

Tomas Lofwander

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47 papers	3,539 citations	19 h-index	56 g-index
56 ext. papers	3,985 ext. citations	4.3 avg, IF	4.67 L-index

#	Paper	IF	Citations
47	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
46	Triplet supercurrents in clean and disordered half-metallic ferromagnets. <i>Nature Physics</i> , 2008 , 4, 138-143	16.2	292
45	Andreev bound states in high-Tc superconducting junctions. <i>Superconductor Science and Technology</i> , 2001 , 14, R53-R77	3.1	222
44	Symmetries of Pairing Correlations in Superconductor/Ferromagnet Nanostructures. <i>Journal of Low Temperature Physics</i> , 2007 , 147, 457-476	1.3	149
43	Interplay of magnetic and superconducting proximity effects in ferromagnet-superconductor-ferromagnet trilayers. <i>Physical Review Letters</i> , 2005 , 95, 187003	7.4	88
42	Observation of periodic π -phase shifts in ferromagnet-superconductor multilayers. <i>Physical Review B</i> , 2006 , 73,	3.3	83
41	Impurity scattering and Mott's formula in graphene. <i>Physical Review B</i> , 2007 , 76,	3.3	70
40	Nonequilibrium superconductivity near spin-active interfaces. <i>Physical Review B</i> , 2004 , 70,	3.3	69
39	Phase modulated thermal conductance of Josephson weak links. <i>Physical Review Letters</i> , 2003 , 91, 077003	7.4	46
38	Heat transport through Josephson point contacts. <i>Physical Review B</i> , 2004 , 69,	3.3	40
37	0- π Transitions in a superconductor/chiral ferromagnet/superconductor junction induced by a homogeneous cycloidal spiral. <i>Physical Review Letters</i> , 2008 , 100, 077003	7.4	39
36	Time-reversal symmetry breaking at Josephson tunnel junctions of purely d-wave superconductors. <i>Physical Review B</i> , 2000 , 62, R14653-R14656	3.3	32
35	Spontaneously broken time-reversal symmetry in high-temperature superconductors. <i>Nature Physics</i> , 2015 , 11, 755-760	16.2	30
34	Theory of superconductor-ferromagnet point-contact spectra: The case of strong spin polarization. <i>Physical Review B</i> , 2010 , 81,	3.3	30
33	Is CrO ₂ fully spin polarized? Analysis of Andreev spectra and excess current. <i>Physical Review Letters</i> , 2010 , 105, 207001	7.4	30
32	Spectrum of Andreev bound states in a molecule embedded inside a microwave-excited superconducting junction. <i>Physical Review Letters</i> , 2008 , 101, 087002	7.4	28
31	Graphene nanogap for gate-tunable quantum-coherent single-molecule electronics. <i>Physical Review B</i> , 2011 , 84,	3.3	24

30	Phase diagrams of ferromagnet-superconductor multilayers with misaligned exchange fields. <i>Physical Review B</i> , 2007 , 75,	3.3	24
29	ac Josephson effect in superconducting d-wave junctions. <i>Physical Review B</i> , 1999 , 59, 4412-4426	3.3	22
28	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013 , 87,	3.3	19
27	Superconducting d-wave junctions: The disappearance of the odd ac components. <i>Physical Review B</i> , 1998 , 57, R3225-R3228	3.3	18
26	Inverse proximity effect and influence of disorder on triplet supercurrents in strongly spin-polarized ferromagnets. <i>Physical Review B</i> , 2013 , 88,	3.3	17
25	Hot spot formation in electron-doped PCCO nanobridges. <i>Physical Review B</i> , 2016 , 94,	3.3	16
24	Large thermoelectric effects in unconventional superconductors. <i>Physical Review B</i> , 2004 , 70,	3.3	13
23	Andreev spectroscopy of CrO ₂ thin films on TiO ₂ and Al ₂ O ₃ . <i>Europhysics Letters</i> , 2013 , 103, 67005	1.6	12
22	Proximity effect in normal metal/high-T _c superconductor contacts. <i>Physical Review B</i> , 2004 , 70,	3.3	11
21	Spectral footprints of impurity scattering in graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87,	3.3	9
20	Resonant second-harmonic generation in a ballistic graphene transistor with an ac-driven gate. <i>Physical Review B</i> , 2016 , 93,	3.3	7
19	Broken translational symmetry at edges of high-temperature superconductors. <i>Nature Communications</i> , 2018 , 9, 2190	17.4	7
18	Low-temperature thermal conductivity of superconductors with gap nodes. <i>Physical Review Letters</i> , 2005 , 95, 107006	7.4	7
17	Current-Voltage Relations in d-wave Josephson Junctions: Effects of Midgap Interface States. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 593-597	1.3	7
16	Shot noise in normal metal/d-wave superconducting junctions. <i>Physical Review B</i> , 2003 , 68,	3.3	6
15	Resonant transport through midgap states in voltage-biased Josephson junctions of d-wave superconductors. <i>Superlattices and Microstructures</i> , 1999 , 25, 1115-1124	2.8	6
14	Spontaneous generation of fractional vortex-antivortex pairs at single edges of high-T _c superconductors. <i>Journal of Physics: Conference Series</i> , 2018 , 969, 012037	0.3	6
13	Spin imbalance in hybrid superconducting structures with spin-active interfaces. <i>Physical Review B</i> , 2014 , 90,	3.3	5

12	Influence of [0001] tilt grain boundaries on the destruction of the quantum Hall effect in graphene. <i>Physical Review B</i> , 2015 , 91,	3-3	5
11	Interplay between single-particle and two-particle tunneling in normal metal/d-wave superconductor junctions probed by shot noise. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 367, 86-91	1-3	5
10	Impurity scattering and size quantization effects in a single graphene nanoflake. <i>Physical Review B</i> , 2017 , 95,	3-3	4
9	Spontaneous symmetry breaking at surfaces of d-wave superconductors: Influence of geometry and surface ruggedness. <i>Physical Review B</i> , 2019 , 99,	3-3	4
8	Nonlinear response of a ballistic graphene transistor with an ac-driven gate: High harmonic generation and terahertz detection. <i>Physical Review B</i> , 2016 , 94,	3-3	4
7	Spin-polarized currents and noise in normal-metal/superconductor junctions with Yu-Shiba-Rusinov impurities. <i>Physical Review B</i> , 2016 , 94,	3-3	3
6	Shot noise in a harmonically driven ballistic graphene transistor. <i>Physical Review B</i> , 2017 , 95,	3-3	3
5	Spectral properties of superconductors with ferromagnetically ordered magnetic impurities. <i>Physical Review B</i> , 2015 , 92,	3-3	2
4	Quasiclassical Theory of Spin Imbalance in a Normal Metal-Superconductor Heterostructure with a Spin-Active Interface. <i>Journal of Physics: Conference Series</i> , 2014 , 568, 022044	0-3	1
3	Properties of zero-energy surface states in d-wave superconducting junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 255-260	1-3	1
2	Triplet supercurrents in clean and disordered half-metallic ferromagnets		1
1	Highly efficient UV detection in a metal/semiconductor/metal detector with epigraphene. <i>Applied Physics Letters</i> , 2022 , 120, 191101	3-4	0