

# 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  | Signatures of Interactions in the Andreev Spectrum of Nanowire Josephson Junctions. Physical Review Letters, 2022, 128, .            | 7.8  | 19        |
| 2  | Circuit-QED with phase-biased Josephson weak links. Physical Review Research, 2021, 3, .   | 3.6  | 18        |
| 3  | From Adiabatic to Dispersive Readout of Quantum Circuits. Physical Review Letters, 2020, 125, 077701.                                | 7.8  | 13        |
| 4  | Spin-Orbit Splitting of Andreev States Revealed by Microwave Spectroscopy. Physical Review X, 2019, 9, .                             | 8.9  | 84        |
| 5  | Conduction channels of an InAs-Al nanowire Josephson weak link. New Journal of Physics, 2017, 19, 092002.                            | 2.9  | 47        |
| 6  | Coherent manipulation of Andreev states in superconducting atomic contacts. Science, 2015, 349, 1199-1202.                           | 12.6 | 161       |
| 7  | Dynamics of quasiparticle trapping in Andreev levels. Physical Review B, 2014, 89, .   | 3.2  | 45        |
| 8  | Superconducting atomic contacts inductively coupled to a microwave resonator. Journal of Physics Condensed Matter, 2014, 26, 474208. | 1.8  | 3         |
| 9  | Theory of microwave spectroscopy of Andreev bound states with a Josephson junction. Physical Review B, 2014, 90, .                   | 3.2  | 17        |
| 10 | Searching for thermal signatures of persistent currents in normal-metal rings. Physical Review B, 2013, 87, .                        | 3.2  | 8         |
| 11 | Exciting Andreev pairs in a superconducting atomic contact. Nature, 2013, 499, 312-315.  | 27.8 | 136       |
| 12 | Supercurrent Spectroscopy of Andreev States. Physical Review X, 2013, 3, .   | 8.9  | 49        |
| 13 | Superconducting quantum point contacts. Comptes Rendus Physique, 2012, 13, 89-100.   | 0.9  | 9         |
| 14 | Evidence for Long-Lived Quasiparticles Trapped in Superconducting Point Contacts. Physical Review Letters, 2011, 106, 257003.        | 7.8  | 78        |
| 15 | Asymmetric Noise Probed with a Josephson Junction. Physical Review Letters, 2009, 102, 067002.                                       | 7.8  | 33        |
| 16 | Phase Controlled Superconducting Proximity Effect Probed by Tunneling Spectroscopy. Physical Review Letters, 2008, 100, 197002.      | 7.8  | 153       |
| 17 | BLOCH OSCILLATIONS IN A JOSEPHSON CIRCUIT. , 2008, , .   |      | 0         |
| 18 | Voltage-induced Shapiro steps in a superconducting multiterminal structure. Physical Review B, 2007, 75, .                           | 3.2  | 31        |

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|----|---|------|-----------|
| 19 | Current to Frequency Conversion in a Josephson Circuit. Physical Review Letters, 2007, 99, 187005.  | 7.8  | 18        |
| 20 | Measurement of the Current-Phase Relation of Superconducting Atomic Contacts. Physical Review Letters, 2007, 99, 127005.                                      | 7.8  | 104       |
| 21 | Electron heating in metallic resistors at sub-Kelvin temperature. Physical Review B, 2007, 76, .  | 3.2  | 17        |
| 22 | Josephson junctions as detectors for non-Gaussian noise. Annalen Der Physik, 2007, 16, 736-750.   | 2.4  | 35        |
| 23 | Superconducting Atomic Contacts under Microwave Irradiation. Physical Review Letters, 2006, 97, 067006.   | 7.8  | 39        |
| 24 | Effect of Magnetic Impurities on Energy Exchange between Electrons. Physical Review Letters, 2005, 95, 036802.  | 7.8  | 18        |
| 25 | Intensity of Coulomb interaction between quasiparticles in diffusive metallic wires. Solid State Communications, 2004, 131, 599-607.                          | 1.9  | 14        |
| 26 | Manipulation and Readout of a Josephson Qubit. , 2004, , 13-21.   |      | 0         |
| 27 | Towards quantum electrical circuits. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 7-10.   | 2.7  | 2         |
| 28 | Rabi oscillations, Ramsey fringes and spin echoes in an electrical circuit. Fortschritte Der Physik, 2003, 51, 462-468.                                       | 4.4  | 34        |
| 29 | Density of States in a Superconductor Carrying a Supercurrent. Physical Review Letters, 2003, 90, 127001.   | 7.8  | 129       |
| 30 | Dephasing of electrons in mesoscopic metal wires. Physical Review B, 2003, 68, .  | 3.2  | 200       |
| 31 | Magnetic-Field-Dependent Quasiparticle Energy Relaxation in Mesoscopic Wires. Physical Review Letters, 2003, 90, 076806.                                      | 7.8  | 57        |
| 32 | Superconducting quantum bit based on the Cooper pair box. , 2003, , 173-195.  |      | 0         |
| 33 | Signatures of ballistic transport in the magnetoresistance of nanostructures made of single-crystalline refractory metals. Nanotechnology, 2002, 13, 226-230. | 2.6  | 4         |
| 34 | Ramsey Fringe Measurement of Decoherence in a Novel Superconducting Quantum Bit Based on the Cooper Pair Box. Physica Scripta, 2002, T102, 162.               | 2.5  | 3         |
| 35 | Manipulating the Quantum State of an Electrical Circuit. Science, 2002, 296, 886-889.   | 12.6 | 1,425     |
| 36 | Superconducting Electrometer for Measuring the Single Cooper Pair Box. , 2001, , 111-125.   |      | 11        |

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|----|---|-----|-----------|
| 37 | Electrodynamic Dip in the Local Density of States of a Metallic Wire. <i>Physical Review Letters</i> , 2001, 86, 1590-1593.                         | 7.8 | 35        |
| 38 | Multiple Andreev Reflections Revealed by the Energy Distribution of Quasiparticles. <i>Physical Review Letters</i> , 2001, 86, 1078-1081.           | 7.8 | 32        |
| 39 | Probing Interactions in Mesoscopic Gold Wires. , 2001, , 119-132.   |     | 2         |
| 40 | Energy Redistribution Between Quasiparticles in Mesoscopic Silver Wires. <i>Journal of Low Temperature Physics</i> , 2000, 118, 437-445.            | 1.4 | 39        |
| 41 | Comparison of energy and phase relaxation in metallic wires. <i>Journal of Low Temperature Physics</i> , 2000, 118, 447-456.                        | 1.4 | 66        |
| 42 | Energy Distribution Function of Quasiparticles in Mesoscopic Wires. <i>Physical Review Letters</i> , 1997, 79, 3490-3493.                           | 7.8 | 290       |
| 43 | The Proximity Effect in Mesoscopic Diffusive Conductors. , 1997, , 375-406.   |     | 5         |
| 44 | The superconducting proximity effect probed on a mesoscopic length scale. <i>European Physical Journal D</i> , 1996, 46, 2319-2320.                 | 0.4 | 1         |
| 45 | 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        |
| 46 | Superconducting Proximity Effect Probed on a Mesoscopic Length Scale. <i>Physical Review Letters</i> , 1996, 77, 3025-3028.                         | 7.8 | 206       |
| 47 | Flux-Modulated Andreev Current Caused by Electronic Interference. <i>Physical Review Letters</i> , 1994, 73, 2488-2491.                             | 7.8 | 153       |
| 48 | Influence of electronic interferences on the Andreev conductance. <i>Physica B: Condensed Matter</i> , 1994, 203, 226-232.                          | 2.7 | 18        |
| 49 | Single-electron transistors realized in in-plane-gate and top-gate technology. <i>Solid-State Electronics</i> , 1994, 37, 995-999.                  | 1.4 | 4         |
| 50 | Passing electrons one by one: is a $10^{-8}$ accuracy achievable?. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1993, 42, 324-330. | 4.7 | 18        |
| 51 | Realization of an in-plane-gate single-electron transistor. <i>Applied Physics Letters</i> , 1993, 62, 3174-3176.                                   | 3.3 | 17        |
| 52 | Manipulating Electrons One by One. <i>Springer Series in Electrophysics</i> , 1992, , 23-44.  | 0.2 | 1         |
| 53 | Single-Electron Pump Based on Charging Effects. <i>Europhysics Letters</i> , 1992, 17, 249-254.   | 2.0 | 469       |
| 54 | On the observability of Coulomb blockade and single-electron tunneling. <i>Ultramicroscopy</i> , 1992, 42-44, 22-32.                                | 1.9 | 4         |

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|----|---|-----|-----------|
| 55 | Single electron pump fabricated with ultrasmall normal tunnel junctions. Physica B: Condensed Matter, 1991, 169, 573-574.                       | 2.7 | 168       |
| 56 | Single electron tunneling rates in multijunction circuits. European Physical Journal B, 1991, 84, 143-155.                                      | 1.5 | 73        |
| 57 | Direct observation of macroscopic charge quantization. European Physical Journal B, 1991, 85, 327-332.  | 1.5 | 241       |
| 58 | Single Cooper pair pump. European Physical Journal B, 1991, 85, 349-355.  | 1.5 | 70        |
| 59 | Controlled transfer of single charge carriers. IEEE Transactions on Magnetics, 1991, 27, 2578-2580.   | 2.1 | 29        |
| 60 | Observability of the coulomb blockade in single tunnel junctions. Physica B: Condensed Matter, 1990, 165-166, 977-978.                          | 2.7 | 7         |
| 61 | Effect of the electromagnetic environment on the Coulomb blockade in ultrasmall tunnel junctions. Physical Review Letters, 1990, 64, 1824-1827. | 7.8 | 477       |
| 62 | Frequency-locked turnstile device for single electrons. Physical Review Letters, 1990, 64, 2691-2694.   | 7.8 | 541       |