

# George Jackeli

## List of Publications by Year in descending order

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47  
papers

5,065  
citations

279487

23  
h-index

243296

44  
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49  
all docs

49  
docs citations

49  
times ranked

3183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mott Insulators in the Strong Spin-Orbit Coupling Limit: From Heisenberg to a Quantum Compass and Kitaev Models. <i>Physical Review Letters</i> , 2009, 102, 017205.	2.9	1,708
2	Kitaev-Heisenberg Model on a Honeycomb Lattice: Possible Exotic Phases in Iridium Oxides $\langle A \rangle^2 \langle \text{IrO} \rangle$ <i>Physical Review Letters</i> , 2010, 105, 027204.	2.9	847
3	Concept and realization of Kitaev quantum spin liquids. <i>Nature Reviews Physics</i> , 2019, 1, 264-280.	11.9	464
4	Zigzag Magnetic Order in the Iridium Oxide $\langle Na \rangle^2 \langle \text{IrO} \rangle$ <i>Physical Review Letters</i> , 2013, 110, 097204.	2.9	405
5	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na <sub>2</sub> IrO <sub>3</sub> . <i>Nature Physics</i> , 2015, 11, 462-466.	6.5	321
6	A spin-orbital-entangled quantum liquid on a honeycomb lattice. <i>Nature</i> , 2018, 554, 341-345.	13.7	276
7	Large Spin-Wave Energy Gap in the Bilayer Iridate $\langle \text{Sr} \rangle^3 \langle \text{Ir} \rangle \langle \text{O} \rangle^7$ : Evidence for Enhanced Dipolar Interactions Near the Mott Metal-Insulator Transition. <i>Physical Review Letters</i> , 2012, 109, 157402.	2.9	121
8	Dimensionality Driven Spin-Flop Transition in Layered Iridates. <i>Physical Review Letters</i> , 2012, 109, 037204.	2.9	117
9	Emergent $\langle \text{SU} \rangle$ $\langle \text{Tj} \rangle$ $\langle \text{ETQq1} \rangle$ $\langle \text{rgBT} \rangle$ $\langle \text{Overlock} \rangle$ $\langle \text{Tf} \rangle$ $\langle \text{Jd} \rangle$ (stretchy="false") <i>Physical Review Letters</i> , 2012, 109, 157402.	2.9	64
10	Orbital order in vanadium spinels. <i>Physical Review B</i> , 2005, 72, .	1.1	57
11	Valence-Bond Crystal in a Pyrochlore Antiferromagnet with Orbital Degeneracy. <i>Physical Review Letters</i> , 2004, 93, 077208.	2.9	56
12	Magnetically Hidden Order of Kramers Doublets in 1D Systems: Sr <sub>2</sub> VO <sub>4</sub> . <i>Physical Review Letters</i> , 2009, 103, 067205.	2.9	56
13	Phase diagram and spin correlations of the Kitaev-Heisenberg model: Importance of quantum effects. <i>Physical Review B</i> , 2017, 95, .	1.1	49
14	Spin-Orbit Dimers and Noncollinear Phases in $\langle d \rangle^1 \langle \text{Cubic} \rangle$ Double Perovskites. <i>Physical Review Letters</i> , 2017, 118, 217202.	2.9	49
15	Classical Dimers and Dimerized Superstructure in an Orbital Degenerate Honeycomb Antiferromagnet. <i>Physical Review Letters</i> , 2008, 100, 147203.	2.9	44
16	Low-energy magnetic excitations in the spin-orbital Mott insulator $\langle \text{Sr} \rangle^2 \langle \text{Ir} \rangle^2 \langle \text{O} \rangle^4$ <i>Physical Review B</i> , 2014, 89, .	1.1	44
17	Charge- and magnetic-ordering in a two-orbital double-exchange model for manganites. <i>Physical Review B</i> , 2000, 62, 372-378.	1.1	43
18	Strain- and pressure-tuned magnetic interactions in honeycomb Kitaev materials. <i>Physical Review B</i> , 2018, 98, .	1.1	43

#	ARTICLE	IF	CITATIONS
19	Quantum order by disorder in the Kitaev model on a triangular lattice. Physical Review B, 2015, 92, .	1.1	35
20	Spin, Orbital, and Charge Order at the Interface between Correlated Oxides. Physical Review Letters, 2008, 101, 216804.	2.9	27
21	Frustrated Antiferromagnets at High Fields: Bose-Einstein Condensation in Degenerate Spectra. Physical Review Letters, 2004, 93, .	2.9	26
22	Dimer phases in quantum antiferromagnets with orbital degeneracy. Physical Review B, 2007, 76, .	1.1	26
23	Charge dynamics and optical conductivity of the $J$ model. Physical Review B, 1999, 60, 5266-5275.	1.1	23
24	Valence-bond crystal and lattice distortions in a pyrochlore antiferromagnet with orbital degeneracy. Physical Review B, 2005, 72, .	1.1	21
25	Model analysis of magnetic susceptibility of $Sr_2Ca_2Mn_2O_{10}$ : A two-dimensional $S=1$ spin system. Physical Review B, 2005, 72, .	1.1	21
26	One-dimensional dispersive magnon excitation in the frustrated spin-2 chain system $Ca_2Mn_2O_7$ . Physical Review B, 2005, 72, .	1.1	17
27	Doping dependence of the exchange energies in bilayer manganites: Role of orbital degrees of freedom. Physical Review B, 2002, 65, .	1.1	15
28	Exploring spin-orbital models with dipolar fermions in zigzag optical lattices. Physical Review B, 2012, 86, .	1.1	13
29	Microscopic model, spin-wave theory, and competing orders in double perovskites. Physical Review B, 2003, 68, .	1.1	12
30	SU(4)-symmetric quantum spin-orbital liquids on various lattices. Physical Review B, 2021, 104, .	1.1	11
31	Giant Magnetoelastic-Coupling Driven Spin-Lattice Liquid State in Molybdate Pyrochlores. Physical Review Letters, 2019, 122, 227202.	2.9	10
32	Dynamic spin susceptibility in the $J$ model. Theoretical and Mathematical Physics (Russian Federation), 1998, 114, 335-344.	0.3	9
33	Effective spin-orbital Hamiltonian for the double perovskite $Sr_2FeWO_6$ : Derivation of the phase diagram. Physical Review B, 2003, 67, .	1.1	9
34	Theory of spin-wave excitations of metallic A-type antiferromagnetic manganites. Physical Review B, 2001, 64, .	1.1	5
35	The ground state phases of orbitally degenerate spinel oxides. Journal of Molecular Structure, 2007, 838, 220-222.	1.8	5
36	Superfluidity of bosons on a deformable lattice. Physical Review B, 2001, 63, .	1.1	3

#	ARTICLE	IF	CITATIONS
37	Anisotropic exchange and noncollinear antiferromagnets on a noncentrosymmetric fcc half-Heusler structure. <i>Physical Review B</i> , 2022, 105, .	1.1	3
38	Normal Fermi-liquid behavior of quasiholes in the spin-polaron model for copper oxides. <i>Physical Review B</i> , 1997, 56, 3540-3543.	1.1	2
39	Ground-state properties and excitation spectra of non-Galilean-invariant interacting Bose systems. <i>Physical Review B</i> , 2001, 64, .	1.1	2
40	Magnetic and electronic properties of spin-orbit coupled Dirac electrons on a (001) thin film of double-perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> . <i>Physical Review Materials</i> , 2020, 4, .	0.9	2
41	Renormalization Group Approach to the One-Quarter-Filled Hubbard Model with Alternating on-Site Interactions. <i>International Journal of Modern Physics B</i> , 1997, 11, 1925-1936.	1.0	1
42	Spin and charge fluctuations in the J model. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 723-724.	1.3	1
43	Spin wave theory of ferrimagnetic double perovskites. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 501-502.	1.0	1
44	Quantum gap and spin-wave excitations in the Kitaev model on a triangular lattice. <i>Physica B: Condensed Matter</i> , 2018, 536, 350-352.	1.3	1
45	Alternating chain with Hubbard-type interactions: Renormalization group analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 246, 163-171.	0.9	0
46	An effective spin-orbital Hamiltonian for Sr <sub>2</sub> FeWO <sub>6</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 132-133.	1.0	0
47	Spin Dynamics of Bilayer Manganites. , 2004, , 321-382.		0