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	Excitation spectrum of spin-1 Kitaev spin liquids. Physical Review B, 2022, 105, .	1.1	9
2	Variational quantum reinforcement learning via evolutionary optimization. Machine Learning: Science and Technology, 2022, 3, 015025.	2.4	22
3	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 D, 2022, 105, .	1.6	5
4	<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:msub></mml:math> fractal studied by multirecursion tensor-network method. Physical Review E, 2022, 105, 024124.	0.8	3
5	Neural Monte Carlo renormalization group. Physical Review Research, 2021, 3, .	1.3	6
6	Detecting transition between Abelian and non-Abelian topological orders through symmetric tensor networks. Physical Review B, 2021, 104, .	1.1	2
7	An end-to-end trainable hybrid classical-quantum classifier. Machine Learning: Science and Technology, 2021, 2, 045021.	2.4	19
8	Two-wire junction of inequivalent Tomonaga-Luttinger liquids. Physical Review B, 2021, 104, .	1.1	3
9	Entanglement Renyi Negativity across a Finite Temperature Transition: A MonteÂCarlo study. Physical Review Letters, 2020, 125, 140603.	2.9	23
10	Emergent snake magnetic domains in canted kagome ice. Physical Review Research, 2020, 2, .	1.3	2
11	Phase boundary location with information-theoretic entropy in tensor renormalization group flows. Physical Review B, 2019, 100, .	1.1	5
12	Generation of ice states through deep reinforcement learning. Physical Review E, 2019, 99, 062106.	0.8	9
13	Tunneling-induced restoration of classical degeneracy in quantum kagome ice. Physical Review B, 2019, 99, .	1.1	4
14	Crossover of correlation functions near a quantum impurity in a Tomonaga-Luttinger liquid. Physical Review B, 2019, 99, .	1.1	7
15	Gapless spin liquid in the kagome Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interactions. Physical Review B, 2018, 98, .	1.1	28
16	Symmetry between repulsive and attractive interactions in driven-dissipative Bose-Hubbard systems. Scientific Reports, 2018, 8, 3698.	1.6	1
17	Dynamic scaling in the two-dimensional Ising spin glass with normal-distributed couplings. Physical Review E, 2017, 96, 052102.	0.8	6
18	Griffiths singularities in the random quantum Ising antiferromagnet: A tree tensor network renormalization group study. Physical Review B, 2017, 96, .	1.1	19

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19	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
20	Steady States of Infinite-Size Dissipative Quantum Chains via Imaginary Time Evolution. Physical Review Letters, 2017, 119, 010501.	2.9	30
21	Field-induced ordering in dipolar spin ice. Physical Review B, 2016, 93, .	1.1	4
22	Inverse order-disorder transition of charge stripes. Physical Review B, 2015, 92, .	1.1	4
23	Variational Monte Carlo simulations using tensor-product projected states. Physical Review B, 2015, 91, .	1.1	15
24	Uni10: an open-source library for tensor network algorithms. Journal of Physics: Conference Series, 2015, 640, 012040.	0.3	25
25	Long-time dynamics of quantum chains: Transfer-matrix renormalization group and entanglement of the maximal eigenvector. Physical Review B, 2014, 89, .	1.1	8
26	Quantum impurity in a Luttinger liquid: Universal conductance with entanglement renormalization. Physical Review B, 2014, 90, .	1.1	6
27	Half-magnetization plateau of a dipolar spin ice in a [100] field. Physical Review B, 2013, 88, .	1.1	9
28	Low-temperature muon spin rotation studies of the monopole charges and currents in Y doped Ho2Ti2O7. Scientific Reports, 2013, 3, 1881.	1.6	10
29	Finite-size scaling method for the Berezinskiiâ€“Kosterlitzâ€“Thouless transition. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09001.	0.9	54
30	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
31	Tuning the Disorder in Superglasses. Physical Review Letters, 2012, 109, 157202.	2.9	4
32	Higgs transition from a magnetic Coulomb liquid to a ferromagnet in Yb2Ti2O7. Nature Communications, 2012, 3, 992.	5.8	170
33	Accurate computation of low-temperature thermodynamics for quantum spin chains. Physical Review B, 2012, 86, .	1.1	19
34	GPU accelerated tensor contractions in the plaquette renormalization scheme. Computers and Fluids, 2011, 45, 55-58.	1.3	8
35	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
36	Length- and temperature-dependent crossover of charge transport across molecular junctions. Physical Review B, 2011, 84, .	1.1	3

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37	Magnetic correlations in HoxTb2âˆ’xTi2O7. Physical Review B, 2011, 83, .	1.1	7
38	Plaquette renormalization scheme for tensor network states. Physical Review E, 2011, 83, 056703.	0.8	14
39	Impurity induced interactions in diluted La2CuO4. Physica C: Superconductivity and Its Applications, 2010, 470, S113-S114.	0.6	1
40	Symmetry breaking and criticality in tensor-product states. Physical Review B, 2010, 82, .	1.1	30
41	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:ms Physical Review B, 2010, 82, .	1.1	11
42	Magnetic correlations in the spin iceHo2âˆ’xYxTi2O7as revealed by neutron polarization analysis. Physical Review B, 2010, 82, .	1.1	24
43	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
44	Peak-dip-hump lineshape from holographic superconductivity. Physical Review D, 2010, 82, .	1.6	17
45	Quantum order by disorder in a semiclassical spin ice. Physical Review B, 2010, 82, .	1.1	5
46	Impurity-Induced Frustration in Correlated Oxides. Physical Review Letters, 2009, 102, 167201.	2.9	14
47	Short-loop algorithm for quantum Monte Carlo simulations. Physical Review E, 2008, 77, 036708.	0.8	1
48	Perturbative quantum Monte Carlo study ofLiHoF4in a transverse magnetic field. Physical Review B, 2008, 78, .	1.1	18
49	Supersolidity from defect condensation in the extended boson Hubbard model. Physical Review B, 2008, 77, .	1.1	49
50	Theory of non-Fermi liquid near a diagonal electronic nematic state on a square lattice. Physical Review B, 2007, 76, .	1.1	7
51	Induced Random Fields in theLiHoxY1âˆ’xF4Quantum Ising Magnet in a Transverse Magnetic Field. Physical Review Letters, 2006, 97, 237203.	2.9	65
52	U(1)spin liquids and valence-bond solids in a large-Nthree-dimensional Heisenberg model. Physical Review B, 2005, 71, .	1.1	9
53	Anisotropic spin and charge excitations in superconductors: Signature of electronic nematic order. Physical Review B, 2005, 72, .	1.1	26
54	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

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55	abPlane ac Conductivity in the Cuprates: Pseudogap Effects belowTc. Physical Review Letters, 2003, 90, 187003.	2.9	9
56	Understanding paramagnetic spin correlations in the spin-liquid pyrochloreTb2Ti2O7. Physical Review B, 2003, 68, .	1.1	73
57	Pair-breaking effects in the pseudogap regime: Application to high-temperature superconductors. Physical Review B, 2002, 66, .	1.1	6
58	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
59	A precursor superconductivity approach to magnetic field effects in the pseudogap phase. Physica B: Condensed Matter, 2002, 312-313, 42-43.	1.3	0
60	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
61	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
62	MAGNETIC FIELD EFFECTS ON T_C AND THE PSEUDOGAP ONSET TEMPERATURE IN CUPRATE SUPERCONDUCTORS. , 2002, , .		0
63	Magnetic-field effects in the pseudogap phase: A competing energy gap scenario for precursor superconductivity. Physical Review B, 2001, 64, .	1.1	23
64	History-dependent phenomena in the transverse Ising ferroglass:â€‚The free-energy landscape. Physical Review B, 2001, 64, .	1.1	10
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	Frequency evolution of neutron peaks belowTc:Commensurate and incommensurate structure inLa0.85Sr0.15CuO4andYBa2Cu3O6.6. Physical Review B, 2000, 61, R11898-R11901.	1.1	65
67	Pair excitations, collective modes, and gauge invariance in the BCSâ€“Bose-Einstein crossover scenario. Physical Review B, 2000, 61, 11662-11675.	1.1	69