Ying-Jer Kao

List of Publications by Year
in descending order

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67 papers	1,281 citations	361045 20 h-index	377514 34 g-index
68 all docs	68 docs citations	68 times ranked	1246 citing authors

#	Article	IF	Citations
1	Higgs transition from a magnetic Coulomb liquid to a ferromagnet in Yb2Ti2O7. Nature Communications, 2012, 3, 992.	5.8	170
2	Towards a holographic model of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math>-wave superconductors. Physical Review D, 2010, 81, .	1.6	74
3	Understanding paramagnetic spin correlations in the spin-liquid pyrochloreTb2Ti2O7. Physical Review B, 2003, 68, .	1.1	73
4	Pair excitations, collective modes, and gauge invariance in the BCSâ€“Bose-Einstein crossover scenario. Physical Review B, 2000, 61, 11662-11675.	1.1	69
5	Frequency evolution of neutron peaks belowTc:Commensurate and incommensurate structure inLa0.85Sr0.15CuO4andYBa2Cu3O6.6. Physical Review B, 2000, 61, R11898-R11901.	1.1	65
6	Induced Random Fields in theLiHoxY1âˆ'xF4Quantum Ising Magnet in a Transverse Magnetic Field. Physical Review Letters, 2006, 97, 237203.	2.9	65
7	Finite-size scaling method for the Berezinskiiâ€“Kosterlitzâ€“Thouless transition. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09001.	0.9	54
8	Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</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>2</mml:mn></mml:msub></mml:math>Heisenberg	1.1	49
9	Supersolidity from defect condensation in the extended boson Hubbard model. Physical Review B, 2008, 77, .	1.1	49
10	Symmetry breaking and criticality in tensor-product states. Physical Review B, 2010, 82, .	1.1	30
11	Steady States of Infinite-Size Dissipative Quantum Chains via Imaginary Time Evolution. Physical Review Letters, 2017, 119, 010501.	2.9	30
12	Gapless spin liquid in the kagome Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interactions. Physical Review B, 2018, 98, .	1.1	28
13	Anisotropic spin and charge excitations in superconductors: Signature of electronic nematic order. Physical Review B, 2005, 72, .	1.1	26
14	Uni10: an open-source library for tensor network algorithms. Journal of Physics: Conference Series, 2015, 640, 012040.	0.3	25
15	Quantum phase transitions driven by rhombic-type single-ion anisotropy in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> Haldane chain. Physical Review B, 2017, 96, .	1.1	25
16	The spin liquid state of the Tb2Ti2O7pyrochlore antiferromagnet: a puzzling state of affairs. Journal of Physics Condensed Matter, 2004, 16, S673-S678.	0.7	24
17	Magnetic correlations in the spin iceHo2âˆ'xYxTi2O7as revealed by neutron polarization analysis. Physical Review B, 2010, 82, .	1.1	24
18	Magnetic-field effects in the pseudogap phase: A competing energy gap scenario for precursor superconductivity. Physical Review B, 2001, 64, .	1.1	23

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19	Entanglement Renyi Negativity across a Finite Temperature Transition: A MonteÂCarlo study. Physical Review Letters, 2020, 125, 140603.	2.9	23
20	Variational quantum reinforcement learning via evolutionary optimization. Machine Learning: Science and Technology, 2022, 3, 015025.	2.4	22
21	Accurate computation of low-temperature thermodynamics for quantum spin chains. Physical Review B, 2012, 86, .	1.1	19
22	Griffiths singularities in the random quantum Ising antiferromagnet: A tree tensor network renormalization group study. Physical Review B, 2017, 96, .	1.1	19
23	An end-to-end trainable hybrid classical-quantum classifier. Machine Learning: Science and Technology, 2021, 2, 045021.	2.4	19
24	Perturbative quantum Monte Carlo study ofLiHoF4in a transverse magnetic field. Physical Review B, 2008, 78, .	1.1	18
25	Peak-dip-hump lineshape from holographic superconductivity. Physical Review D, 2010, 82, .	1.6	17
26	Variational Monte Carlo simulations using tensor-product projected states. Physical Review B, 2015, 91, .	1.1	15
27	Impurity-Induced Frustration in Correlated Oxides. Physical Review Letters, 2009, 102, 167201.	2.9	14
28	Plaquette renormalization scheme for tensor network states. Physical Review E, 2011, 83, 056703.	0.8	14
29	Nonmagnetic impurity perturbation to the quasi-two-dimensional quantum helimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiCu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 82, .	1.1	11
30	History-dependent phenomena in the transverse Ising ferroglass:â€,The free-energy landscape. Physical Review B, 2001, 64, .	1.1	10
31	Low-temperature muon spin rotation studies of the monopole charges and currents in Y doped Ho2Ti2O7. Scientific Reports, 2013, 3, 1881.	1.6	10
32	abPlane ac Conductivity in the Cuprates: Pseudogap Effects belowTc. Physical Review Letters, 2003, 90, 187003.	2.9	9
33	U(1)spin liquids and valence-bond solids in a large-Nthree-dimensional Heisenberg model. Physical Review B, 2005, 71, .	1.1	9
34	Half-magnetization plateau of a dipolar spin ice in a [100] field. Physical Review B, 2013, 88, .	1.1	9
35	Generation of ice states through deep reinforcement learning. Physical Review E, 2019, 99, 062106.	0.8	9
36	Excitation spectrum of spin-1 Kitaev spin liquids. Physical Review B, 2022, 105, .	1.1	9

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37	The origin of the pseudogap phase: precursor superconductivity versus a competing energy gap scenario. Journal of Physics and Chemistry of Solids, 2002, 63, 2233-2236.	1.9	8
38	GPU accelerated tensor contractions in the plaquette renormalization scheme. Computers and Fluids, 2011, 45, 55-58.	1.3	8
39	Long-time dynamics of quantum chains: Transfer-matrix renormalization group and entanglement of the maximal eigenvector. Physical Review B, 2014, 89, .	1.1	8
40	Theory of non-Fermi liquid near a diagonal electronic nematic state on a square lattice. Physical Review B, 2007, 76, .	1.1	7
41	Magnetic correlations in HoxTb2âˆ'xTi2O7. Physical Review B, 2011, 83, .	1.1	7
42	Crossover of correlation functions near a quantum impurity in a Tomonaga-Luttinger liquid. Physical Review B, 2019, 99, .	1.1	7
43	Pair-breaking effects in the pseudogap regime: Application to high-temperature superconductors. Physical Review B, 2002, 66, .	1.1	6
44	Quantum impurity in a Luttinger liquid: Universal conductance with entanglement renormalization. Physical Review B, 2014, 90, .	1.1	6
45	Dynamic scaling in the two-dimensional Ising spin glass with normal-distributed couplings. Physical Review E, 2017, 96, 052102.	0.8	6
46	Neural Monte Carlo renormalization group. Physical Review Research, 2021, 3, .	1.3	6
47	Quantum order by disorder in a semiclassical spin ice. Physical Review B, 2010, 82, .	1.1	5
48	Phase boundary location with information-theoretic entropy in tensor renormalization group flows. Physical Review B, 2019, 100, .	1.1	5
49	Phase structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> model in the presence of a topological <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¸</mml:mi></mml:math> term. Physical Review B, 2022, 105, .	1.6	5
50	Tuning the Disorder in Superglasses. Physical Review Letters, 2012, 109, 157202.	2.9	4
51	Inverse order-disorder transition of charge stripes. Physical Review B, 2015, 92, .	1.1	4
52	Field-induced ordering in dipolar spin ice. Physical Review B, 2016, 93, .	1.1	4
53	Tunneling-induced restoration of classical degeneracy in quantum kagome ice. Physical Review B, 2019, 99, .	1.1	4
54	A precursor superconductivity approach to magnetic field effects in the pseudogap phase. Journal of Physics and Chemistry of Solids, 2002, 63, 2349-2351.	1.9	3

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55	Length- and temperature-dependent crossover of charge transport across molecular junctions. Physical Review B, 2011, 84, .	1.1	3
56	Two-wire junction of inequivalent Tomonaga-Luttinger liquids. Physical Review B, 2021, 104, .	1.1	3
57	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>J</mml:mi><mml:msub><mml:mrow /><mml:mn>1</mml:mn></mml:msub><mml:mo>â^'</mml:mo><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msu fractal studied by multirecursion tensor-network method. Physical Review E, 2022, 105, 024124.	0.8	3
58	The temperature evolution of the magnetic correlations in pure and diluted spin ice Ho2â^'xYxTi2O7. Physica B: Condensed Matter, 2011, 406, 2393-2396.	1.3	2
59	Detecting transition between Abelian and non-Abelian topological orders through symmetric tensor networks. Physical Review B, 2021, 104, .	1.1	2
60	Emergent snake magnetic domains in canted kagome ice. Physical Review Research, 2020, 2, .	1.3	2
61	MAGNETIC FIELD EFFECTS On Tc AND THE PSEUDOGAP ONSET TEMPERATURE IN CUPRATE SUPERCONDUCTORS. International Journal of Modern Physics B, 2002, 16, 3176-3179.	1.0	1
62	Short-loop algorithm for quantum Monte Carlo simulations. Physical Review E, 2008, 77, 036708.	0.8	1
63	Impurity induced interactions in diluted La2CuO4. Physica C: Superconductivity and Its Applications, 2010, 470, S113-S114.	0.6	1
64	Symmetry between repulsive and attractive interactions in driven-dissipative Bose-Hubbard systems. Scientific Reports, 2018, 8, 3698.	1.6	1
65	Commensurate and incommensurate structure of the neutron cross section in LaSrCuO and YBaCuO. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2165-2166.	0.6	0
66	A precursor superconductivity approach to magnetic field effects in the pseudogap phase. Physica B: Condensed Matter, 2002, 312-313, 42-43.	1.3	0
67	MAGNETIC FIELD EFFECTS ON T_C AND THE PSEUDOGAP ONSET TEMPERATURE IN CUPRATE SUPERCONDUCTORS. , 2002, , .		0