List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2373962/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Phase-dependent microwave response of a graphene Josephson junction. Physical Review Research, 2022, 4, .	3.6	13
2	Current Rectification in Junctions with Spin-Split Superconductors. Physical Review Applied, 2022, 17, .	3.8	6
3	Superconducting spintronic tunnel diode. Nature Communications, 2022, 13, 2431.	12.8	27
4	Nonlinear <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>ïf </mml:mi> model for disordered systems with intrinsic spin-orbit coupling. Physical Review B, 2022, 105, .</mml:math 	3.2	3
5	Coexistence of superconductivity and spin-splitting fields in superconductor/ferromagnetic insulator bilayers of arbitrary thickness. Physical Review Research, 2021, 3, .	3.6	25
6	Giant enhancement to spin battery effect in superconductor/ferromagnetic insulator systems. Physical Review B, 2021, 103, .	3.2	10
7	Microwave photoassisted dissipation and supercurrent of a phase-biased graphene-superconductor ring. Physical Review Research, 2021, 3, .	3.6	6
8	Magnetoelectric effects in superconductors due to spin-orbit scattering: Nonlinear <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mi>Ïf </mml:mi>  -model description. Physical Review B, 2021, 104, .</mml:math 	3.2	6
9	Hypersensitive Tunable Josephson Escape Sensor for Gigahertz Astronomy. Physical Review Applied, 2020, 14, .	3.8	10
10	Array programming with NumPy. Nature, 2020, 585, 357-362.	27.8	10,143
11	Quasiclassical free energy of superconductors: Disorder-driven first-order phase transition in superconductor/ferromagnetic-insulator bilayers. Physical Review B, 2020, 101, .	3.2	9
12	Nonlinear spin torque, pumping, and cooling in superconductor/ferromagnet systems. Physical Review B, 2020, 101, .	3.2	8
13	SciPy 1.0: fundamental algorithms for scientific computing in Python. Nature Methods, 2020, 17, 261-272.	19.0	17,539
14	Effect of disorder on Majorana localization in topological superconductors: A quasiclassical approach. Physical Review B, 2020, 102, .	3.2	6
15	Thermal, electric and spin transport in superconductor/ferromagnetic-insulator structures. Progress in Surface Science, 2019, 94, 100540.	8.3	64
16	Superconductivity near a magnetic domain wall. Physical Review B, 2019, 99, .	3.2	17
17	Thermodynamic cycles in Josephson junctions. Scientific Reports, 2019, 9, 3238.	3.3	23
18	Magnetotransport Experiments on Fully Metallic Superconducting Dayem-Bridge Field-Effect Transistors. Physical Review Applied, 2019, 11, .	3.8	44

#	Article	IF	CITATIONS
19	Thermodynamics of a Phase-Driven Proximity Josephson Junction. Entropy, 2019, 21, 1005.	2.2	5
20	Superconducting size effect in thin films under electric field: Mean-field self-consistent model. Physical Review B, 2019, 100, .	3.2	20
21	Nonadiabatic dynamics in strongly driven diffusive Josephson junctions. Physical Review Research, 2019, 1, .	3.6	8
22	On-chip cooling by heating with superconducting tunnel junctions. Europhysics Letters, 2018, 124, 48005.	2.0	14
23	<i>Colloquium</i> : Nonequilibrium effects in superconductors with a spin-splitting field. Reviews of Modern Physics, 2018, 90, .	45.6	127
24	Josephson Photodetectors via Temperature-to-Phase Conversion. Physical Review Applied, 2018, 9, .	3.8	18
25	Majorana bound states in hybrid two-dimensional Josephson junctions with ferromagnetic insulators. Physical Review B, 2018, 98, .	3.2	20
26	Microwave Admittance of Goldâ€Palladium Nanowires with Proximityâ€Induced Superconductivity. Advanced Electronic Materials, 2017, 3, 1600227.	5.1	7
27	Nanoelectronic Devices: Microwave Admittance of Goldâ€Palladium Nanowires with Proximityâ€Induced Superconductivity (Adv. Electron. Mater. 6/2017). Advanced Electronic Materials, 2017, 3, .	5.1	Ο
28	0–π phase-controllable thermal Josephson junction. Nature Nanotechnology, 2017, 12, 425-429.	31.5	34
29	High operating temperature in V-based superconducting quantum interference proximity transistors. Scientific Reports, 2017, 7, 8810.	3.3	14
30	Spin Pumping and Torque Statistics in the Quantum Noise Limit. Physical Review Letters, 2017, 118, 237701.	7.8	7
31	Spectral representation of the heat current in a driven Josephson junction. Physical Review B, 2017, 95, .	3.2	8
32	Phase-driven collapse of the Cooper condensate in a nanosized superconductor. Physical Review B, 2017, 96, .	3.2	17
33	Quasiparticle entropy in superconductor/normal metal/superconductor proximity junctions in the diffusive limit. Physical Review B, 2017, 96, .	3.2	10
34	Self-Oscillating Josephson Quantum Heat Engine. Physical Review Applied, 2016, 6, .	3.8	46
35	Stimulated quasiparticles in spin-split superconductors. Physical Review B, 2016, 93, .	3.2	13
36	Spectral Characteristics of a Fully Superconducting SQUIPT. Physical Review Applied, 2016, 6, .	3.8	17

#	Article	IF	CITATIONS
37	Controlling spin polarization of a quantum dot via a helical edge state. Physical Review B, 2015, 92, .	3.2	13
38	Coupling between electrons and optical phonons in suspended bilayer graphene. Physical Review B, 2015, 91, .	3.2	24
39	Fluctuation of heat current in Josephson junctions. AIP Advances, 2015, 5, 027140.	1.3	7
40	Spin Hanle effect in mesoscopic superconductors. Physical Review B, 2015, 91, .	3.2	11
41	Long-Range Spin Accumulation from Heat Injection in Mesoscopic Superconductors with Zeeman Splitting. Physical Review Letters, 2015, 114, 167002.	7.8	39
42	Thermal transport through ac-driven transparent Josephson weak links. Physical Review B, 2014, 90, .	3.2	4
43	Energy transport via multiphonon processes in graphene. Physical Review B, 2014, 89, .	3.2	9
44	Microwave nanobolometer based on proximity Josephson junctions. Physical Review B, 2014, 90, .	3.2	30
45	Predicted Very Large Thermoelectric Effect in Ferromagnet-Superconductor Junctions in the Presence of a Spin-Splitting Magnetic Field. Physical Review Letters, 2014, 112, 057001.	7.8	143
46	Electron–Phonon Coupling in Suspended Graphene: Supercollisions by Ripples. Nano Letters, 2014, 14, 3009-3013.	9.1	52
47	Lindblad-equation approach for the full counting statistics of work and heat in driven quantum systems. Physical Review E, 2014, 90, 022103.	2.1	52
48	Microwave spectroscopy of Josephson junctions in topological superconductors. Physical Review B, 2013, 88, .	3.2	34
49	Absorption of Heat into a Superconductor–Normal Metal–Superconductor Junction from a Fluctuating Environment. Physical Review Letters, 2012, 109, 067002.	7.8	2
50	Signatures of Rashba spin-orbit interaction in the superconducting proximity effect in helical Luttinger liquids. Physical Review B, 2012, 85, .	3.2	31
51	Induced Superconductivity in the Three-Dimensional Topological Insulator HgTe. Physical Review Letters, 2012, 109, 186806.	7.8	63
52	Supercurrent and Andreev bound state dynamics in superconducting quantum point contacts under microwave irradiation. Physical Review B, 2011, 84, .	3.2	24
53	Probing the dynamics of Andreev states in a coherent Normal/Superconducting ring. Scientific Reports, 2011, 1, 3.	3.3	28
54	Thermal fluctuations and flux-tunable barrier in proximity Josephson junctions. Physical Review B, 2011, 84, .	3.2	2

#	Article	IF	CITATIONS
55	Linear ac response of diffusive SNS junctions. Physical Review B, 2011, 83, .	3.2	22
56	Dephasing of spin and charge interference in helical Luttinger liquids. Physical Review B, 2011, 83, .	3.2	25
57	Theory of Microwave-Assisted Supercurrent in Quantum Point Contacts. Physical Review Letters, 2010, 105, 117001.	7.8	37
58	Thermal Conductance by the Inverse Proximity Effect in a Superconductor. Physical Review Letters, 2010, 105, 097004.	7.8	27
59	Theory of Microwave-Assisted Supercurrent in Diffusive SNS Junctions. Physical Review Letters, 2010, 104, 247003.	7.8	28
60	Electron-phonon coupling in single-walled carbon nanotubes determined by shot noise. Applied Physics Letters, 2010, 97, 262115.	3.3	10
61	Local and non-local shot noise in multiwalled carbon nanotubes. Europhysics Letters, 2009, 85, 37004.	2.0	1
62	Nonequilibrium transport in mesoscopic multi-terminal SNS Josephson junctions. Physical Review B, 2008, 77, .	3.2	27
63	Nonequilibrium characteristics in all-superconducting tunnel structures. Physical Review B, 2007, 75,	3.2	7
64	Peltier effects in Andreev interferometers. Physical Review B, 2007, 75, .	3.2	4
65	Phase-dependent noise correlations in normal-superconducting structures. Physical Review B, 2007, 76, .	3.2	3
66	Phase States of Multiterminal Mesoscopic Normal-Metal–Superconductor Structures. Physical Review Letters, 2007, 99, 217003.	7.8	1
67	Thermoelectric effects in superconducting proximity structures. Applied Physics A: Materials Science and Processing, 2007, 89, 625-637.	2.3	43
68	Influence of Supercurrents on Low-temperature Thermopower in Mesoscopic N/S Structures. Journal of Low Temperature Physics, 2007, 146, 193-212.	1.4	2
69	Rectifying Non-Gaussian Noise with Incoherent Cooper Pair Tunneling. AIP Conference Proceedings, 2006, , .	0.4	0
70	Circuit theory for noise in incoherent normal-superconducting structures. New Journal of Physics, 2006, 8, 50-50.	2.9	3
71	Supercurrent-Induced Temperature Gradient across a Nonequilibrium SNS Josephson Junction. Physical Review Letters, 2006, 96, 167004.	7.8	11
72	Thermopower Induced by a Supercurrent in Superconductor–Normal-Metal Structures. Physical Review Letters, 2004, 92, 177004.	7.8	42

#	Article	IF	CITATIONS
73	Measuring Non-Gaussian Fluctuations through Incoherent Cooper-Pair Current. Physical Review Letters, 2004, 93, 247005.	7.8	37
74	Thermopower in Andrew Interferometers. Journal of Low Temperature Physics, 2004, 136, 401-434.	1.4	23