Itamar Kimchi

List of Publications by Year
in descending order

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29 papers	2,660 citations	430442 18 h-index	500791 28 g-index
29 all docs	29 docs citations	29 times ranked	3037 citing authors

#	Article	IF	Citations
1	Quantum oscillations from surface Fermi arcs in Weyl and Dirac semimetals. Nature Communications, 2014, 5, 5161.	5.8	448
2	Landau quantization and quasiparticle interference in the three-dimensional DiracÂsemimetal Cd3As2. Nature Materials, 2014, 13, 851-856.	13.3	421
3	Transport evidence for Fermi-arc-mediated chirality transfer in the Dirac semimetal Cd3As2. Nature, 2016, 535, 266-270.	13.7	292
4	Realization of a three-dimensional spinâ€“anisotropic harmonic honeycomb iridate. Nature Communications, 2014, 5, 4203.	5.8	230
5	Kitaev-Heisenberg <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>model for the iridates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">...</mml:math>: Doping a spin-orbit Mott insulator: Topological superconductivity from the Kitaev-Heisenberg model and possible application to (Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	159
6		1.1	131
7	xmlns:mml="http://www.w3.org/1998/ Kitaev-Heisenberg models for iridates on the triangular, hyperkagome, kagome, fcc, and pyrochlore lattices. Physical Review B, 2014, 89, .	1.1	129
8	Valence Bonds in Random Quantum Magnets: Theory and Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbMgGaO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:m Physical Review X, 2018, 8, .	2.8	127
9	Three-dimensional quantum spin liquids in models of harmonic-honeycomb iridates and phase diagram in an infinite-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>D</mml:mi></mml:math>approximation. Physical Review B, 2014, 90, .	1.1	110
10	Scaling and data collapse from local moments in frustrated disordered quantum spin systems. Nature Communications, 2018, 9, 4367.	5.8	89
11	Robust non-Abelian spin liquid and a possible intermediate phase in the antiferromagnetic Kitaev model with magnetic field. Physical Review B, 2018, 97, .	1.1	82
12	Minimal models for topological Weyl semimetals. Physical Review B, 2017, 95, .	1.1	77
13	Unified theory of spiral magnetism in the harmonic-honeycomb iridates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>,</mml:mo><mml:mi>Î²</mml:mi></mml:ma and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î³</mml:mi><mml:mspace Dirac-Mott insulator	1.1	70
14	Dirac metal to topological metal transition at a structural phase change in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Au</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Pb</mml:mi></mml:math>and prediction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>topology	1.1	55
15	Correlated states in Î²-Li2IrO3 driven by applied magnetic fields. Nature Communications, 2017, 8, 961.	5.8	43
16	Colossal magnetoresistance via avoiding fully polarized magnetization in the ferrimagnetic insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>3</mml:mn></mml:msub></mml: Physical Review B, 2021, 103, .	1.1	29
17	Wannier Permanent Wave Functions for Featureless Bosonic Mott Insulators on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:math>-Filled Kagome Lattice. Physical Review Letters, 2013, 110, 125301.	2.9	27
18	Composite fermion duality for half-filled multicomponent Landau levels. Physical Review B, 2017, 95, .	1.1	27

#	Article	IF	Citations
19	Nonequilibrium orbital transitions via applied electrical current in calcium ruthenates. Physical Review B, 2019, 100, .	1.1	17
20	Magnetic field-dependent low-energy magnon dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>â€“</mml:mo><mml:msub><mml:mi>RuCl</mml:mi> Physical Review B, 2019, 100, .	1.1	16
21	Quantum liquid from strange frustration in the trimer magnet Ba4Ir3O10. Npj Quantum Materials, 2020, 5, .	1.8	14
22	Topological crystalline Bose insulator in two dimensions via entanglement spectrum. Physical Review B, 2015, 92, .	1.1	12
23	Mean-Field Scaling of the Superfluid to Mott Insulator Transition in a 2D Optical Superlattice. Physical Review Letters, 2017, 119, 100402.	2.9	12
24	Spin dynamics of counterrotating Kitaev spirals via duality. Physical Review B, 2016, 94, .	1.1	11
25	Tunable-spin-model generation with spin-orbit-coupled fermions in optical lattices. Physical Review Research, 2021, 3, .	1.3	11
26	Anomalous localization at the boundary of an interacting topological insulator. Physical Review B, 2020, 101, .	1.1	9
27	High-temperature magnetic anomaly in the Kitaev hyperhoneycomb compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â€™</mml:mtext><mml:msub> Physical Review B, 2020, 101, .	1.1	7
28	Quest for quantum states via field-altering technology. Npj Quantum Materials, 2020, 5, .	1.8	4
29	Ground state in the novel dimer iridate Ba13Ir6O30 with Ir6+(5d3) ions. Physical Review B, 2019, 100, .	1.1	1