

Fu-Jiun Jiang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Quantum criticality at finite temperature for two-dimensional Q_3 models on the square and the honeycomb lattices. Chinese Journal of Physics, 2022, , .	3.9	1
2	Berezinskiiâ€“Kosterlitzâ€“Thouless transition â€“ A universal neural network study with benchmarks. Results in Physics, 2022, 33, 105134.	4.1	3
3	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
4	Unpolarized dihadron fragmentation functions in nonlocal chiral quark model. Chinese Journal of Physics, 2021, 71, 248-259.	3.9	0
5	A universal neural network for learning phases. European Physical Journal Plus, 2021, 136, 1.	2.6	10
6	Universal scaling of three-dimensional dimerized quantum antiferromagnets on bipartite lattices. Physical Review B, 2020, 101, .	3.2	1
7	Validity of the Harris criterion for two-dimensional quantum spin systems with quenched disorder. Physical Review B, 2020, 101, .	3.2	2
8	A comprehensive neural networks study of the phase transitions of Potts model. New Journal of Physics, 2020, 22, 063016.	2.9	18
9	Ground-state energy density, susceptibility, and Wilson ratio of a two-dimensional disordered quantum spin system. Physical Review B, 2020, 102, .	3.2	0
10	Machine learning phases and criticalities without using real data for training. Physical Review B, 2020, 102, .	3.2	8
11	Classification for the universal scaling of N^{α} el temperature and staggered magnetization density of three-dimensional dimerized spin- 12 antiferromagnets. Physical Review B, 2018, 97, .	3.2	5
12	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
13	Universal quantum criticality at finite temperature for two-dimensional disordered and clean dimerized spin- 12 antiferromagnets. Physical Review B, 2018, 98, .	3.2	3
14	From the $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:mrow>\langle mml:mi>S\langle /mml:mi>\langle mml:mi>U\langle /mml:mi>\langle mml:mo>\langle /mml:mo>$ 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
15	Universal scaling of N^{α} 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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Real-time simulation of nonequilibrium transport of magnetization in large open quantum spin systems driven by dissipation. <i>Physical Review B</i> , 2015, 92, .	3.2	7
20	Scaling relations of three-dimensional random-exchange quantum antiferromagnets. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	4
21	Holes localized on a Skyrmion in a doped antiferromagnet on the honeycomb lattice: Symmetry analysis. <i>Annals of Physics</i> , 2015, 354, 213-243.	2.8	3
22	Real-time dynamics of open quantum spin systems driven by dissipative processes. <i>Physical Review B</i> , 2015, 92, .	3.2	9
23	Real-time simulation of large open quantum spin systems driven by dissipation. <i>Physical Review B</i> , 2014, 90, .	3.2	7
24	Interfaces, strings, and a soft mode in the square lattice quantum dimer model. <i>Physical Review B</i> , 2014, 90, .	3.2	30
25	Quark-jet contribution to the fragmentation functions for the pion and kaon with the nonlocal interactions. <i>Physical Review D</i> , 2013, 87, .	4.7	6
26	The (2 + 1)-d $U(1)$ quantum link model masquerading as deconfined criticality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P12010.	2.3	42
27	Monte Carlo simulations of an unconventional phase transition for a two-dimensional dimerized quantum Heisenberg model. <i>Physical Review B</i> , 2012, 85, .	3.2	24
28	Symmetry analysis of holes localized on a skyrmion in a doped antiferromagnet. <i>Physical Review B</i> , 2012, 86, .	3.2	10
29	Systematic low-energy effective field theory for magnons and holes in an antiferromagnet on the honeycomb lattice. <i>Physical Review B</i> , 2012, 85, .	3.2	9
30	Kaon thresholds and two-flavor chiral expansions for hyperons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 329-336.	4.1	8
31	Constraint effective potential of the magnetization in the quantum XY model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P06002.	2.3	10
32	Method of calculating the spin-wave velocity of spin-1/2 antiferromagnets with $O(N)$ symmetry in a Monte Carlo simulation. <i>Physical Review B</i> , 2011, 83, .	3.2	18
33	High-precision determination of low-energy effective parameters for a two-dimensional Heisenberg quantum antiferromagnet. <i>Physical Review B</i> , 2011, 83, .	3.2	26
34	Hyperon electromagnetic properties in two-flavor chiral perturbation theory. <i>Physical Review D</i> , 2010, 81, .	4.7	11
35	Monte Carlo determination of the low-energy constants of a spin-1/2 Heisenberg model with spatial anisotropy. <i>Physical Review B</i> , 2009, 80, .	3.2	15
36	The constraint effective potential of the staggered magnetization in an antiferromagnet. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P03021.	2.3	25

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37	Subtlety of determining the critical exponent $\hat{\nu}$ 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
38	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
39	Hyperon axial charges in two-flavor chiral perturbation theory. Physical Review D, 2009, 80, .	4.7	21
40	Flavor twisted boundary conditions and the nucleon vector current. Physical Review D, 2008, 78, .	4.7	14
41	Chiral corrections and the axial charge of the delta. Physical Review D, 2008, 78, .	4.7	21
42	Flavor twisted boundary conditions in the Breit frame. Physical Review D, 2008, 78, .	4.7	7
43	Rotor spectra, berry phases, and monopole fields: From antiferromagnets to QCD. Physical Review D, 2008, 78, .	4.7	11
44	Chiral corrections to hyperon axial form factors. Physical Review D, 2008, 77, .	4.7	16
45	Pion polarizabilities and volume effects in lattice QCD. Physical Review D, 2008, 77, .	4.7	14
46	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
47	Nested Cluster Algorithm for Frustrated Quantum Antiferromagnets. Physical Review Letters, 2008, 100, 247206.	7.8	17
48	Loop-cluster simulation of the zero- and one-hole sectors of the \hat{t}^2 model on the honeycomb lattice. Physical Review B, 2008, 78, .	3.2	17
49	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
50	Current renormalization in finite volume. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 350-357.	4.1	15
51	Phase diagram of two-color lattice QCD in the chiral limit. Physical Review D, 2006, 74, .	4.7	31
52	Extrapolations of lattice meson form factors. Physical Review D, 2006, 74, .	4.7	29
53	Chiral limit of strongly coupled lattice QCD at finite temperatures. Physical Review D, 2003, 68, .	4.7	20