

Pauli Virtanen

List of Publications by Citations

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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	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020 , 17, 261-272	21.6	6244
66	Array programming with NumPy. <i>Nature</i> , 2020 , 585, 357-362	50.4	2950
65	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
64	Colloquium: Nonequilibrium effects in superconductors with a spin-splitting field. <i>Reviews of Modern Physics</i> , 2018 , 90,	40.5	57
63	Induced superconductivity in the three-dimensional topological insulator HgTe. <i>Physical Review Letters</i> , 2012 , 109, 186806	7.4	51
62	Electron-phonon coupling in suspended graphene: supercollisions by ripples. <i>Nano Letters</i> , 2014 , 14, 3009-13	11.5	47
61	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
60	Thermopower induced by a supercurrent in superconductor-normal-metal structures. <i>Physical Review Letters</i> , 2004 , 92, 177004	7.4	38
59	Long-range spin accumulation from heat injection in mesoscopic superconductors with Zeeman splitting. <i>Physical Review Letters</i> , 2015 , 114, 167002	7.4	36
58	Thermoelectric effects in superconducting proximity structures. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 625-637	2.6	36
57	Self-Oscillating Josephson Quantum Heat Engine. <i>Physical Review Applied</i> , 2016 , 6,	4.3	35
56	Measuring non-Gaussian fluctuations through incoherent cooper-pair current. <i>Physical Review Letters</i> , 2004 , 93, 247005	7.4	34
55	Thermal, electric and spin transport in superconductor/ferromagnetic-insulator structures. <i>Progress in Surface Science</i> , 2019 , 94, 100540	6.6	31
54	Theory of microwave-assisted supercurrent in quantum point contacts. <i>Physical Review Letters</i> , 2010 , 105, 117001	7.4	31
53	Magnetotransport Experiments on Fully Metallic Superconducting Dayem-Bridge Field-Effect Transistors. <i>Physical Review Applied</i> , 2019 , 11,	4.3	30
52	Microwave nanobolometer based on proximity Josephson junctions. <i>Physical Review B</i> , 2014 , 90,	3.3	28
51	Microwave spectroscopy of Josephson junctions in topological superconductors. <i>Physical Review B</i> , 2013 , 88,	3.3	26

50	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
49	Thermal conductance by the inverse proximity effect in a superconductor. <i>Physical Review Letters</i> , 2010 , 105, 097004	7.4	24
48	0-Phase-controllable thermal Josephson junction. <i>Nature Nanotechnology</i> , 2017 , 12, 425-429	28.7	23
47	Probing the dynamics of Andreev states in a coherent normal/superconducting ring. <i>Scientific Reports</i> , 2011 , 1, 3	4.9	23
46	Dephasing of spin and charge interference in helical Luttinger liquids. <i>Physical Review B</i> , 2011 , 83,	3.3	21
45	Coupling between electrons and optical phonons in suspended bilayer graphene. <i>Physical Review B</i> , 2015 , 91,	3.3	20
44	Theory of microwave-assisted supercurrent in diffusive SNS junctions. <i>Physical Review Letters</i> , 2010 , 104, 247003	7.4	20
43	Nonequilibrium transport in mesoscopic multi-terminal SNS Josephson junctions. <i>Physical Review B</i> , 2008 , 77,	3.3	20
42	Thermopower in Andreev Interferometers. <i>Journal of Low Temperature Physics</i> , 2004 , 136, 401-434	1.3	20
41	Supercurrent and Andreev bound state dynamics in superconducting quantum point contacts under microwave irradiation. <i>Physical Review B</i> , 2011 , 84,	3.3	19
40	Linear ac response of diffusive SNS junctions. <i>Physical Review B</i> , 2011 , 83,	3.3	19
39	Majorana bound states in hybrid two-dimensional Josephson junctions with ferromagnetic insulators. <i>Physical Review B</i> , 2018 , 98,	3.3	17
38	Thermodynamic cycles in Josephson junctions. <i>Scientific Reports</i> , 2019 , 9, 3238	4.9	14
37	Superconducting size effect in thin films under electric field: Mean-field self-consistent model. <i>Physical Review B</i> , 2019 , 100,	3.3	14
36	Josephson Photodetectors via Temperature-to-Phase Conversion. <i>Physical Review Applied</i> , 2018 , 9,	4.3	14
35	Spectral Characteristics of a Fully Superconducting SQUIPT. <i>Physical Review Applied</i> , 2016 , 6,	4.3	13
34	Stimulated quasiparticles in spin-split superconductors. <i>Physical Review B</i> , 2016 , 93,	3.3	12
33	Phase-driven collapse of the Cooper condensate in a nanosized superconductor. <i>Physical Review B</i> , 2017 , 96,	3.3	12

32	High operating temperature in V-based superconducting quantum interference proximity transistors. <i>Scientific Reports</i> , 2017 , 7, 8810	4.9	11
31	On-chip cooling by heating with superconducting tunnel junctions. <i>Europhysics Letters</i> , 2018 , 124, 48005	1.6	11
30	Spin Hanle effect in mesoscopic superconductors. <i>Physical Review B</i> , 2015 , 91,	3.3	9
29	Controlling spin polarization of a quantum dot via a helical edge state. <i>Physical Review B</i> , 2015 , 92,	3.3	9
28	Electron-phonon coupling in single-walled carbon nanotubes determined by shot noise. <i>Applied Physics Letters</i> , 2010 , 97, 262115	3.4	9
27	Superconductivity near a magnetic domain wall. <i>Physical Review B</i> , 2019 , 99,	3.3	8
26	Spectral representation of the heat current in a driven Josephson junction. <i>Physical Review B</i> , 2017 , 95,	3.3	8
25	Quasiparticle entropy in superconductor/normal metal/superconductor proximity junctions in the diffusive limit. <i>Physical Review B</i> , 2017 , 96,	3.3	8
24	Energy transport via multiphonon processes in graphene. <i>Physical Review B</i> , 2014 , 89,	3.3	8
23	Supercurrent-induced temperature gradient across a nonequilibrium SNS Josephson junction. <i>Physical Review Letters</i> , 2006 , 96, 167004	7.4	8
22	Fluctuation of heat current in Josephson junctions. <i>AIP Advances</i> , 2015 , 5, 027140	1.5	7
21	Nonequilibrium characteristics in all-superconducting tunnel structures. <i>Physical Review B</i> , 2007 , 75,	3.3	7
20	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
19	Microwave Admittance of Gold-Palladium Nanowires with Proximity-Induced Superconductivity. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600227	6.4	4
18	Spin Pumping and Torque Statistics in the Quantum Noise Limit. <i>Physical Review Letters</i> , 2017 , 118, 237701	7.1	4
17	Thermal transport through ac-driven transparent Josephson weak links. <i>Physical Review B</i> , 2014 , 90,	3.3	4
16	Peltier effects in Andreev interferometers. <i>Physical Review B</i> , 2007 , 75,	3.3	4
15	Hypersensitive Tunable Josephson Escape Sensor for Gigahertz Astronomy. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4

14	Nonlinear spin torque, pumping, and cooling in superconductor/ferromagnet systems. <i>Physical Review B</i> , 2020 , 101,	3.3	3
13	Circuit theory for noise in incoherent normal-superconducting structures. <i>New Journal of Physics</i> , 2006 , 8, 50-50	2.9	3
12	Phase-dependent noise correlations in normal-superconducting structures. <i>Physical Review B</i> , 2007 , 76,	3.3	3
11	Nonadiabatic dynamics in strongly driven diffusive Josephson junctions. <i>Physical Review Research</i> , 2019 , 1,	3.9	3
10	Thermodynamics of a Phase-Driven Proximity Josephson Junction. <i>Entropy</i> , 2019 , 21, 1005	2.8	3
9	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
8	Thermal fluctuations and flux-tunable barrier in proximity Josephson junctions. <i>Physical Review B</i> , 2011 , 84,	3.3	2
7	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
6	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
5	Giant enhancement to spin battery effect in superconductor/ferromagnetic insulator systems. <i>Physical Review B</i> , 2021 , 103,	3.3	2
4	Superconducting spintronic tunnel diode.. <i>Nature Communications</i> , 2022 , 13, 2431	17.4	2
3	Local and non-local shot noise in multiwalled carbon nanotubes. <i>Europhysics Letters</i> , 2009 , 85, 37004	1.6	1
2	Phase states of multiterminal mesoscopic normal-metal-superconductor structures. <i>Physical Review Letters</i> , 2007 , 99, 217003	7.4	1
1	Effect of disorder on Majorana localization in topological superconductors: A quasiclassical approach. <i>Physical Review B</i> , 2020 , 102,	3.3	1