

# Falko Pientka

## 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.

24  
papers

1,405  
citations

16  
h-index

25  
g-index

25  
ext. papers

1,825  
ext. citations

6.8  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
24	Topological superconducting phase in helical Shiba chains. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	282
23	End States and Subgap Structure in Proximity-Coupled Chains of Magnetic Adatoms. <i>Physical Review Letters</i> , <b>2015</b> , 115, 197204	7.4	223
22	Strong localization of Majorana end States in chains of magnetic adatoms. <i>Physical Review Letters</i> , <b>2015</b> , 114, 106801	7.4	106
21	Topological superconductivity in a phase-controlled Josephson junction. <i>Nature</i> , <b>2019</b> , 569, 93-98	50.4	102
20	Enhanced zero-bias Majorana peak in the differential tunneling conductance of disordered multiband quantum-wire/superconductor junctions. <i>Physical Review Letters</i> , <b>2012</b> , 109, 227006	7.4	93
19	First-principle calculations of the Berry curvature of Bloch states for charge and spin transport of electrons. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 213202	1.8	93
18	Unconventional topological phase transitions in helical Shiba chains. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	92
17	Tunneling Processes into Localized Subgap States in Superconductors. <i>Physical Review Letters</i> , <b>2015</b> , 115, 087001	7.4	76
16	Topological Superconductivity in a Planar Josephson Junction. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	75
15	Signatures of topological Josephson junctions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	43
14	Shortcuts to non-Abelian braiding. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	37
13	Robust Majorana Conductance Peaks for a Superconducting Lead. <i>Physical Review Letters</i> , <b>2015</b> , 115, 266804	7.4	35
12	Signatures of topological phase transitions in mesoscopic superconducting rings. <i>New Journal of Physics</i> , <b>2013</b> , 15, 025001	2.9	35
11	Tuning topological superconductivity in phase-controlled Josephson junctions with Rashba and Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	18
10	Magneto-Josephson effects and Majorana bound states in quantum wires. <i>New Journal of Physics</i> , <b>2013</b> , 15, 115001	2.9	17
9	Calculating the Berry curvature of Bloch electrons using the KKR method. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	17
8	Saturation effects in the upconversion efficiency of Er-doped fluorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 155107	1.8	14

7	Topological superconducting phase and Majorana bound states in Shiba chains. <i>Physica Scripta</i> , <b>2015</b> , T164, 014008	2.6	12
6	Transport of Neutral Optical Excitations Using Electric Fields. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	12
5	Thermal Transport Signatures of Broken-Symmetry Phases in Graphene. <i>Physical Review Letters</i> , <b>2017</b> , 119, 027601	7.4	8
4	Gauge freedom for degenerate Bloch states. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	7
3	Quantum paracrystalline shear modes of the electron liquid. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
2	The universal shear conductivity of Fermi liquids and spinon Fermi surface states and its detection via spin qubit noise magnetometry. <i>New Journal of Physics</i> ,	2.9	3
1	Unconventional supercurrent phase in Ising superconductor Josephson junction with atomically thin magnetic insulator. <i>Nature Communications</i> , <b>2021</b> , 12, 5332	17.4	1