

Falko Pientka

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.

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	Unconventional supercurrent phase in Ising superconductor Josephson junction with atomically thin magnetic insulator. <i>Nature Communications</i> , 2021 , 12, 5332	17.4	1
23	Quantum paracrystalline shear modes of the electron liquid. <i>Physical Review B</i> , 2020 , 102,	3.3	4
22	Tuning topological superconductivity in phase-controlled Josephson junctions with Rashba and Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , 2019 , 99,	3.3	18
21	Topological superconductivity in a phase-controlled Josephson junction. <i>Nature</i> , 2019 , 569, 93-98	50.4	102
20	Transport of Neutral Optical Excitations Using Electric Fields. <i>Physical Review X</i> , 2019 , 9,	9.1	12
19	Topological Superconductivity in a Planar Josephson Junction. <i>Physical Review X</i> , 2017 , 7,	9.1	75
18	Thermal Transport Signatures of Broken-Symmetry Phases in Graphene. <i>Physical Review Letters</i> , 2017 , 119, 027601	7.4	8
17	Signatures of topological Josephson junctions. <i>Physical Review B</i> , 2016 , 94,	3.3	43
16	Strong localization of Majorana end States in chains of magnetic adatoms. <i>Physical Review Letters</i> , 2015 , 114, 106801	7.4	106
15	Topological superconducting phase and Majorana bound states in Shiba chains. <i>Physica Scripta</i> , 2015 , T164, 014008	2.6	12
14	Shortcuts to non-Abelian braiding. <i>Physical Review B</i> , 2015 , 91,	3.3	37
13	Tunneling Processes into Localized Subgap States in Superconductors. <i>Physical Review Letters</i> , 2015 , 115, 087001	7.4	76
12	End States and Subgap Structure in Proximity-Coupled Chains of Magnetic Adatoms. <i>Physical Review Letters</i> , 2015 , 115, 197204	7.4	223
11	Robust Majorana Conductance Peaks for a Superconducting Lead. <i>Physical Review Letters</i> , 2015 , 115, 266804	7.4	35
10	Unconventional topological phase transitions in helical Shiba chains. <i>Physical Review B</i> , 2014 , 89,	3.3	92
9	Magneto-Josephson effects and Majorana bound states in quantum wires. <i>New Journal of Physics</i> , 2013 , 15, 115001	2.9	17
8	Topological superconducting phase in helical Shiba chains. <i>Physical Review B</i> , 2013 , 88,	3.3	282

7	Signatures of topological phase transitions in mesoscopic superconducting rings. <i>New Journal of Physics</i> , 2013 , 15, 025001	2.9	35
6	Enhanced zero-bias Majorana peak in the differential tunneling conductance of disordered multiband quantum-wire/superconductor junctions. <i>Physical Review Letters</i> , 2012 , 109, 227006	7.4	93
5	First-principle calculations of the Berry curvature of Bloch states for charge and spin transport of electrons. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 213202	1.8	93
4	Gauge freedom for degenerate Bloch states. <i>Physical Review B</i> , 2012 , 86,	3.3	7
3	Calculating the Berry curvature of Bloch electrons using the KKR method. <i>Physical Review B</i> , 2011 , 84,	3.3	17
2	Saturation effects in the upconversion efficiency of Er-doped fluorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 155107	1.8	14
1	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