

# Hugues Pothier

## List of Publications by Year in descending order

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62  
papers

6,014  
citations

147801

31  
h-index

144013

57  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulating the Quantum State of an Electrical Circuit. <i>Science</i> , 2002, 296, 886-889.	12.6	1,425
2	Frequency-locked turnstile device for single electrons. <i>Physical Review Letters</i> , 1990, 64, 2691-2694.	7.8	541
3	Effect of the electromagnetic environment on the Coulomb blockade in ultrasmall tunnel junctions. <i>Physical Review Letters</i> , 1990, 64, 1824-1827.	7.8	477
4	Single-Electron Pump Based on Charging Effects. <i>Europhysics Letters</i> , 1992, 17, 249-254.	2.0	469
5	Energy Distribution Function of Quasiparticles in Mesoscopic Wires. <i>Physical Review Letters</i> , 1997, 79, 3490-3493.	7.8	290
6	Direct observation of macroscopic charge quantization. <i>European Physical Journal B</i> , 1991, 85, 327-332.	1.5	241
7	Superconducting Proximity Effect Probed on a Mesoscopic Length Scale. <i>Physical Review Letters</i> , 1996, 77, 3025-3028.	7.8	206
8	Dephasing of electrons in mesoscopic metal wires. <i>Physical Review B</i> , 2003, 68, .	3.2	200
9	Single electron pump fabricated with ultrasmall normal tunnel junctions. <i>Physica B: Condensed Matter</i> , 1991, 169, 573-574.	2.7	168
10	Coherent manipulation of Andreev states in superconducting atomic contacts. <i>Science</i> , 2015, 349, 1199-1202.	12.6	161
11	Flux-Modulated Andreev Current Caused by Electronic Interference. <i>Physical Review Letters</i> , 1994, 73, 2488-2491.	7.8	153
12	Phase Controlled Superconducting Proximity Effect Probed by Tunneling Spectroscopy. <i>Physical Review Letters</i> , 2008, 100, 197002.	7.8	153
13	Exciting Andreev pairs in a superconducting atomic contact. <i>Nature</i> , 2013, 499, 312-315.	27.8	136
14	Density of States in a Superconductor Carrying a Supercurrent. <i>Physical Review Letters</i> , 2003, 90, 127001.	7.8	129
15	Measurement of the Current-Phase Relation of Superconducting Atomic Contacts. <i>Physical Review Letters</i> , 2007, 99, 127005.	7.8	104
16	Spin-Orbit Splitting of Andreev States Revealed by Microwave Spectroscopy. <i>Physical Review X</i> , 2019, 9, .	8.9	84
17	Evidence for Long-Lived Quasiparticles Trapped in Superconducting Point Contacts. <i>Physical Review Letters</i> , 2011, 106, 257003.	7.8	78
18	Single electron tunneling rates in multijunction circuits. <i>European Physical Journal B</i> , 1991, 84, 143-155.	1.5	73

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19	Single Cooper pair pump. European Physical Journal B, 1991, 85, 349-355.	1.5	70
20	Comparison of energy and phase relaxation in metallic wires. Journal of Low Temperature Physics, 2000, 118, 447-456.	1.4	66
21	Magnetic-Field-Dependent Quasiparticle Energy Relaxation in Mesoscopic Wires. Physical Review Letters, 2003, 90, 076806.	7.8	57
22	Supercurrent Spectroscopy of Andreev States. Physical Review X, 2013, 3, .	8.9	49
23	Conduction channels of an InAs-Al nanowire Josephson weak link. New Journal of Physics, 2017, 19, 092002.	2.9	47
24	Dynamics of quasiparticle trapping in Andreev levels. Physical Review B, 2014, 89, .	3.2	45
25	Energy Redistribution Between Quasiparticles in Mesoscopic Silver Wires. Journal of Low Temperature Physics, 2000, 118, 437-445.	1.4	39
26	Superconducting Atomic Contacts under Microwave Irradiation. Physical Review Letters, 2006, 97, 067006.	7.8	39
27	Electrodynamic Dip in the Local Density of States of a Metallic Wire. Physical Review Letters, 2001, 86, 1590-1593.	7.8	35
28	Josephson junctions as detectors for non-Gaussian noise. Annalen Der Physik, 2007, 16, 736-750.	2.4	35
29	Rabi oscillations, Ramsey fringes and spin echoes in an electrical circuit. Fortschritte Der Physik, 2003, 51, 462-468.	4.4	34
30	Asymmetric Noise Probed with a Josephson Junction. Physical Review Letters, 2009, 102, 067002.	7.8	33
31	Multiple Andreev Reflections Revealed by the Energy Distribution of Quasiparticles. Physical Review Letters, 2001, 86, 1078-1081.	7.8	32
32	Voltage-induced Shapiro steps in a superconducting multiterminal structure. Physical Review B, 2007, 75, .	3.2	31
33	Controlled transfer of single charge carriers. IEEE Transactions on Magnetics, 1991, 27, 2578-2580.	2.1	29
34	Signatures of Interactions in the Andreev Spectrum of Nanowire Josephson Junctions. Physical Review Letters, 2022, 128, .	7.8	19
35	Passing electrons one by one: is a $10^{-8}$ accuracy achievable?. IEEE Transactions on Instrumentation and Measurement, 1993, 42, 324-330.	4.7	18
36	Influence of electronic interferences on the Andreev conductance. Physica B: Condensed Matter, 1994, 203, 226-232.	2.7	18

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37	Effect of Magnetic Impurities on Energy Exchange between Electrons. <i>Physical Review Letters</i> , 2005, 95, 036802.	7.8	18
38	Current to Frequency Conversion in a Josephson Circuit. <i>Physical Review Letters</i> , 2007, 99, 187005.	7.8	18
39	Circuit-QED with phase-biased Josephson weak links. <i>Physical Review Research</i> , 2021, 3, .	3.6	18
40	Realization of an in-plane-gate single-electron transistor. <i>Applied Physics Letters</i> , 1993, 62, 3174-3176.	3.3	17
41	Electron heating in metallic resistors at sub-Kelvin temperature. <i>Physical Review B</i> , 2007, 76, .	3.2	17
42	Theory of microwave spectroscopy of Andreev bound states with a Josephson junction. <i>Physical Review B</i> , 2014, 90, .	3.2	17
43	Intensity of Coulomb interaction between quasiparticles in diffusive metallic wires. <i>Solid State Communications</i> , 2004, 131, 599-607.	1.9	14
44	From Adiabatic to Dispersive Readout of Quantum Circuits. <i>Physical Review Letters</i> , 2020, 125, 077701.	7.8	13
45	Superconducting Electrometer for Measuring the Single Cooper Pair Box. , 2001, , 111-125.		11
46	Energy distribution of electrons in an out-of-equilibrium metallic wire. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 103, 313-318.	1.1	10
47	Superconducting quantum point contacts. <i>Comptes Rendus Physique</i> , 2012, 13, 89-100.	0.9	9
48	Searching for thermal signatures of persistent currents in normal-metal rings. <i>Physical Review B</i> , 2013, 87, .	3.2	8
49	Observability of the coulomb blockade in single tunnel junctions. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 977-978.	2.7	7
50	The Proximity Effect in Mesoscopic Diffusive Conductors. , 1997, , 375-406.		5
51	On the observability of Coulomb blockade and single-electron tunneling. <i>Ultramicroscopy</i> , 1992, 42-44, 22-32.	1.9	4
52	Single-electron transistors realized in in-plane-gate and top-gate technology. <i>Solid-State Electronics</i> , 1994, 37, 995-999.	1.4	4
53	Signatures of ballistic transport in the magnetoresistance of nanostructures made of single-crystalline refractory metals. <i>Nanotechnology</i> , 2002, 13, 226-230.	2.6	4
54	Ramsey Fringe Measurement of Decoherence in a Novel Superconducting Quantum Bit Based on the Cooper Pair Box. <i>Physica Scripta</i> , 2002, T102, 162.	2.5	3

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55	Superconducting atomic contacts inductively coupled to a microwave resonator. Journal of Physics Condensed Matter, 2014, 26, 474208.	1.8	3
56	Towards quantum electrical circuits. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 7-10.	2.7	2
57	Probing Interactions in Mesoscopic Gold Wires. , 2001, , 119-132.		2
58	Manipulating Electrons One by One. Springer Series in Electrophysics, 1992, , 23-44.	0.2	1
59	The superconducting proximity effect probed on a mesoscopic length scale. European Physical Journal D, 1996, 46, 2319-2320.	0.4	1
60	Superconducting quantum bit based on the Cooper pair box. , 2003, , 173-195.		0
61	Manipulation and Readout of a Josephson Qubit. , 2004, , 13-21.		0
62	BLOCH OSCILLATIONS IN A JOSEPHSON CIRCUIT. , 2008, , .		0