

Pauli Virtanen

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

10,625
citations

22
h-index

75
g-index

75
ext. papers

20,063
ext. citations

6.1
avg, IF

5.81
L-index

| # | Paper | IF | Citations |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 67 | Superconducting spintronic tunnel diode.. <i>Nature Communications</i> , 2022 , 13, 2431 | 17.4 | 2 |
| 66 | Coexistence of superconductivity and spin-splitting fields in superconductor/ferromagnetic insulator bilayers of arbitrary thickness. <i>Physical Review Research</i> , 2021 , 3, | 3.9 | 6 |
| 65 | Giant enhancement to spin battery effect in superconductor/ferromagnetic insulator systems. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 2 |
| 64 | Quasiclassical free energy of superconductors: Disorder-driven first-order phase transition in superconductor/ferromagnetic-insulator bilayers. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 63 | Nonlinear spin torque, pumping, and cooling in superconductor/ferromagnet systems. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 3 |
| 62 | SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020 , 17, 261-272 | 21.6 | 6244 |
| 61 | Effect of disorder on Majorana localization in topological superconductors: A quasiclassical approach. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 60 | Hypersensitive Tunable Josephson Escape Sensor for Gigahertz Astronomy. <i>Physical Review Applied</i> , 2020 , 14, | 4.3 | 4 |
| 59 | Array programming with NumPy. <i>Nature</i> , 2020 , 585, 357-362 | 50.4 | 2950 |
| 58 | Thermal, electric and spin transport in superconductor/ferromagnetic-insulator structures. <i>Progress in Surface Science</i> , 2019 , 94, 100540 | 6.6 | 31 |
| 57 | Superconductivity near a magnetic domain wall. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 8 |
| 56 | Thermodynamic cycles in Josephson junctions. <i>Scientific Reports</i> , 2019 , 9, 3238 | 4.9 | 14 |
| 55 | Magnetotransport Experiments on Fully Metallic Superconducting Dayem-Bridge Field-Effect Transistors. <i>Physical Review Applied</i> , 2019 , 11, | 4.3 | 30 |
| 54 | Nonadiabatic dynamics in strongly driven diffusive Josephson junctions. <i>Physical Review Research</i> , 2019 , 1, | 3.9 | 3 |
| 53 | Thermodynamics of a Phase-Driven Proximity Josephson Junction. <i>Entropy</i> , 2019 , 21, 1005 | 2.8 | 3 |
| 52 | Superconducting size effect in thin films under electric field: Mean-field self-consistent model. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 14 |
| 51 | Majorana bound states in hybrid two-dimensional Josephson junctions with ferromagnetic insulators. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 17 |

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| 50 | On-chip cooling by heating with superconducting tunnel junctions. <i>Europhysics Letters</i> , 2018 , 124, 48005 | 1.6 | 11 |
| 49 | Colloquium: Nonequilibrium effects in superconductors with a spin-splitting field. <i>Reviews of Modern Physics</i> , 2018 , 90, | 40.5 | 57 |
| 48 | Josephson Photodetectors via Temperature-to-Phase Conversion. <i>Physical Review Applied</i> , 2018 , 9, | 4.3 | 14 |
| 47 | Microwave Admittance of Gold-Palladium Nanowires with Proximity-Induced Superconductivity. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600227 | 6.4 | 4 |
| 46 | 0- π -phase-controllable thermal Josephson junction. <i>Nature Nanotechnology</i> , 2017 , 12, 425-429 | 28.7 | 23 |
| 45 | High operating temperature in V-based superconducting quantum interference proximity transistors. <i>Scientific Reports</i> , 2017 , 7, 8810 | 4.9 | 11 |
| 44 | Spin Pumping and Torque Statistics in the Quantum Noise Limit. <i>Physical Review Letters</i> , 2017 , 118, 237701 | 7.1 | 4 |
| 43 | Spectral representation of the heat current in a driven Josephson junction. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 8 |
| 42 | Phase-driven collapse of the Cooper condensate in a nanosized superconductor. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 12 |
| 41 | Quasiparticle entropy in superconductor/normal metal/superconductor proximity junctions in the diffusive limit. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 8 |
| 40 | Stimulated quasiparticles in spin-split superconductors. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 12 |
| 39 | Spectral Characteristics of a Fully Superconducting SQUIPT. <i>Physical Review Applied</i> , 2016 , 6, | 4.3 | 13 |
| 38 | Self-Oscillating Josephson Quantum Heat Engine. <i>Physical Review Applied</i> , 2016 , 6, | 4.3 | 35 |
| 37 | Spin Hanle effect in mesoscopic superconductors. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 9 |
| 36 | Long-range spin accumulation from heat injection in mesoscopic superconductors with Zeeman splitting. <i>Physical Review Letters</i> , 2015 , 114, 167002 | 7.4 | 36 |
| 35 | Controlling spin polarization of a quantum dot via a helical edge state. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 9 |
| 34 | Coupling between electrons and optical phonons in suspended bilayer graphene. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 20 |
| 33 | Fluctuation of heat current in Josephson junctions. <i>AIP Advances</i> , 2015 , 5, 027140 | 1.5 | 7 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 32 | Predicted very large thermoelectric effect in ferromagnet-superconductor junctions in the presence of a spin-splitting magnetic field. <i>Physical Review Letters</i> , 2014 , 112, 057001 | 7.4 | 102 |
| 31 | Electron-phonon coupling in suspended graphene: supercollisions by ripples. <i>Nano Letters</i> , 2014 , 14, 3009-13 | 11.5 | 47 |
| 30 | Lindblad-equation approach for the full counting statistics of work and heat in driven quantum systems. <i>Physical Review E</i> , 2014 , 90, 022103 | 2.4 | 47 |
| 29 | Thermal transport through ac-driven transparent Josephson weak links. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 4 |
| 28 | Energy transport via multiphonon processes in graphene. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 8 |
| 27 | Microwave nanobolometer based on proximity Josephson junctions. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 28 |
| 26 | Microwave spectroscopy of Josephson junctions in topological superconductors. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 26 |
| 25 | Induced superconductivity in the three-dimensional topological insulator HgTe. <i>Physical Review Letters</i> , 2012 , 109, 186806 | 7.4 | 51 |
| 24 | Absorption of heat into a superconductor-normal metal-superconductor junction from a fluctuating environment. <i>Physical Review Letters</i> , 2012 , 109, 067002 | 7.4 | 2 |
| 23 | Signatures of Rashba spin-orbit interaction in the superconducting proximity effect in helical Luttinger liquids. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 26 |
| 22 | Probing the dynamics of Andreev states in a coherent normal/superconducting ring. <i>Scientific Reports</i> , 2011 , 1, 3 | 4.9 | 23 |
| 21 | Supercurrent and Andreev bound state dynamics in superconducting quantum point contacts under microwave irradiation. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 19 |
| 20 | Thermal fluctuations and flux-tunable barrier in proximity Josephson junctions. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 2 |
| 19 | Linear ac response of diffusive SNS junctions. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 19 |
| 18 | Dephasing of spin and charge interference in helical Luttinger liquids. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 21 |
| 17 | Theory of microwave-assisted supercurrent in quantum point contacts. <i>Physical Review Letters</i> , 2010 , 105, 117001 | 7.4 | 31 |
| 16 | Thermal conductance by the inverse proximity effect in a superconductor. <i>Physical Review Letters</i> , 2010 , 105, 097004 | 7.4 | 24 |
| 15 | Theory of microwave-assisted supercurrent in diffusive SNS junctions. <i>Physical Review Letters</i> , 2010 , 104, 247003 | 7.4 | 20 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 14 | Electron-phonon coupling in single-walled carbon nanotubes determined by shot noise. <i>Applied Physics Letters</i> , 2010 , 97, 262115 | 3.4 | 9 |
| 13 | Local and non-local shot noise in multiwalled carbon nanotubes. <i>Europhysics Letters</i> , 2009 , 85, 37004 | 1.6 | 1 |
| 12 | Nonequilibrium transport in mesoscopic multi-terminal SNS Josephson junctions. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 20 |
| 11 | Thermoelectric effects in superconducting proximity structures. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 625-637 | 2.6 | 36 |
| 10 | Influence of Supercurrents on Low-temperature Thermopower in Mesoscopic N/S Structures. <i>Journal of Low Temperature Physics</i> , 2007 , 146, 193-212 | 1.3 | 2 |
| 9 | Nonequilibrium characteristics in all-superconducting tunnel structures. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 7 |
| 8 | Peltier effects in Andreev interferometers. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 4 |
| 7 | Phase-dependent noise correlations in normal-superconducting structures. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 3 |
| 6 | Phase states of multiterminal mesoscopic normal-metal-superconductor structures. <i>Physical Review Letters</i> , 2007 , 99, 217003 | 7.4 | 1 |
| 5 | Circuit theory for noise in incoherent normal-superconducting structures. <i>New Journal of Physics</i> , 2006 , 8, 50-50 | 2.9 | 3 |
| 4 | Supercurrent-induced temperature gradient across a nonequilibrium SNS Josephson junction. <i>Physical Review Letters</i> , 2006 , 96, 167004 | 7.4 | 8 |
| 3 | Thermopower induced by a supercurrent in superconductor-normal-metal structures. <i>Physical Review Letters</i> , 2004 , 92, 177004 | 7.4 | 38 |
| 2 | Measuring non-Gaussian fluctuations through incoherent cooper-pair current. <i>Physical Review Letters</i> , 2004 , 93, 247005 | 7.4 | 34 |
| 1 | Thermopower in Andrew Interferometers. <i>Journal of Low Temperature Physics</i> , 2004 , 136, 401-434 | 1.3 | 20 |