

Benjamin Sacepe

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,424
citations

279798

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315739

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all docs

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docs citations

42
times ranked

3052
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging tunable quantum Hall broken-symmetry orders in graphene. <i>Nature</i> , 2022, 605, 51-56.	27.8	30
2	A tunable Fabry-Pérot quantum Hall interferometer in graphene. <i>Nature Nanotechnology</i> , 2021, 16, 555-562.	31.5	40
3	Thermal Relaxation in Metal Films Limited by Diffuson Lattice Excitations of Amorphous Substrates. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
4	Quantum breakdown of superconductivity in low-dimensional materials. <i>Nature Physics</i> , 2020, 16, 734-746.	16.7	80
5	Deficiency of the scaling collapse as an indicator of a superconductor-insulator quantum phase transition. <i>Physical Review B</i> , 2020, 101, .	3.2	3
6	Helical quantum Hall phase in graphene on SrTiO ₃ . <i>Science</i> , 2020, 367, 781-786.	12.6	64
7	Joule overheating poisons the fractional ac Josephson effect in topological Josephson junctions. <i>Communications Physics</i> , 2019, 2, .	5.3	36
8	Sensitivity of the superconducting state in thin films. <i>Science Advances</i> , 2019, 5, eaau3826.	10.3	54
9	Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1804378.	14.9	37
10	Low-Magnetic-Field Regime of a Gate-Defined Constriction in High-Mobility Graphene. <i>Nano Letters</i> , 2019, 19, 635-642.	9.1	12
11	Collective energy gap of preformed Cooper pairs in disordered superconductors. <i>Nature Physics</i> , 2019, 15, 233-236.	16.7	49
12	Low-temperature anomaly in disordered superconductors near B _{c2} as a vortex-glass property. <i>Nature Physics</i> , 2019, 15, 48-53.	16.7	17
13	Pair-breaking quantum phase transition in superconducting nanowires. <i>Nature Physics</i> , 2018, 14, 912-917.	16.7	12
14	Tunable sub-gap radiation detection with superconducting resonators. <i>Superconductor Science and Technology</i> , 2017, 30, 045007.	3.5	16
15	Tunable transmission of quantum Hall edge channels with full degeneracy lifting in split-gated graphene devices. <i>Nature Communications</i> , 2017, 8, 14983.	12.8	35
16	Instability of Insulators near Quantum Phase Transitions. <i>Physical Review Letters</i> , 2017, 119, 247001.	7.8	7
17	Relaxation of the resistive superconducting state in boron-doped diamond films. <i>Physical Review B</i> , 2016, 93, .	3.2	9
18	Interplay between electron overheating and ac Josephson effect. <i>Physical Review B</i> , 2016, 93, .	3.2	22

#	ARTICLE	IF	CITATIONS
19	Disorder and screening in decoupled graphene on a metallic substrate. Physical Review B, 2015, 91, .	3.2	11
20	High-field termination of a Cooper-pair insulator. Physical Review B, 2015, 91, .	3.2	23
21	Evidence for a Finite-Temperature Insulator. Scientific Reports, 2015, 5, 13503.	3.3	84
22	Collapse of superconductivity in a hybrid tin-graphene Josephson junction array. Nature Physics, 2014, 10, 380-386.	16.7	110
23	Duality symmetry and its breakdown in the vicinity of the superconductor-insulator transition. Nature Physics, 2013, 9, 415-418.	16.7	40
24	Niobium-based superconducting nano-device fabrication using all-metal suspended masks. Nanotechnology, 2013, 24, 375304.	2.6	12
25	Localization of preformed Cooper pairs in disordered superconductors. Nature Physics, 2011, 7, 239-244.	16.7	300
26	Transport through Graphene on SrTiO_3 . Physical Review Letters, 2011, 107, 225501.	7.8	93
27	Gate-tuned normal and superconducting transport at the surface of a topological insulator. Nature Communications, 2011, 2, 575.	12.8	246
28	Two-Dimensional Quantum Oscillations of the Conductance at LaAlO_3 . Physical Review Letters, 2010, 105, 236802.	7.8	227
29	Pseudogap in a thin film of a conventional superconductor. Nature Communications, 2010, 1, 140.	12.8	149
30	Magnetotransport through graphene nanoribbons. Physical Review B, 2010, 81, .	3.2	82
31	Electron-Phonon Decoupling in Disordered Insulators. Physical Review Letters, 2009, 102, 176802.	7.8	85
32	Disorder-Induced Inhomogeneities of the Superconducting State Close to the Superconductor-Insulator Transition. Physical Review Letters, 2008, 101, 157006.	7.8	274
33	Metal-to-insulator transition and superconductivity in boron-doped diamond. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 267-279.	3.4	49
34	Superconducting diamagnetic fluctuations in ropes of carbon nanotubes. Physical Review B, 2006, 73, .	3.2	21
35	Tunneling Spectroscopy and Vortex Imaging in Boron-Doped Diamond. Physical Review Letters, 2006, 96, 097006.	7.8	71
36	Scanning Tunneling Spectroscopy on a Disordered Superconductor. AIP Conference Proceedings, 2006, , .	0.4	2

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37	Experimental indications of a BCS behaviour in superconducting diamond. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3315-3323.	1.8	10
38	Generalized ellipsometry for the characterization of anisotropic materials: influence of the sample adjustment on the extracted optical indices. Thin Solid Films, 2004, 455-456, 581-585.	1.8	5