

Fabian Hassler

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.

66

papers

1,708

citations

19

h-index

40

g-index

73

ext. papers

2,073

ext. citations

4

avg, IF

4.99

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 66 | Quantized conductance at the Majorana phase transition in a disordered superconducting wire. <i>Physical Review Letters</i> , 2011 , 106, 057001 | 7.4 | 203 |
| 65 | Coulomb-assisted braiding of Majorana fermions in a Josephson junction array. <i>New Journal of Physics</i> , 2012 , 14, 035019 | 2.9 | 196 |
| 64 | Anyonic interferometry without anyons: how a flux qubit can read out a topological qubit. <i>New Journal of Physics</i> , 2010 , 12, 125002 | 2.9 | 132 |
| 63 | Scattering formula for the topological quantum number of a disordered multimode wire. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 119 |
| 62 | Scattering theory of topological insulators and superconductors. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 101 |
| 61 | The top-transmon: a hybrid superconducting qubit for parity-protected quantum computation. <i>New Journal of Physics</i> , 2011 , 13, 095004 | 2.9 | 100 |
| 60 | Dynamical detection of Majorana fermions in current-biased nanowires. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 98 |
| 59 | Coulomb stability of the 4E-periodic Josephson effect of Majorana fermions. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 91 |
| 58 | Strongly interacting Majorana modes in an array of Josephson junctions. <i>New Journal of Physics</i> , 2012 , 14, 125018 | 2.9 | 76 |
| 57 | From Majorana fermions to topological order. <i>Physical Review Letters</i> , 2012 , 108, 260504 | 7.4 | 60 |
| 56 | Wave-packet formalism of full counting statistics. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 58 |
| 55 | Using qubits to measure fidelity in mesoscopic systems. <i>Physical Review Letters</i> , 2006 , 96, 106801 | 7.4 | 27 |
| 54 | Topological quantum number and critical exponent from conductance fluctuations at the quantum Hall plateau transition. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 26 |
| 53 | Statistics of radiation at Josephson parametric resonance. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 24 |
| 52 | Broadband Lamb shift in an engineered quantum system. <i>Nature Physics</i> , 2019 , 15, 533-537 | 16.2 | 20 |
| 51 | Observation of the Spin-Orbit Gap in Bilayer Graphene by One-Dimensional Ballistic Transport. <i>Physical Review Letters</i> , 2020 , 124, 177701 | 7.4 | 20 |
| 50 | Weak Measurement Protocols for Majorana Bound State Identification. <i>Physical Review Letters</i> , 2020 , 124, 096801 | 7.4 | 20 |

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| 49 | Flat-lens focusing of electrons on the surface of a topological insulator. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 19 |
| 48 | Proposal for an optical laser producing light at half the Josephson frequency. <i>Physical Review Letters</i> , 2011 , 107, 073901 | 7.4 | 19 |
| 47 | Microwave readout of Majorana qubits. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 14 |
| 46 | Measurement and dephasing of a flux qubit due to heat currents. <i>New Journal of Physics</i> , 2014 , 16, 045020 | 2.9 | 14 |
| 45 | Effects of nonequilibrium noise on a quantum memory encoded in Majorana zero modes. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 14 |
| 44 | Quantum manipulation in a Josephson light-emitting diode. <i>Nanotechnology</i> , 2010 , 21, 274004 | 3.4 | 14 |
| 43 | Quantum transport through MoS constrictions defined by photodoping. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 205001 | 1.8 | 13 |
| 42 | Exchange interaction of two spin qubits mediated by a superconductor. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 12 |
| 41 | Majorana fermions coupled to electromagnetic radiation. <i>New Journal of Physics</i> , 2014 , 16, 015009 | 2.9 | 11 |
| 40 | Effects of exchange symmetry on full counting statistics. <i>Physical Review Letters</i> , 2007 , 99, 076804 | 7.4 | 11 |
| 39 | Chiral one-dimensional Floquet topological insulators beyond the rotating wave approximation. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 10 |
| 38 | Thermal conductance as a probe of the nonlocal order parameter for a topological superconductor with gauge fluctuations. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 10 |
| 37 | Majorana-assisted nonlocal electron transport through a floating topological superconductor. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 10 |
| 36 | Suppression of 2π phase slip due to hidden zero modes in one-dimensional topological superconductors. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 10 |
| 35 | Dual approach to circuit quantization using loop charges. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 10 |
| 34 | Quantum Phase Transitions of the Majorana Toric Code in the Presence of Finite Cooper-Pair Tunneling. <i>Physical Review Letters</i> , 2017 , 119, 180508 | 7.4 | 9 |
| 33 | Dynamical unbinding transition in a periodically driven Mott insulator. <i>Physical Review Letters</i> , 2010 , 104, 220402 | 7.4 | 9 |
| 32 | Noise-induced spectral shift measured in a double quantum dot. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 9 |

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| 31 | Second-order coherence of microwave photons emitted by a quantum point contact. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |
| 30 | Nonzero temperature effects on antibunched photons emitted by a quantum point contact out of equilibrium. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 8 |
| 29 | Coherent pumping of a Mott insulator: Fermi golden rule versus Rabi oscillations. <i>Physical Review A</i> , 2009 , 79, | 2.6 | 8 |
| 28 | Probing Majorana edge states with a flux qubit. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 8 |
| 27 | Dephasing due to quasiparticle tunneling in fluxonium qubits: a phenomenological approach. <i>New Journal of Physics</i> , 2015 , 17, 065012 | 2.9 | 7 |
| 26 | Aharonov-Bohm oscillations and magnetic focusing in ballistic graphene rings. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 7 |
| 25 | Optimal gauge for the multimode Rabi model in circuit QED. <i>Physical Review Research</i> , 2019 , 1, | 3.9 | 7 |
| 24 | Mesoscopic effects in the heat conductance of superconducting-normal-superconducting and normal-superconducting junctions. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 6 |
| 23 | Dual Shapiro steps of a phase-slip junction in the presence of a parasitic capacitance. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 6 |
| 22 | Supersymmetry in the Majorana Cooper-pair box. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 5 |
| 21 | Universal power-law decay of electron-electron interactions due to nonlinear screening in a Josephson junction array. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 4 |
| 20 | Changing anyonic ground degeneracy with engineered gauge fields. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 4 |
| 19 | Measurement Back-Action in Quantum Point-Contact Charge Sensing. <i>Entropy</i> , 2010 , 12, 1721-1732 | 2.8 | 4 |
| 18 | Measurement-induced entanglement of two transmon qubits by a single photon. <i>New Journal of Physics</i> , 2017 , 19, 053018 | 2.9 | 3 |
| 17 | Equation of motion approach to black-box quantization: Taming the multimode Jaynes-Cummings model. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 3 |
| 16 | Charge response of the Majorana toric code. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 3 |
| 15 | Statistics of radiation due to nondegenerate Josephson parametric down-conversion. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |
| 14 | Time-resolved electrical detection of chiral edge vortex braiding. <i>SciPost Physics</i> , 2020 , 8, | 6.1 | 3 |

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| 13 | Network model for higher-order topological phases. <i>Physical Review B</i> , 2021 , 103, | 3-3 | 3 |
| 12 | Dynamical structure factor in the non-Abelian phase of the Kitaev honeycomb model in the presence of quenched disorder. <i>Physical Review B</i> , 2019 , 99, | 3-3 | 3 |
| 11 | Topological ordering in the Majorana toric code. <i>Physical Review B</i> , 2019 , 100, | 3-3 | 2 |
| 10 | Exact rotating wave approximation. <i>Annals of Physics</i> , 2020 , 423, 168327 | 2-5 | 2 |
| 9 | Simulation of supersymmetric quantum mechanics in a Cooper-pair box shunted by a Josephson rhombus. <i>Physical Review B</i> , 2015 , 92, | 3-3 | 2 |
| 8 | Phase-coherent heat circulators with normal or superconducting contacts. <i>Physical Review B</i> , 2021 , 103, | 3-3 | 2 |
| 7 | Universality of photon counting below a local bifurcation threshold. <i>Physical Review A</i> , 2021 , 103, | 2-6 | 2 |
| 6 | Korshunov instantons in a superconductor at elevated bias current. <i>Physical Review B</i> , 2017 , 96, | 3-3 | 1 |
| 5 | Influence of a random telegraph process on the transport through a point contact. <i>European Physical Journal B</i> , 2011 , 83, 349-356 | 1-2 | 1 |
| 4 | Half-integer charge injection by a Josephson junction without excess noise. <i>Physical Review B</i> , 2020 , 102, | 3-3 | 1 |
| 3 | Calculation of tunnel couplings in open gate-defined disordered quantum dot systems. <i>Physical Review B</i> , 2018 , 98, | 3-3 | 1 |
| 2 | Breakdown of the Law of Reflection at a Disordered Graphene Edge. <i>Physical Review Letters</i> , 2018 , 121, 136803 | 7-4 | 1 |
| 1 | Period Tripling due to Parametric Down-Conversion in Circuit QED.. <i>Physical Review Letters</i> , 2022 , 128, 187701 | 7-4 | 0 |