

Bernard van Heck

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.

28
papers

1,141
citations

15
h-index

31
g-index

31
ext. papers

1,463
ext. citations

6.2
avg, IF

4.51
L-index

#	Paper	IF	Citations
28	Flux-controlled quantum computation with Majorana fermions. <i>Physical Review B</i> , 2013 , 88,	3.3	199
27	Coulomb-assisted braiding of Majorana fermions in a Josephson junction array. <i>New Journal of Physics</i> , 2012 , 14, 035019	2.9	196
26	Realization of Microwave Quantum Circuits Using Hybrid Superconducting-Semiconducting Nanowire Josephson Elements. <i>Physical Review Letters</i> , 2015 , 115, 127002	7.4	120
25	Coulomb stability of the 4 π -periodic Josephson effect of Majorana fermions. <i>Physical Review B</i> , 2011 , 84,	3.3	91
24	Conductance of a proximitized nanowire in the Coulomb blockade regime. <i>Physical Review B</i> , 2016 , 93,	3.3	69
23	Microwave spectroscopy of spinful Andreev bound states in ballistic semiconductor Josephson junctions. <i>Nature Physics</i> , 2017 , 13, 876-881	16.2	63
22	Flux-induced topological superconductivity in full-shell nanowires. <i>Science</i> , 2020 , 367,	33.3	61
21	Statistical topological insulators. <i>Physical Review B</i> , 2014 , 89,	3.3	57
20	Single fermion manipulation via superconducting phase differences in multiterminal Josephson junctions. <i>Physical Review B</i> , 2014 , 90,	3.3	48
19	Topological phases in two-dimensional arrays of parafermionic zero modes. <i>Physical Review B</i> , 2013 , 87,	3.3	32
18	Unified numerical approach to topological semiconductor-superconductor heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	30
17	Parity transitions in the superconducting ground state of hybrid InSb-Al Coulomb islands. <i>Nature Communications</i> , 2018 , 9, 4801	17.4	28
16	Zeeman and spin-orbit effects in the Andreev spectra of nanowire junctions. <i>Physical Review B</i> , 2017 , 96,	3.3	18
15	Observation of Vanishing Charge Dispersion of a Nearly Open Superconducting Island. <i>Physical Review Letters</i> , 2020 , 124, 246802	7.4	16
14	Braiding of non-Abelian anyons using pairwise interactions. <i>Physical Review A</i> , 2013 , 87,	2.6	15
13	Suppressed Charge Dispersion via Resonant Tunneling in a Single-Channel Transmon. <i>Physical Review Letters</i> , 2020 , 124, 246803	7.4	14
12	Effects of disorder on Coulomb-assisted braiding of Majorana zero modes. <i>Physical Review B</i> , 2013 , 88,	3.3	13

11	Spectral response of Josephson junctions with low-energy quasiparticles. <i>SciPost Physics</i> , 2019 , 7,	6.1	11
10	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
9	Topologically protected charge transfer along the edge of a chiral p-wave superconductor. <i>Physical Review B</i> , 2015 , 92,	3.3	8
8	Topological blockade and measurement of topological charge. <i>Physical Review Letters</i> , 2013 , 110, 086803.	7.4	8
7	Destructive Little-Parks Effect in a Full-Shell Nanowire-Based Transmon. <i>Physical Review Letters</i> , 2020 , 125, 156804	7.4	8
6	Controlled dc Monitoring of a Superconducting Qubit. <i>Physical Review Letters</i> , 2020 , 124, 056801	7.4	6
5	Quantum Criticality in Resonant Andreev Conduction. <i>Physical Review Letters</i> , 2017 , 119, 116802	7.4	6
4	Full parity phase diagram of a proximitized nanowire island. <i>Physical Review B</i> , 2021 , 104,	3.3	5
3	Minimal circuit for a flux-controlled Majorana qubit in a quantum spin-Hall insulator. <i>Physica Scripta</i> , 2015 , T164, 014007	2.6	4
2	Energy spectrum and current-phase relation of a nanowire Josephson junction close to the topological transition. <i>Physical Review B</i> , 2020 , 101,	3.3	3
1	Andreev Modes from Phase Winding in a Full-Shell Nanowire-Based Transmon. <i>Physical Review Letters</i> , 2021 , 126, 047701	7.4	2