

Yuval Oreg

List of Publications by Year in descending order

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71
papers

8,864
citations

147801

31
h-index

98798

67
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73
all docs

73
docs citations

73
times ranked

4382
citing authors

#	ARTICLE	IF	CITATIONS
1	Majorana zero modes induced by superconducting phase bias. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 164001.	2.8	7
2	Distinguishing between non-abelian topological orders in a quantum Hall system. <i>Science</i> , 2022, 375, 193-197.	12.6	34
3	Domain Formation Driven by the Entropy of Topological Edge Modes. <i>Physical Review Letters</i> , 2022, 128, 156801.	7.8	2
4	Extracting the scaling dimension of quantum Hall quasiparticles from current correlations. <i>Physical Review B</i> , 2022, 105, .	3.2	13
5	Renormalization-group-inspired neural networks for computing topological invariants. <i>Physical Review B</i> , 2022, 105, .	3.2	1
6	Three-phase Majorana zero modes at tiny magnetic fields. <i>Physical Review B</i> , 2021, 103, .	3.2	15
7	Entropic evidence for a Pomeranchuk effect in magic-angle graphene. <i>Nature</i> , 2021, 592, 214-219.	27.8	118
8	Phase-induced topological superconductivity in a planar heterostructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
9	Tunable proximity effects and topological superconductivity in ferromagnetic hybrid nanowires. <i>Physical Review B</i> , 2021, 104, .	3.2	13
10	Theory of multi-orbital topological superconductivity in transition metal dichalcogenides. <i>Annals of Physics</i> , 2021, 435, 168561.	2.8	6
11	Evidence of topological boundary modes with topological nodal-point superconductivity. <i>Nature Physics</i> , 2021, 17, 1413-1419.	16.7	40
12	Theory of Correlated Insulators and Superconductivity in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 247703.	7.8	24
13	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
14	Coupled wire construction of a topological phase with chiral tricritical Ising edge modes. <i>Physical Review B</i> , 2020, 102, .	3.2	7
15	Chiral topologically ordered insulating phases in arrays of interacting integer quantum Hall islands. <i>Physical Review B</i> , 2020, 102, .	3.2	2
16	Temperature Enhancement of Thermal Hall Conductance Quantization. <i>Physical Review Letters</i> , 2020, 125, 236802.	7.8	16
17	Energy Relaxation in Edge Modes in the Quantum Hall Effect. <i>Physical Review Letters</i> , 2020, 125, 256803.	7.8	13
18	Thermal conductance of one-dimensional disordered harmonic chains. <i>Physical Review B</i> , 2020, 101, .	3.2	8

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19	Topological superconductivity in carbon nanotubes with a small magnetic flux. Physical Review Research, 2020, 2, .	3.6	12
20	Fractional Conductance in Strongly Interacting 1D Systems. Physical Review Letters, 2019, 123, 036803.	7.8	19
21	Topologically protected braiding in a single wire using Floquet Majorana modes. Physical Review B, 2019, 100, .	3.2	33
22	Effects of the electrostatic environment on superlattice Majorana nanowires. Physical Review B, 2019, 100, .	3.2	16
23	Supersymmetry in the Insulating Phase of a Chain of Majorana Cooper Pair Boxes. Physical Review Letters, 2019, 123, 026401.	7.8	10
24	Detecting the Universal Fractional Entropy of Majorana Zero Modes. Physical Review Letters, 2019, 123, 147702.	7.8	41
25	Spin liquids from Majorana zero modes in a Cooper-pair box. Physical Review B, 2019, 99, .	3.2	19
26	Concomitant opening of a bulk-gap with an emerging possible Majorana zero mode. Nature Communications, 2019, 10, 1940.	12.8	55
27	Robust Majorana magic gates via measurements. Physical Review B, 2019, 99, .	3.2	14
28	Phenomenological theory of heat transport in the fractional quantum Hall effect. Physical Review B, 2019, 99, .	3.2	23
29	Theory of Disorder-Induced Half-Integer Thermal Hall Conductance. Physical Review Letters, 2018, 121, 026801.	7.8	71
30	Observation of half-integer thermal Hall conductance. Nature, 2018, 559, 205-210.	27.8	249
31	Observed quantization of anyonic heat flow. Nature, 2017, 545, 75-79.	27.8	146
32	Generalized parafermions and nonlocal Josephson effect in multilayer systems. Physical Review B, 2017, 95, .	3.2	7
33	Reduction of Electron Repulsion and Enhancement of T_c in Small Diffusive Superconducting Grains. Physical Review Letters, 2017, 118, 157001.	7.8	0
34	Scalable designs for quasiparticle-poisoning-protected topological quantum computation with Majorana zero modes. Physical Review B, 2017, 95, .	3.2	444
35	Fractional chiral superconductors. Physical Review B, 2017, 96, .	3.2	16
36	Interaction-driven topological superconductivity in one dimension. Physical Review B, 2016, 94, .	3.2	26

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37	No-go theorem for a time-reversal invariant topological phase in noninteracting systems coupled to conventional superconductors. <i>Physical Review B</i> , 2016, 94, .	3.2	25
38	Signatures of topological Josephson junctions. <i>Physical Review B</i> , 2016, 94, .	3.2	62
39	Universal Geometric Path to a Robust Majorana Magic Gate. <i>Physical Review X</i> , 2016, 6, .	8.9	59
40	Current correlations in a Majorana beam splitter. <i>Physical Review B</i> , 2015, 92, .	3.2	31
41	Detecting Majorana modes in one-dimensional wires by charge sensing. <i>Physical Review B</i> , 2015, 91, .	3.2	62
42	Signatures of Majorana Zero Modes in Spin-Resolved Current Correlations. <i>Physical Review Letters</i> , 2015, 114, 166406.	7.8	84
43	Fractional helical liquids in quantum wires. <i>Physical Review B</i> , 2014, 89, .	3.2	105
44	Universal Topological Quantum Computation from a Superconductor-Abelian Quantum Hall Heterostructure. <i>Physical Review X</i> , 2014, 4, .	8.9	240
45	How to Directly Measure a Kondo Cloud's Length. <i>Physical Review Letters</i> , 2013, 110, 246603.	7.8	33
46	Emergent Percolation Length and Localization in Random Elastic Networks. <i>Physical Review X</i> , 2013, 3, .	8.9	20
47	Magneto-Josephson effects in junctions with Majorana bound states. <i>Physical Review B</i> , 2013, 87, .	3.2	43
48	Signatures of topological phase transitions in mesoscopic superconducting rings. <i>New Journal of Physics</i> , 2013, 15, 025001.	2.9	46
49	Reply to "Comment on "Phase diagram of reentrant and magnetic-field-induced superconducting states with Kondo impurities in bulk and proximity-coupled compounds" Physical Review B, 2013, 87, .	3.2	0
50	Adaptive tuning of Majorana fermions in a quantum dot chain. <i>New Journal of Physics</i> , 2013, 15, 045020.	2.9	75
51	Transmission phase shifts of Kondo impurities. <i>Physical Review B</i> , 2012, 86, .	3.2	10
52	Phase diagram of reentrant and magnetic-field-induced superconducting states with Kondo impurities in bulk and proximity-coupled compounds. <i>Physical Review B</i> , 2012, 86, .	3.2	7
53	Enhanced shot noise in asymmetric interacting two-level systems. <i>Physical Review B</i> , 2012, 85, .	3.2	18
54	Zero-bias peaks and splitting in an InAs nanowire topological superconductor as a signature of Majorana fermions. <i>Nature Physics</i> , 2012, 8, 887-895.	16.7	1,796

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55	Single and multiparticle scattering in helical liquid with an impurity. Physical Review B, 2012, 85, .	3.2	77
56	Electron Glass Dynamics. Annual Review of Condensed Matter Physics, 2011, 2, 235-262.	14.5	59
57	Non-Abelian statistics and topological quantum information processing in 1D wire networks. Nature Physics, 2011, 7, 412-417.	16.7	1,285
58	Helical Liquids and Majorana Bound States in Quantum Wires. Physical Review Letters, 2010, 105, 177002.	7.8	2,544
59	Fluctuation persistent current in small superconducting rings. Physical Review B, 2010, 82, .	3.2	20
60	Fluctuations Effects in Small Superconducting Rings. , 2010, , 265-303.		0
61	Superconductor-insulator transition in thin films driven by an orbital parallel magnetic field effect. Physical Review B, 2009, 79, .	3.2	0
62	Mean-field model for electron-glass dynamics. Physical Review B, 2008, 77, .	3.2	56
63	Decays in quantum hierarchical models. Physical Review A, 2008, 77, .	2.5	14
64	Nonequilibrium charge-Kondo transport through negative-U molecules. Physical Review B, 2007, 75, .	3.2	40
65	Superconductor-to-normal transitions in dissipative chains of mesoscopic grains and nanowires. Physical Review B, 2007, 75, .	3.2	50
66	Charge oscillations in quantum dots: Renormalization group and Hartree method calculations. Physical Review B, 2005, 72, .	3.2	52
67	Thermopower of single-molecule devices. Physical Review B, 2004, 70, .	3.2	201
68	Dissipation and quantum phase transitions of a pair of Josephson junctions. Physical Review B, 2003, 68, .	3.2	28
69	Two-Channel Kondo Effect in a Modified Single Electron Transistor. Physical Review Letters, 2003, 90, 136602.	7.8	133
70	Coulomb Drag in Systems with Tunneling Bridges. Physical Review Letters, 1998, 80, 2421-2424.	7.8	12
71	A single impurity in Tomonaga-Luttinger liquids. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1145-1160.	0.6	3