physics, 1999, 38, 406-409.	0.8	4
88	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
89	Coherent control of macroscopic quantum states in a single-Cooper-pair box. Nature, 1999, 398, 786-788.	13.7	2,136
90	Highly Sensitive Electrometers Based on Single Cooper Pair Tunneling. Journal of Superconductivity and Novel Magnetism, 1999, 12, 747-755.	0.5	15

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91	Metallic resistively coupled single-electron transistor. Applied Physics Letters, 1999, 74, 132-134.	1.5	14
92	Coulomb blockade electrometer based on single Cooper pair tunneling. Applied Superconductivity, 1998, 6, 453-458.	0.5	0
93	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
94	Observation of thermally excited charge transport modes in a superconducting single-electron transistor. Europhysics Letters, 1997, 39, 305-310.	0.7	12
95	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
96	Zener tunneling in small Josephson junctions with dissipation. European Physical Journal D, 1996, 46, 655-656.	0.4	0
97	An all-€chromium single electron transistor: A possible new element of single electronics. Applied Physics Letters, 1996, 68, 2902-2904.	1.5	18
98	Charge transport and Zener tunneling in small Josephson junctions with dissipation. Physical Review B, 1996, 54, 10074-10080.	1.1	16
99	Bloch oscillations in a double Josephson junction biased via high-ohmic resistors. Superconductor Science and Technology, 1994, 7, 324-326.	1.8	3
100	Application of low temperature scanning electron microscopy for the investigation of single-€electron tunneling circuits. Journal of Applied Physics, 1994, 76, 376-384.	1.1	3
101	Measurement of the superconducting single electron transistor in a high impedance environment. Physica B: Condensed Matter, 1994, 203, 347-353.	1.3	7
102	Linewidth of Bloch oscillations in small Josephson junctions. Physica B: Condensed Matter, 1994, 203, 376-380.	1.3	14
103	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
104	Single electron tunnelling oscillations in a current-biased Josephson junction. Physica B: Condensed Matter, 1994, 194-196, 1713-1714.	1.3	8
105	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
106	The first solid state qubit. , 0, , .		1