

Felix von Oppen

List of Publications by Year in descending order

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31
papers

5,716
citations

304743

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434195

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docs citations

31
times ranked

3119
citing authors

#	ARTICLE	IF	CITATIONS
1	Helical Liquids and Majorana Bound States in Quantum Wires. <i>Physical Review Letters</i> , 2010, 105, 177002.	7.8	2,544
2	Non-Abelian statistics and topological quantum information processing in 1D wire networks. <i>Nature Physics</i> , 2011, 7, 412-417.	16.7	1,285
3	Topological superconducting phase in helical Shiba chains. <i>Physical Review B</i> , 2013, 88, .	3.2	381
4	End States and Subgap Structure in Proximity-Coupled Chains of Magnetic Adatoms. <i>Physical Review Letters</i> , 2015, 115, 197204.	7.8	294
5	Strong Localization of Majorana End States in Chains of Magnetic Adatoms. <i>Physical Review Letters</i> , 2015, 114, 106801.	7.8	128
6	Exploring a Proximity-Coupled Co Chain on Pb(110) as a Possible Majorana Platform. <i>Nano Letters</i> , 2017, 17, 4473-4477.	9.1	118
7	Tunneling Processes into Localized Subgap States in Superconductors. <i>Physical Review Letters</i> , 2015, 115, 087001.	7.8	113
8	Engineered platforms for topological superconductivity and Majorana zero modes. <i>Nature Reviews Materials</i> , 2021, 6, 944-958.	48.7	101
9	Orbital Picture of Yu-Shiba-Rusinov Multiplets. <i>Physical Review Letters</i> , 2016, 117, 186801.	7.8	90
10	Tuning the Coupling of an Individual Magnetic Impurity to a Superconductor: Quantum Phase Transition and Transport. <i>Physical Review Letters</i> , 2018, 121, 196803.	7.8	84
11	Exact distribution of eigenvalue curvatures of chaotic quantum systems. <i>Physical Review Letters</i> , 1994, 73, 798-801.	7.8	80
12	Exact distributions of eigenvalue curvatures for time-reversal-invariant chaotic systems. <i>Physical Review E</i> , 1995, 51, 2647-2650.	2.1	53
13	Wave-Function Hybridization in Yu-Shiba-Rusinov Dimers. <i>Physical Review Letters</i> , 2018, 120, 156803.	7.8	53
14	Quantum computing with Majorana fermion codes. <i>Physical Review B</i> , 2018, 97, .	3.2	47
15	Robust Majorana Conductance Peaks for a Superconducting Lead. <i>Physical Review Letters</i> , 2015, 115, 266804.	7.8	43
16	Majorana Zero Modes in Networks of Cooper-Pair Boxes: Topologically Ordered States and Topological Quantum Computation. <i>Annual Review of Condensed Matter Physics</i> , 2020, 11, 397-420.	14.5	41
17	Yu-Shiba-Rusinov States in the Charge-Density Modulated Superconductor NbSe ₂ . <i>Nano Letters</i> , 2020, 20, 339-344.	9.1	36
18	Readout of Majorana qubits. <i>Physical Review Research</i> , 2020, 2, .	3.6	31

#	ARTICLE	IF	CITATIONS
19	Interfering Tunneling Paths through Magnetic Molecules on Superconductors: Asymmetries of Kondo and Yu-Shiba-Rusinov Resonances. <i>Physical Review Letters</i> , 2020, 125, 256805.	7.8	24
20	Dephasing and leakage dynamics of noisy Majorana-based qubits: Topological versus Andreev. <i>Physical Review B</i> , 2020, 101, .	3.2	24
21	Drude weight fluctuations in many-body localized systems. <i>Physical Review B</i> , 2016, 94, .	3.2	23
22	Yu-Shiba-Rusinov states in real metals. <i>Physical Review B</i> , 2021, 103, .	3.2	23
23	Quantum spins and hybridization in artificially-constructed chains of magnetic adatoms on a superconductor. <i>Nature Communications</i> , 2022, 13, 2160.	12.8	20
24	Proximity-induced gap in nanowires with a thin superconducting shell. <i>Physical Review B</i> , 2019, 100, .	3.2	19
25	Photon-assisted resonant Andreev reflections: Yu-Shiba-Rusinov and Majorana states. <i>Physical Review B</i> , 2020, 102, .	3.2	14
26	Quantum Magnetism and Topological Superconductivity in Yu-Shiba-Rusinov Chains. <i>Physical Review Letters</i> , 2022, 128, 036801.	7.8	13
27	Topological superconductivity in tripartite superconductor-ferromagnet-semiconductor nanowires. <i>Physical Review B</i> , 2021, 103, .	3.2	12
28	Quantum Yu-Shiba-Rusinov dimers. <i>Physical Review B</i> , 2022, 105, .	3.2	7
29	Universal Scaling Theory of the Boundary Geometric Tensor in Disordered Metals. <i>Physical Review Letters</i> , 2019, 122, 106601.	7.8	5
30	Hilbert Space Geometry of Random Matrix Eigenstates. <i>Physical Review Letters</i> , 2021, 126, 200604.	7.8	5
31	Direct observation of intrinsic surface magnetic disorder in amorphous superconducting films. <i>Physical Review B</i> , 2022, 105, .	3.2	5