George Jackeli

List of Publications by Year
in descending order

47	5,065	279487	243296
papers	citations	23 h-index	44 g-index

49	49	49	3183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anisotropic exchange and noncollinear antiferromagnets on a noncentrosymmetric fcc half-Heusler structure. Physical Review B, 2022, 105, .	1.1	3
2	SU(4)-symmetric quantum spin-orbital liquids on various lattices. Physical Review B, 2021, 104, .	1.1	11
3	Magnetic and electronic properties of spin-orbit coupled Dirac electrons on a (001) thin film of double-perovskite Sr2FeMoO6. Physical Review Materials, 2020, 4, .	0.9	2
4	Giant Magnetoelastic-Coupling Driven Spin-Lattice Liquid State in Molybdate Pyrochlores. Physical Review Letters, 2019, 122, 227202.	2.9	10
5	Concept and realization of Kitaev quantum spin liquids. Nature Reviews Physics, 2019, 1, 264-280.	11.9	464
6	A spinâ€“orbital-entangled quantum liquid on a honeycomb lattice. Nature, 2018, 554, 341-345.	13.7	276
7	Quantum gap and spin-wave excitations in the Kitaev model on a triangular lattice. Physica B: Condensed Matter, 2018, 536, 350-352.	1.3	1
8	Strain- and pressure-tuned magnetic interactions in honeycomb Kitaev materials. Physical Review B, 2018, 98, .	1.1	43
9	Emergent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>SU</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>4</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td (stretchy="false"> xmlns:mml="http://www.w3.org/1998/Math/MathML"	2.9	64
10	display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â€</mml:mtext><mml:msub><mml:mrow><mml:mi>ZrCl</mml:mi><mml:mi><mml:mn>2</mml:mn></mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Phase diagram and spin correlations of the Kitaev-Heisenberg model: Importance of quantum effects. Physical Review B, 2017, 95, .	1.1	49
11	Spin-Orbit Dimers and Noncollinear Phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>d</mml:mi><mml:mn>1</mml:mn></mml:msup></mml:math> Cubic Double Perovskites. Physical Review Letters, 2017, 118, 217202.	2.9	49
12	Model analysis of magnetic susceptibility of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>Sr</mml:mtext><mml:mn>2</mml:mn><mml:mi>Ir</mml:mi><mml:mi>O</mml:mi></mml:msub></mml:mrow></mml:math>: A two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml:msub></mml:mrow></mml:math> Physical Review B, 2016, 94, .	1.1	21
13	Quantum order by disorder in the Kitaev model on a triangular lattice. Physical Review B, 2015, 92, .	1.1	35
14	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na2IrO3. Nature Physics, 2015, 11, 462-466.	6.5	321
15	Low-energy magnetic excitations in the spin-orbital Mott insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ir</mml:mi><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:math>. Physical Review B, 2014, 89, .	1.1	49
16	One-dimensional dispersive magnon excitation in the frustrated spin-2 chain system Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>.	1.1	17
17	Zigzag Magnetic Order in the Iridium Oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>IrO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 110, 097204.	2.9	405
18	Large Spin-Wave Energy Gap in the Bilayer Iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Ir</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>: Evidence for Enhanced Dipolar Interactions Near the Mott Metal-Insulator Transition. Physical Review Letters, 2012, 109, 157402.	2.9	121

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19	Exploring spin-orbital models with dipolar fermions in zigzag optical lattices. Physical Review B, 2012, 86, .	1.1	13
20	Dimensionality Driven Spin-Flop Transition in Layered Iridates. Physical Review Letters, 2012, 109, 037204.	2.9	117
21	Kitaev-Heisenberg Model on a Honeycomb Lattice: Possible Exotic Phases in Iridium Oxides<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>A</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>IrO</mml:mi><mml:mn Physical Review Letters, 2010, 105, 027204.	2.9	847
22	Magnetically Hidden Order of Kramers Doublets ind1Systems:Sr2VO4. Physical Review Letters, 2009, 103, 067205.	2.9	56
23	Mott Insulators in the Strong Spin-Orbit Coupling Limit: From Heisenberg to a Quantum Compass and Kitaev Models. Physical Review Letters, 2009, 102, 017205.	2.9	1,708
24	Spin, Orbital, and Charge Order at the Interface between Correlated Oxides. Physical Review Letters, 2008, 101, 216804.	2.9	27
25	Classical Dimers and Dimerized Superstructure in an Orbitally Degenerate Honeycomb Antiferromagnet. Physical Review Letters, 2008, 100, 147203.	2.9	44
26	Dimer phases in quantum antiferromagnets with orbital degeneracy. Physical Review B, 2007, 76, .	1.1	26
27	The ground state phases of orbitally degenerate spinel oxides. Journal of Molecular Structure, 2007, 838, 220-222.	1.8	5
28	Orbital order in vanadium spinels. Physical Review B, 2005, 72, .	1.1	57
29	Valence-bond crystal and lattice distortions in a pyrochlore antiferromagnet with orbital degeneracy. Physical Review B, 2005, 72, .	1.1	21
30	Frustrated Antiferromagnets at High Fields: Bose-Einstein Condensation in Degenerate Spectra. Physical Review Letters, 2004, 93, .	2.9	26
31	Valence-Bond Crystal in a Pyrochlore Antiferromagnet with Orbital Degeneracy. Physical Review Letters, 2004, 93, 077208.	2.9	56
32	An effective spinâ€“orbital Hamiltonian for Sr2FeWO6. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 132-133.	1.0	0
33	Spin wave theory of ferrimagnetic double perovskites. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 501-502.	1.0	1
34	Spin Dynamics of Bilayer Manganites. , 2004, , 321-382.		0
35	Microscopic model, spin-wave theory, and competing orders in double perovskites. Physical Review B, 2003, 68, .	1.1	12
36	Effective spin-orbital Hamiltonian for the double perovskiteSr2FeWO6:Derivation of the phase diagram. Physical Review B, 2003, 67, .	1.1	9

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37	Doping dependence of the exchange energies in bilayer manganites:â€ƒRole of orbital degrees of freedom. Physical Review B, 2002, 65, .	1.1	15
38	Theory of spin-wave excitations of metallicA-type antiferromagnetic manganites. Physical Review B, 2001, 64, .	1.1	5
39	Superfluidity of bosons on a deformable lattice. Physical Review B, 2001, 63, .	1.1	3
40	Ground-state properties and excitation spectra of non-Galilean-invariant interacting Bose systems. Physical Review B, 2001, 64, .	1.1	2
41	Charge- and magnetic-ordering in a two-orbital double-exchange model for manganites. Physical Review B, 2000, 62, 372-378.	1.1	43
42	Charge dynamics and optical conductivity of thetâ^Jmodel. Physical Review B, 1999, 60, 5266-5275.	1.1	23
43	Spin and charge fluctuations in the tâ€“J model. Physica B: Condensed Matter, 1999, 259-261, 723-724.	1.3	1
44	Dynamic spin susceptibility in thet-J model. Theoretical and Mathematical Physics(Russian Federation), 1998, 114, 335-344.	0.3	9
45	Alternating chain with Hubbard-type interactions: Renormalization group analysis. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 246, 163-171.	0.9	0
46	Renormalization Group Approach to the Oneâ€“Dimensional 1/4â€“Filled Hubbard Model with Alternating onâ€“Site Interactions. International Journal of Modern Physics B, 1997, 11, 1925-1936.	1.0	1
47	Normal Fermi-liquid behavior of quasiholes in the spin-polaron model for copper oxides. Physical Review B, 1997, 56, 3540-3543.	1.1	2