Fu-Jiun Jiang

List of Publications by Year
in descending order

53 papers	802 citations	471509 17 h-index	552781 26 g-index
54 all docs	54 docs citations	54 times ranked	504 citing authors

#	Article	IF	Citations
1	From an antiferromagnet to a valence bond solid: evidence for a first-order phase transition. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P02009.	2.3	94
2	Applications of neural networks to the studies of phase transitions of two-dimensional Potts models. Annals of Physics, 2018, 391, 312-331.	2.8	43
3	The (2 + 1)-d <i>U</i>(1) quantum link model masquerading as deconfined criticality. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P12010.	2.3	42
4	Phase diagram of two-color lattice QCD in the chiral limit. Physical Review D, 2006, 74, .	4.7	31
5	Flavor twisted boundary conditions, pion momentum, and the pion electromagnetic form factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 314-321.	4.1	31
6	Interfaces, strings, and a soft mode in the square lattice quantum dimer model. Physical Review B, 2014, 90, .	3.2	30
7	Extrapolations of lattice meson form factors. Physical Review D, 2006, 74, .	4.7	29
8	High-precision determination of low-energy effective parameters for a two-dimensional Heisenberg quantum antiferromagnet. Physical Review B, 2011, 83, .	3.2	26
9	The constraint effective potential of the staggered magnetization in an antiferromagnet. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P03021.	2.3	25
10	Monte Carlo simulations of an unconventional phase transition for a two-dimensional dimerized quantum Heisenberg model. Physical Review B, 2012, 85, .	3.2	24
11	Chiral corrections and the axial charge of the delta. Physical Review D, 2008, 78, .	4.7	21
12	Hyperon axial charges in two-flavor chiral perturbation theory. Physical Review D, 2009, 80, .	4.7	21
13	Chiral limit of strongly coupled lattice QCD at finite temperatures. Physical Review D, 2003, 68, .	4.7	20
14	Method of calculating the spin-wave velocity of spin-12antiferromagnets withO(N)symmetry in a Monte Carlo simulation. Physical Review B, 2011, 83, .	3.2	18
15	Finite-volume energy spectrum, fractionalized strings, and low-energy effective field theory for the quantum dimer model on the square lattice. Physical Review B, 2016, 94, .	3.2	18
16	A comprehensive neural networks study of the phase transitions of Potts model. New Journal of Physics, 2020, 22, 063016.	2.9	18
17	Nested Cluster Algorithm for Frustrated Quantum Antiferromagnets. Physical Review Letters, 2008, 100, 247206.	7.8	17
18	Loop-cluster simulation of the zero- and one-hole sectors of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>J</mml:mi></mml:mrow></mml:math>mode on the honeycomb lattice. Physical Review B, 2008, 78, .	3.2	17

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19	Chiral corrections to hyperon axial form factors. Physical Review D, 2008, 77, .	4.7	16
20	Current renormalization in finite volume. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 350-357.	4.1	15
21	Monte Carlo determination of the low-energy constants of a spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>Heisenberg model with spatial anisotropy. Physical Review B, 2009, 80, .	3.2	15
22	From the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo>(</mml:mo> quantum link model on the honeycomb lattice to the quantum dimer model on the kagome lattice: Phase transition and fractionalized flux strings. Physical Review B, 2018, 97, .	3.2	15
23	Flavor twisted boundary conditions and the nucleon vector current. Physical Review D, 2008, 78, .	4.7	14
24	Pion polarizabilities and volume effects in lattice QCD. Physical Review D, 2008, 77, .	4.7	14
25	Subtlety of determining the critical exponent Î½ of the spin-1/2 Heisenberg model with a spatially staggered anisotropy on the honeycomb lattice. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P09016.	2.3	14
26	Systematic effective field theory investigation of spiral phases in hole-doped antiferromagnets on the honeycomb lattice. European Physical Journal B, 2009, 69, 473-482.	1.5	13
27	Rotor spectra, berry phases, and monopole fields: From antiferromagnets to QCD. Physical Review D, 2008, 78, .	4.7	11
28	Hyperon electromagnetic properties in two-flavor chiral perturbation theory. Physical Review D, 2010, 81, .	4.7	11
29	Constraint effective potential of the magnetization in the quantum XY model. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P06002.	2.3	10
30	Symmetry analysis of holes localized on a skyrmion in a doped antiferromagnet. Physical Review B, 2012, 86, .	3.2	10
31	A universal neural network for learning phases. European Physical Journal Plus, 2021, 136, 1.	2.6	10
32	Systematic low-energy effective field theory for magnons and holes in an antiferromagnet on the honeycomb lattice. Physical Review B, 2012, 85, .	3.2	9
33	Real-time dynamics of open quantum spin systems driven by dissipative processes. Physical Review B, 2015, 92, .	3.2	9
34	Nematic confined phases in the U(1) quantum link model on a triangular lattice: Near-term quantum computations of string dynamics on a chip. Physical Review Research, 2022, 4, .	3.6	9
35	Kaon thresholds and two-flavor chiral expansions for hyperons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 329-336.	4.1	8
36	Universal scaling of NÃ©el temperature, staggered magnetization density, and spin-wave velocity of three-dimensional disordered and clean quantum antiferromagnets. Physical Review B, 2017, 95, .	3.2	8

#	Article	IF	Citations
37	Machine learning phases and criticalities without using real data for training. Physical Review B, 2020, 102, .	3.2	8
38	Flavor twisted boundary conditions in the Breit frame. Physical Review D, 2008, 78, .	4.7	7
39	Real-time simulation of large open quantum spin systems driven by dissipation. Physical Review B, 2014, 90, .	3.2	7
40	Real-time simulation of nonequilibrium transport of magnetization in large open quantum spin systems driven by dissipation. Physical Review B, 2015, 92, .	3.2	7
41	Quark-jet contribution to the fragmentation functions for the pion and kaon with the nonlocal interactions. Physical Review D, 2013, 87, .	4.7	6
42	Classification for the universal scaling of NÃ©el temperature and staggered magnetization density of three-dimensional dimerized spin- 12 antiferromagnets. Physical Review B, 2018, 97, .	3.2	5
43	Scaling relations of three-dimensional random-exchange quantum antiferromagnets. European Physical Journal B, 2015, 88, 1.	1.5	4
44	Consistency check of charged hadron multiplicities and fragmentation functions in SIDIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 393-402.	4.1	4
45	Holes localized on a Skyrmion in a doped antiferromagnet on the honeycomb lattice: Symmetry analysis. Annals of Physics, 2015, 354, 213-243.	2.8	3
46	Universal quantum criticality at finite temperature for two-dimensional disordered and clean dimerized spin- 12 antiferromagnets. Physical Review B, 2018, 98, .	3.2	3
47	Berezinskiiâ€"Kosterlitzâ€"Thouless transition â€" A universal neural network study with benchmarks. Results in Physics, 2022, 33, 105134.	4.1	3
48	Validity of the Harris criterion for two-dimensional quantum spin systems with quenched disorder. Physical Review B, 2020, 101, .	3.2	2
49	Universal scaling of three-dimensional dimerized quantum antiferromagnets on bipartite lattices. Physical Review B, 2020, 101, .	3.2	1
50	Quantum criticality at finite temperature for two-dimensionalâ€‰JQ3 models on the square and the honeycomb lattices. Chinese Journal of Physics, 2022, , .	3.9	1
51	Monte Carlo determination of the low-energy constants for a two-dimensional spin-1 Heisenberg model with spatial anisotropy. European Physical Journal B, 2017, 90, 1.	1.5	0
52	Unpolarized dihadron fragmentation functions in nonlocal chiral quark model. Chinese Journal of Physics, 2021, 71, 248-259.	3.9	0
53	Ground-state energy density, susceptibility, and Wilson ratio of a two-dimensional disordered quantum spin system. Physical Review B, 2020, 102, .	3.2	0