

Itamar Kimchi

List of Publications by Year in descending order

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29
papers

2,660
citations

430442

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h-index

500791

28
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29
all docs

29
docs citations

29
times ranked

3037
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable-spin-model generation with spin-orbit-coupled fermions in optical lattices. Physical Review Research, 2021, 3, .	1.3	11
2	Colossal magnetoresistance via avoiding fully polarized magnetization in the ferrimagnetic insulator $\langle \mathbf{m}_i \cdot \mathbf{m}_j \rangle \propto \frac{1}{3} \langle \mathbf{m}_i \cdot \mathbf{m}_j \rangle$ Physical Review B, 2021, 103, .	1.1	29
3	Quantum liquid from strange frustration in the trimer magnet Ba ₄ Ir ₃ O ₁₀ . Npj Quantum Materials, 2020, 5, .	1.8	14
4	Quest for quantum states via field-altering technology. Npj Quantum Materials, 2020, 5, .	1.8	4
5	High-temperature magnetic anomaly in the Kitaev hyperhoneycomb compound $\chi \sim \frac{1}{T} \ln \left(\frac{1}{T} \right)$ Physical Review B, 2020, 101, .		
6	Anomalous localization at the boundary of an interacting topological insulator. Physical Review B, 2020, 101, .	1.1	9
7	Magnetic field-dependent low-energy magnon dynamics in $\chi \sim \frac{1}{T} \ln \left(\frac{1}{T} \right)$ Physical Review B, 2019, 100, .		
8	Ground state in the novel dimer iridate Ba ₁₃ Ir ₆ O ₃₀ with Ir ⁶⁺ (5d ³) ions. Physical Review B, 2019, 100, .	1.1	1
9	Nonequilibrium orbital transitions via applied electrical current in calcium ruthenates. Physical Review B, 2019, 100, .	1.1	17
10	Scaling and data collapse from local moments in frustrated disordered quantum spin systems. Nature Communications, 2018, 9, 4367.	5.8	89
11	Valence Bonds in Random Quantum Magnets: Theory and Application to $\chi \sim \frac{1}{T} \ln \left(\frac{1}{T} \right)$ Physical Review X, 2018, 8, .	2.8	127
12	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
13	Minimal models for topological Weyl semimetals. Physical Review B, 2017, 95, .	1.1	77
14	Composite fermion duality for half-filled multicomponent Landau levels. Physical Review B, 2017, 95, .	1.1	27
15	Mean-Field Scaling of the Superfluid to Mott Insulator Transition in a 2D Optical Superlattice. Physical Review Letters, 2017, 119, 100402.	2.9	12
16	Correlated states in $\hat{\text{I}}^2\text{-Li}_2\text{IrO}_3$ driven by applied magnetic fields. Nature Communications, 2017, 8, 961.	5.8	43
17	Transport evidence for Fermi-arc-mediated chirality transfer in the Dirac semimetal Cd ₃ As ₂ . Nature, 2016, 535, 266-270.	13.7	292
18	Spin dynamics of counterrotating Kitaev spirals via duality. Physical Review B, 2016, 94, .	1.1	11

#	ARTICLE	IF	CITATIONS
19	Dirac metal to topological metal transition at a structural phase change in Au_2Pb and prediction of topology	1.1	55
20	Topological crystalline Bose insulator in two dimensions via entanglement spectrum. Physical Review B, 2015, 92, .	1.1	12
21	Unified theory of spiral magnetism in the harmonic-honeycomb iridates LiIrO_4 and LiIrO_3	1.1	70
22	Realization of a three-dimensional spin \hat{c} anisotropic harmonic honeycomb iridate. Nature Communications, 2014, 5, 4203.	5.8	230
23	Kitaev-Heisenberg models for iridates on the triangular, hyperkagome, kagome, fcc, and pyrochlore lattices. Physical Review B, 2014, 89, .	1.1	129
24	Quantum oscillations from surface Fermi arcs in Weyl and Dirac semimetals. Nature Communications, 2014, 5, 5161.	5.8	448
25	Landau quantization and quasiparticle interference in the three-dimensional Dirac semimetal Cd_3As_2 . Nature Materials, 2014, 13, 851-856.	13.3	421
26	Three-dimensional quantum spin liquids in models of harmonic-honeycomb iridates and phase diagram in an infinite- D approximation. Physical Review B, 2014, 90, .	1.1	110
27	Wannier Permanent Wave Functions for Featureless Bosonic Mott Insulators on the Kagome Lattice. Physical Review Letters, 2013, 110, 127401.	2.9	27
28	Doping a spin-orbit Mott insulator: Topological superconductivity from the Kitaev-Heisenberg model and possible application to $(\text{Na}, \text{Tl})\text{ETf}_3\text{O}_7$. Physical Review Letters, 2013, 110, 127401.	1.1	131
29	Kitaev-Heisenberg- J_2 model for the iridates A_2IrO_6	1.1	159