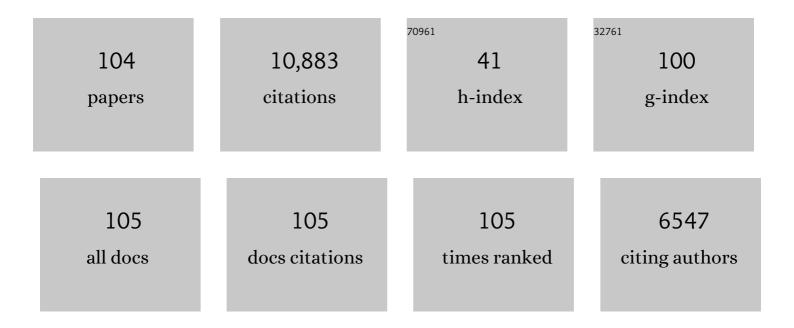
Gil Refael

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11153652/publications.pdf Version: 2024-02-01



CIL DEEAEL

#	Article	IF	CITATIONS
1	Helical Liquids and Majorana Bound States in Quantum Wires. Physical Review Letters, 2010, 105, 177002.	2.9	2,544
2	Floquet topological insulator in semiconductor quantum wells. Nature Physics, 2011, 7, 490-495.	6.5	1,385
3	Non-Abelian statistics and topological quantum information processing in 1D wire networks. Nature Physics, 2011, 7, 412-417.	6.5	1,285
4	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. Physical Review Letters, 2011, 106, 220402.	2.9	606
5	Electronic correlations in twisted bilayer graphene near the magic angle. Nature Physics, 2019, 15, 1174-1180.	6.5	450
6	Many-body localization in a quasiperiodic system. Physical Review B, 2013, 87, .	1.1	313
7	Photocurrents in Weyl semimetals. Physical Review B, 2017, 95, .	1.1	229
8	Fractionalizing Majorana Fermions: Non-Abelian Statistics on the Edges of Abelian Quantum Hall States. Physical Review X, 2012, 2, .	2.8	223
9	Anomalous Floquet-Anderson Insulator as a Nonadiabatic Quantized Charge Pump. Physical Review X, 2016, 6, .	2.8	204
10	Topological Polaritons. Physical Review X, 2015, 5, .	2.8	201
11	Hilbert-Glass Transition: New Universality of Temperature-Tuned Many-Body Dynamical Quantum Criticality. Physical Review X, 2014, 4, .	2.8	197
12	Disorder-Induced Floquet Topological Insulators. Physical Review Letters, 2015, 114, 056801.	2.9	182
13	Adiabatic manipulations of Majorana fermions in a three-dimensional network of quantum wires. Physical Review B, 2012, 85, .	1.1	149
14	Unconventional Josephson Signatures of Majorana Bound States. Physical Review Letters, 2011, 107, 236401.	2.9	143
15	From Bloch oscillations to many-body localization in clean interacting systems. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9269-9274.	3.3	143
16	Topological Floquet spectrum in three dimensions via a two-photon resonance. Physical Review B, 2013, 87, .	1.1	131
17	Controlled Population of Floquet-Bloch States via Coupling to Bose and Fermi Baths. Physical Review X, 2015, 5, .	2.8	115
18	Topological Frequency Conversion in Strongly Driven Quantum Systems. Physical Review X, 2017, 7, .	2.8	103

#	Article	IF	CITATIONS
19	Floquet Second-Order Topological Insulators from Nonsymmorphic Space-Time Symmetries. Physical Review Letters, 2019, 123, 016806.	2.9	93
20	Phase Transition in a System of One-Dimensional Bosons with Strong Disorder. Physical Review Letters, 2004, 93, 150402.	2.9	89
21	Photocurrent response of topological insulator surface states. Physical Review B, 2013, 88, .	1.1	76
22	Quantum dynamics of thermalizing systems. Physical Review B, 2018, 97, .	1.1	72
23	Superfluid-insulator transition of disordered bosons in one dimension. Physical Review B, 2010, 81, .	1.1	70
24	Manipulating Majorana fermions using supercurrents. Physical Review B, 2012, 85, .	1.1	70
25	Fixed Points of Wegner-Wilson Flows and Many-Body Localization. Physical Review Letters, 2017, 119, 075701.	2.9	69
26	Linear magnetoresistance in metals: Guiding center diffusion in a smooth random potential. Physical Review B, 2015, 92, .	1.1	68
27	Measuring entanglement entropies in many-body systems. Physical Review A, 2006, 74, .	1.0	63
28	Remnant Geometric Hall Response in a Quantum Quench. Physical Review Letters, 2016, 117, 235302.	2.9	61
29	Universal Geometric Path to a Robust Majorana Magic Gate. Physical Review X, 2016, 6, .	2.8	59
30	Geometrical approach to hydrodynamics and low-energy excitations of spinor condensates. Physical Review B, 2009, 80, .	1.1	54
31	Superconductor-to-normal transitions in dissipative chains of mesoscopic grains and nanowires. Physical Review B, 2007, 75, .	1.1	50
32	Insulating Phases and Superfluid-Insulator Transition of Disordered Boson Chains. Physical Review Letters, 2008, 100, 170402.	2.9	50
33	Shortcuts to non-Abelian braiding. Physical Review B, 2015, 91, .	1.1	49
34	Boosting Majorana Zero Modes. Physical Review X, 2013, 3, .	2.8	48
35	Quantized Magnetization Density in Periodically Driven Systems. Physical Review Letters, 2017, 119, 186801.	2.9	48
36	Spin reduction transition in spin-32random Heisenberg chains. Physical Review B, 2002, 66, .	1.1	46

#	Article	IF	CITATIONS
37	Bulk-Boundary Correspondence for Non-Hermitian Hamiltonians via Green Functions. Physical Review Letters, 2021, 126, 216407.	2.9	46
38	RESISTANCE IN SUPERCONDUCTORS. International Journal of Modern Physics B, 2010, 24, 4039-4080.	1.0	44
39	Magneto-Josephson effects in junctions with Majorana bound states. Physical Review B, 2013, 87, .	1.1	43
40	Learning phase transitions from dynamics. Physical Review B, 2018, 98, .	1.1	43
41	Optimal control of Majorana zero modes. Physical Review B, 2015, 91, .	1.1	41
42	Quantized transport and steady states of Floquet topological insulators. Physical Review B, 2018, 97, .	1.1	41
43	Optically induced flat bands in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	38
44	Sharp Superconductor-Insulator Transition in Short Wires. Physical Review Letters, 2007, 98, 187001.	2.9	37
45	Absence of thermalization in finite isolated interacting Floquet systems. Physical Review B, 2018, 97, .	1.1	35
46	Do the surface Fermi arcs in Weyl semimetals survive disorder?. Physical Review B, 2018, 97, .	1.1	34
47	Time-quasiperiodic topological superconductors with Majorana multiplexing. Physical Review B, 2018, 98, .	1.1	33
48	Topologically protected braiding in a single wire using Floquet Majorana modes. Physical Review B, 2019, 100, .	1.1	33
49	Strong disorder renormalization group primer and the superfluid–insulator transition. Comptes Rendus Physique, 2013, 14, 725-739.	0.3	29
50	Dissipation and quantum phase transitions of a pair of Josephson junctions. Physical Review B, 2003, 68, .	1.1	28
51	Steady states of interacting Floquet insulators. Physical Review B, 2019, 99, .	1.1	27
52	Topological frequency conversion in a driven dissipative quantum cavity. Physical Review B, 2019, 99, .	1.1	24
53	Orbital Floquet engineering of exchange interactions in magnetic materials. Physical Review B, 2019, 100, .	1.1	24
54	Thermopower and Mott formula for a Majorana edge state. Physical Review B, 2013, 88, .	1.1	23

#	Article	IF	CITATIONS
55	Disorder-induced transitions in resonantly driven Floquet topological insulators. Physical Review B, 2017, 96, .	1.1	23
56	Light-induced evaporative cooling of holes in the Hubbard model. Nature Communications, 2019, 10, 5556.	5.8	23
57	Dynamical many-body localization in an integrable model. Physical Review B, 2016, 94, .	1.1	22
58	Topological energy conversion through the bulk or the boundary of driven systems. Physical Review B, 2018, 97, .	1.1	22
59	Fate of the Josephson effect in thin-film superconductors. Nature Physics, 2005, 1, 117-121.	6.5	20
60	Sagnac Interference in Carbon Nanotube Loops. Physical Review Letters, 2007, 98, 246803.	2.9	20
61	Localization transition in one dimension using Wegner flow equations. Physical Review B, 2016, 94, .	1.1	20
62	Magneto-Josephson effects and Majorana bound states in quantum wires. New Journal of Physics, 2013, 15, 115001.	1.2	19
63	Energy Partitioning of Tunneling Currents into Luttinger Liquids. Physical Review Letters, 2011, 107, 176403.	2.9	18
64	Anderson localization on the Bethe lattice using cages and the Wegner flow. Physical Review B, 2019, 100, .	1.1	18
65	Setting Boundaries with Memory: Generation of Topological Boundary States in Floquet-Induced Synthetic Crystals. Physical Review Letters, 2018, 120, 106402.	2.9	17
66	Dissipation-Driven Quantum Phase Transition in Superconductor-Graphene Systems. Physical Review Letters, 2008, 101, 106402.	2.9	16
67	Finding the Elusive Sliding Phase in the Superfluid-Normal Phase Transition Smeared byc-Axis Disorder. Physical Review Letters, 2010, 105, 085302.	2.9	16
68	Shift-current response as a probe of quantum geometry and electron-electron interactions in twisted bilayer graphene. Physical Review Research, 2022, 4, .	1.3	16
69	Transverse Meissner physics of planar superconductors with columnar pins. Physical Review B, 2006, 74, .	1.1	14
70	Interacting adiabatic quantum motor. Physical Review B, 2018, 97, .	1.1	14
71	Robust Majorana magic gates via measurements. Physical Review B, 2019, 99, .	1.1	14
72	Effect of inhomogeneous coupling on BCS superconductors. Physical Review B, 2008, 77, .	1.1	12

#	Article	IF	CITATIONS
73	Superconductor to normal-metal transition in finite-length nanowires: Phenomenological model. Physical Review B, 2009, 79, .	1.1	12
74	Topological polaritons in a quantum spin Hall cavity. Physical Review B, 2016, 93, .	1,1	12
75	Quantum frequency locking and downconversion in a driven qubit-cavity system. Physical Review Research, 2020, 2, .	1.3	11
76	Electrical Manipulation of Majorana Fermions in an Interdigitated Superconductor-Ferromagnet Device. Physical Review Letters, 2012, 109, 126403.	2.9	10
77	Disordered topological metals. Physical Review B, 2013, 87, .	1.1	9
78	Current amplification and relaxation in Dirac systems. Physical Review B, 2014, 90, .	1.1	9
79	Extracting many-body localization lengths with an imaginary vector potential. Physical Review B, 2021, 103, .	1.1	9
80	Floquet Majorana bound states in voltage-biased planar Josephson junctions. Physical Review Research, 2021, 3, .	1.3	9
81	Simulation results for an interacting pair of resistively shunted Josephson junctions. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P12003-P12003.	0.9	8
82	Universal nonadiabatic energy pumping in a quasiperiodically driven extended system. Physical Review B, 2021, 104, .	1.1	8
83	Clausius-Clapeyron relations for first-order phase transitions in bilayer quantum Hall systems. Physical Review B, 2010, 81, .	1.1	7
84	Transport through a disordered topological-metal strip. Physical Review B, 2013, 87, .	1,1	7
85	Anomalous exciton transport in response to a uniform in-plane electric field. Physical Review B, 2021, 103, .	1.1	7
86	Sharp superconductor–insulator transition in short wires. Physica C: Superconductivity and Its Applications, 2008, 468, 341-349.	0.6	6
87	Holographic treatment of boundary disorder in a topological insulator. Physical Review B, 2015, 92, .	1.1	6
88	Investigating the superconductor-insulator transition in thin films using drag resistance: Theoretical analysis of a proposed experiment. Physical Review B, 2009, 80, .	1,1	5
89	Decoupling of static and dynamic criticality in a driven Mott insulator. Communications Physics, 2022, 5, .	2.0	5
90	Sagnac interference in carbon nanotubes. Physical Review B, 2008, 78, .	1.1	4

#	Article	IF	CITATIONS
91	Photon pumping in a weakly-driven quantum cavity–spin system. Annals of Physics, 2021, 435, 168553.	1.0	4
92	From dynamical localization to bunching in interacting Floquet systems. SciPost Physics, 2018, 5, .	1.5	4
93	Theoretical analysis of drag resistance in amorphous thin films exhibiting superconductor-insulator transitions. Physical Review B, 2010, 82, .	1.1	3
94	Susceptibility at the superfluid-insulator transition for one-dimensional disordered bosons. Physical Review B, 2013, 88, .	1.1	3
95	Thermodynamic measure of the magnetoelectric coupling in a three-dimensional topological insulator. Physical Review B, 2013, 87, .	1.1	3
96	Experimental realization of a topological Anderson insulator. , 2015, , .		3
97	Ground-state degeneracy of correlated insulators with edges. Physical Review B, 2005, 72, .	1.1	2
98	RESISTANCE IN SUPERCONDUCTORS. , 2010, , 185-226.		2
99	Particle-hole symmetric localization in optical lattices using time modulated random on-site potentials. Physical Review B, 2010, 82, .	1.1	1
100	Semiclassical approach to bound states of a pointlike impurity in a two-dimensional Dirac system. Physical Review B, 2014, 89, .	1.1	1
101	Nonperturbative expression for the transmission through a leaky chiral edge mode. Physical Review B, 2014, 89, .	1.1	1
102	Universal point contact resistance between thin-film superconductors. Physical Review B, 2006, 73, .	1.1	0
103	Gapless Excitations in Strongly Fluctuating Superconducting Wires. Physical Review Letters, 2011, 107, 227004.	2.9	0
104	Quantum information sharing between topologically distinct platforms. Physical Review B, 2016, 94, .	1.1	0