

Tomas Lofwander

List of Publications by Year in Descending Order

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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.

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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 | Highly efficient UV detection in a metal-semiconductor-metal detector with epigraphene. <i>Applied Physics Letters</i> , 2022 , 120, 191101 | 3.4 | 0 |
| 46 | 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 |
| 45 | Broken translational symmetry at edges of high-temperature superconductors. <i>Nature Communications</i> , 2018 , 9, 2190 | 17.4 | 7 |
| 44 | Spontaneous generation of fractional vortex-antivortex pairs at single edges of high-Tc superconductors. <i>Journal of Physics: Conference Series</i> , 2018 , 969, 012037 | 0.3 | 6 |
| 43 | Impurity scattering and size quantization effects in a single graphene nanoflake. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 4 |
| 42 | Shot noise in a harmonically driven ballistic graphene transistor. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 3 |
| 41 | Hot spot formation in electron-doped PCCO nanobridges. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 16 |
| 40 | Resonant second-harmonic generation in a ballistic graphene transistor with an ac-driven gate. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 7 |
| 39 | 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 |
| 38 | 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 |
| 37 | Spontaneously broken time-reversal symmetry in high-temperature superconductors. <i>Nature Physics</i> , 2015 , 11, 755-760 | 16.2 | 30 |
| 36 | Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810 | 7.7 | 2015 |
| 35 | 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 |
| 34 | Spectral properties of superconductors with ferromagnetically ordered magnetic impurities. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 2 |
| 33 | Spin imbalance in hybrid superconducting structures with spin-active interfaces. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 5 |
| 32 | 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 |
| 31 | 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 |

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| 30 | 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 |
| 29 | Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 19 |
| 28 | Spectral footprints of impurity scattering in graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 9 |
| 27 | Graphene nanogap for gate-tunable quantum-coherent single-molecule electronics. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 24 |
| 26 | Theory of superconductor-ferromagnet point-contact spectra: The case of strong spin polarization. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 30 |
| 25 | Is CrO ₂ fully spin polarized? Analysis of Andreev spectra and excess current. <i>Physical Review Letters</i> , 2010 , 105, 207001 | 7.4 | 30 |
| 24 | Triplet supercurrents in clean and disordered half-metallic ferromagnets. <i>Nature Physics</i> , 2008 , 4, 138-140 | 16.2 | 292 |
| 23 | 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 |
| 22 | 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 |
| 21 | Phase diagrams of ferromagnet-superconductor multilayers with misaligned exchange fields. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 24 |
| 20 | Symmetries of Pairing Correlations in Superconductor/Ferromagnet Nanostructures. <i>Journal of Low Temperature Physics</i> , 2007 , 147, 457-476 | 1.3 | 149 |
| 19 | Impurity scattering and Mott's formula in graphene. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 70 |
| 18 | Observation of periodic π -phase shifts in ferromagnet-superconductor multilayers. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 83 |
| 17 | Low-temperature thermal conductivity of superconductors with gap nodes. <i>Physical Review Letters</i> , 2005 , 95, 107006 | 7.4 | 7 |
| 16 | Interplay of magnetic and superconducting proximity effects in ferromagnet-superconductor-ferromagnet trilayers. <i>Physical Review Letters</i> , 2005 , 95, 187003 | 7.4 | 88 |
| 15 | Heat transport through Josephson point contacts. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 40 |
| 14 | Large thermoelectric effects in unconventional superconductors. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 13 |
| 13 | Proximity effect in normal metal/high-T _c superconductor contacts. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 11 |

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| 12 | Nonequilibrium superconductivity near spin-active interfaces. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 69 |
| 11 | Shot noise in normal metal-d-wave superconducting junctions. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 6 |
| 10 | Phase modulated thermal conductance of Josephson weak links. <i>Physical Review Letters</i> , 2003 , 91, 077003, | 3.4 | 46 |
| 9 | 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 |
| 8 | 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 |
| 7 | Andreev bound states in high-T _c superconducting junctions. <i>Superconductor Science and Technology</i> , 2001 , 14, R53-R77 | 3.1 | 222 |
| 6 | 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 |
| 5 | ac Josephson effect in superconducting d-wave junctions. <i>Physical Review B</i> , 1999 , 59, 4412-4426 | 3.3 | 22 |
| 4 | 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 |
| 3 | 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 |
| 2 | Superconducting d-wave junctions: The disappearance of the odd ac components. <i>Physical Review B</i> , 1998 , 57, R3225-R3228 | 3.3 | 18 |
| 1 | Triplet supercurrents in clean and disordered half-metallic ferromagnets | | 1 |