

# Gil Refael

## List of Publications by Year in descending order

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104  
papers

10,883  
citations

70961

41  
h-index

32761

100  
g-index

105  
all docs

105  
docs citations

105  
times ranked

6547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoupling of static and dynamic criticality in a driven Mott insulator. <i>Communications Physics</i> , 2022, 5, .	2.0	5
2	Shift-current response as a probe of quantum geometry and electron-electron interactions in twisted bilayer graphene. <i>Physical Review Research</i> , 2022, 4, .	1.3	16
3	Extracting many-body localization lengths with an imaginary vector potential. <i>Physical Review B</i> , 2021, 103, .	1.1	9
4	Anomalous exciton transport in response to a uniform in-plane electric field. <i>Physical Review B</i> , 2021, 103, .	1.1	7
5	Floquet Majorana bound states in voltage-biased planar Josephson junctions. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
6	Bulk-Boundary Correspondence for Non-Hermitian Hamiltonians via Green Functions. <i>Physical Review Letters</i> , 2021, 126, 216407.	2.9	46
7	Photon pumping in a weakly-driven quantum cavity spin system. <i>Annals of Physics</i> , 2021, 435, 168553.	1.0	4
8	Universal nonadiabatic energy pumping in a quasiperiodically driven extended system. <i>Physical Review B</i> , 2021, 104, .	1.1	8
9	Optically induced flat bands in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	38
10	Quantum frequency locking and downconversion in a driven qubit-cavity system. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
11	Electronic correlations in twisted bilayer graphene near the magic angle. <i>Nature Physics</i> , 2019, 15, 1174-1180.	6.5	450
12	Topologically protected braiding in a single wire using Floquet Majorana modes. <i>Physical Review B</i> , 2019, 100, .	1.1	33
13	Floquet Second-Order Topological Insulators from Nonsymmorphic Space-Time Symmetries. <i>Physical Review Letters</i> , 2019, 123, 016806.	2.9	93
14	Anderson localization on the Bethe lattice using cages and the Wegner flow. <i>Physical Review B</i> , 2019, 100, .	1.1	18
15	Steady states of interacting Floquet insulators. <i>Physical Review B</i> , 2019, 99, .	1.1	27
16	From Bloch oscillations to many-body localization in clean interacting systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9269-9274.	3.3	143
17	Robust Majorana magic gates via measurements. <i>Physical Review B</i> , 2019, 99, .	1.1	14
18	Topological frequency conversion in a driven dissipative quantum cavity. <i>Physical Review B</i> , 2019, 99, .	1.1	24

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19	Light-induced evaporative cooling of holes in the Hubbard model. Nature Communications, 2019, 10, 5556.	5.8	23
20	Orbital Floquet engineering of exchange interactions in magnetic materials. Physical Review B, 2019, 100, .	1.1	24
21	Setting Boundaries with Memory: Generation of Topological Boundary States in Floquet-Induced Synthetic Crystals. Physical Review Letters, 2018, 120, 106402.	2.9	17
22	Topological energy conversion through the bulk or the boundary of driven systems. Physical Review B, 2018, 97, .	1.1	22
23	Quantum dynamics of thermalizing systems. Physical Review B, 2018, 97, .	1.1	72
24	Absence of thermalization in finite isolated interacting Floquet systems. Physical Review B, 2018, 97, .	1.1	35
25	Time-quasiperiodic topological superconductors with Majorana multiplexing. Physical Review B, 2018, 98, .	1.1	33
26	Interacting adiabatic quantum motor. Physical Review B, 2018, 97, .	1.1	14
27	Learning phase transitions from dynamics. Physical Review B, 2018, 98, .	1.1	43
28	Do the surface Fermi arcs in Weyl semimetals survive disorder?. Physical Review B, 2018, 97, .	1.1	34
29	Quantized transport and steady states of Floquet topological insulators. Physical Review B, 2018, 97, .	1.1	41
30	From dynamical localization to bunching in interacting Floquet systems. SciPost Physics, 2018, 5, .	1.5	4
31	Photocurrents in Weyl semimetals. Physical Review B, 2017, 95, .	1.1	229
32	Topological Frequency Conversion in Strongly Driven Quantum Systems. Physical Review X, 2017, 7, .	2.8	103
33	Fixed Points of Wegner-Wilson Flows and Many-Body Localization. Physical Review Letters, 2017, 119, 075701.	2.9	69
34	Disorder-induced transitions in resonantly driven Floquet topological insulators. Physical Review B, 2017, 96, .	1.1	23
35	Quantized Magnetization Density in Periodically Driven Systems. Physical Review Letters, 2017, 119, 186801.	2.9	48
36	Remnant Geometric Hall Response in a Quantum Quench. Physical Review Letters, 2016, 117, 235302.	2.9	61

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37	Quantum information sharing between topologically distinct platforms. <i>Physical Review B</i> , 2016, 94, .	1.1	0
38	Dynamical many-body localization in an integrable model. <i>Physical Review B</i> , 2016, 94, .	1.1	22
39	Localization transition in one dimension using Wegner flow equations. <i>Physical Review B</i> , 2016, 94, .	1.1	20
40	Topological polaritons in a quantum spin Hall cavity. <i>Physical Review B</i> , 2016, 93, .	1.1	12
41	Anomalous Floquet-Anderson Insulator as a Nonadiabatic Quantized Charge Pump. <i>Physical Review X</i> , 2016, 6, .	2.8	204
42	Universal Geometric Path to a Robust Majorana Magic Gate. <i>Physical Review X</i> , 2016, 6, .	2.8	59
43	Shortcuts to non-Abelian braiding. <i>Physical Review B</i> , 2015, 91, .	1.1	49
44	Holographic treatment of boundary disorder in a topological insulator. <i>Physical Review B</i> , 2015, 92, .	1.1	6
45	Linear magnetoresistance in metals: Guiding center diffusion in a smooth random potential. <i>Physical Review B</i> , 2015, 92, .	1.1	68
46	Controlled Population of Floquet-Bloch States via Coupling to Bose and Fermi Baths. <i>Physical Review X</i> , 2015, 5, .	2.8	115
47	Disorder-Induced Floquet Topological Insulators. <i>Physical Review Letters</i> , 2015, 114, 056801.	2.9	182
48	Topological Polaritons. <i>Physical Review X</i> , 2015, 5, .	2.8	201
49	Optimal control of Majorana zero modes. <i>Physical Review B</i> , 2015, 91, .	1.1	41
50	Experimental realization of a topological Anderson insulator. , 2015, , .		3
51	Hilbert-Glass Transition: New Universality of Temperature-Tuned Many-Body Dynamical Quantum Criticality. <i>Physical Review X</i> , 2014, 4, .	2.8	197
52	Current amplification and relaxation in Dirac systems. <i>Physical Review B</i> , 2014, 90, .	1.1	9
53	Semiclassical approach to bound states of a pointlike impurity in a two-dimensional Dirac system. <i>Physical Review B</i> , 2014, 89, .	1.1	1
54	Nonperturbative expression for the transmission through a leaky chiral edge mode. <i>Physical Review B</i> , 2014, 89, .	1.1	1

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55	Strong disorder renormalization group primer and the superfluid-insulator transition. <i>Comptes Rendus Physique</i> , 2013, 14, 725-739.	0.3	29
56	Photocurrent response of topological insulator surface states. <i>Physical Review B</i> , 2013, 88, .	1.1	76
57	Magneto-Josephson effects and Majorana bound states in quantum wires. <i>New Journal of Physics</i> , 2013, 15, 115001.	1.2	19
58	Transport through a disordered topological-metal strip. <i>Physical Review B</i> , 2013, 87, .	1.1	7
59	Magneto-Josephson effects in junctions with Majorana bound states. <i>Physical Review B</i> , 2013, 87, .	1.1	43
60	Disordered topological metals. <i>Physical Review B</i> , 2013, 87, .	1.1	9
61	Many-body localization in a quasiperiodic system. <i>Physical Review B</i> , 2013, 87, .	1.1	313
62	Boosting Majorana Zero Modes. <i>Physical Review X</i> , 2013, 3, .	2.8	48
63	Susceptibility at the superfluid-insulator transition for one-dimensional disordered bosons. <i>Physical Review B</i> , 2013, 88, .	1.1	3
64	Thermodynamic measure of the magnetoelectric coupling in a three-dimensional topological insulator. <i>Physical Review B</i> , 2013, 87, .	1.1	3
65	Thermopower and Mott formula for a Majorana edge state. <i>Physical Review B</i> , 2013, 88, .	1.1	23
66	Topological Floquet spectrum in three dimensions via a two-photon resonance. <i>Physical Review B</i> , 2013, 87, .	1.1	131
67	Adiabatic manipulations of Majorana fermions in a three-dimensional network of quantum wires. <i>Physical Review B</i> , 2012, 85, .	1.1	149
68	Fractionalizing Majorana Fermions: Non-Abelian Statistics on the Edges of Abelian Quantum Hall States. <i>Physical Review X</i> , 2012, 2, .	2.8	223
69	Manipulating Majorana fermions using supercurrents. <i>Physical Review B</i> , 2012, 85, .	1.1	70
70	Electrical Manipulation of Majorana Fermions in an Interdigitated Superconductor-Ferromagnet Device. <i>Physical Review Letters</i> , 2012, 109, 126403.	2.9	10
71	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. <i>Physical Review Letters</i> , 2011, 106, 220402.	2.9	606
72	Unconventional Josephson Signatures of Majorana Bound States. <i>Physical Review Letters</i> , 2011, 107, 236401.	2.9	143

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73	Non-Abelian statistics and topological quantum information processing in 1D wire networks. Nature Physics, 2011, 7, 412-417.	6.5	1,285
74	Floquet topological insulator in semiconductor quantum wells. Nature Physics, 2011, 7, 490-495.	6.5	1,385
75	Gapless Excitations in Strongly Fluctuating Superconducting Wires. Physical Review Letters, 2011, 107, 227004.	2.9	0
76	Energy Partitioning of Tunneling Currents into Luttinger Liquids. Physical Review Letters, 2011, 107, 176403.	2.9	18
77	Helical Liquids and Majorana Bound States in Quantum Wires. Physical Review Letters, 2010, 105, 177002.	2.9	2,544
78	Clausius-Clapeyron relations for first-order phase transitions in bilayer quantum Hall systems. Physical Review B, 2010, 81, .	1.1	7
79	Theoretical analysis of drag resistance in amorphous thin films exhibiting superconductor-insulator transitions. Physical Review B, 2010, 82, .	1.1	3
80	Finding the Elusive Sliding Phase in the Superfluid-Normal Phase Transition Smeared by Axis Disorder. Physical Review Letters, 2010, 105, 085302.	2.9	16
81	Particle-hole symmetric localization in optical lattices using time modulated random on-site potentials. Physical Review B, 2010, 82, .	1.1	1
82	Superfluid-insulator transition of disordered bosons in one dimension. Physical Review B, 2010, 81, .	1.1	70
83	RESISTANCE IN SUPERCONDUCTORS. International Journal of Modern Physics B, 2010, 24, 4039-4080.	1.0	44
84	RESISTANCE IN SUPERCONDUCTORS. , 2010, , 185-226.		2
85	Geometrical approach to hydrodynamics and low-energy excitations of spinor condensates. Physical Review B, 2009, 80, .	1.1	54
86	Superconductor to normal-metal transition in finite-length nanowires: Phenomenological model. Physical Review B, 2009, 79, .	1.1	12
87	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
88	Sharp superconductor-insulator transition in short wires. Physica C: Superconductivity and Its Applications, 2008, 468, 341-349.	0.6	6
89	Dissipation-Driven Quantum Phase Transition in Superconductor-Graphene Systems. Physical Review Letters, 2008, 101, 106402.	2.9	16
90	Insulating Phases and Superfluid-Insulator Transition of Disordered Boson Chains. Physical Review Letters, 2008, 100, 170402.	2.9	50

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91	Effect of inhomogeneous coupling on BCS superconductors. Physical Review B, 2008, 77, .	1.1	12
92	Sagnac interference in carbon nanotubes. Physical Review B, 2008, 78, .	1.1	4
93	Sagnac Interference in Carbon Nanotube Loops. Physical Review Letters, 2007, 98, 246803.	2.9	20
94	Sharp Superconductor-Insulator Transition in Short Wires. Physical Review Letters, 2007, 98, 187001.	2.9	37
95	Superconductor-to-normal transitions in dissipative chains of mesoscopic grains and nanowires. Physical Review B, 2007, 75, .	1.1	50
96	Transverse Meissner physics of planar superconductors with columnar pins. Physical Review B, 2006, 74, .	1.1	14
97	Universal point contact resistance between thin-film superconductors. Physical Review B, 2006, 73, .	1.1	0
98	Measuring entanglement entropies in many-body systems. Physical Review A, 2006, 74, .	1.0	63
99	Fate of the Josephson effect in thin-film superconductors. Nature Physics, 2005, 1, 117-121.	6.5	20
100	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
101	Ground-state degeneracy of correlated insulators with edges. Physical Review B, 2005, 72, .	1.1	2
102	Phase Transition in a System of One-Dimensional Bosons with Strong Disorder. Physical Review Letters, 2004, 93, 150402.	2.9	89
103	Dissipation and quantum phase transitions of a pair of Josephson junctions. Physical Review B, 2003, 68, .	1.1	28
104	Spin reduction transition in spin-3/2 random Heisenberg chains. Physical Review B, 2002, 66, .	1.1	46