

Yang Qi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,662
citations

236925

25
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-learning Monte Carlo method. Physical Review B, 2017, 95, .	3.2	179
2	Possible Kitaev Quantum Spin Liquid State in 2D Materials with $S=3$. Physical Review Letters, 2020, 124, 087205.	7.8	88
3	Self-learning Monte Carlo method and cumulative update in fermion systems. Physical Review B, 2017, 95, .	3.2	74
4	Effective theory of Fermi pockets in fluctuating antiferromagnets. Physical Review B, 2010, 81, .	3.2	69
5	Dynamics and Transport of the Z_2 Spin Liquid: Application to \hat{P} . Physical Review Letters, 2012, 108, 087204.	7.8	67
6	Fluctuating spin density waves in metals. Physical Review B, 2009, 80, .	3.2	66
7	Global phase diagram for magnetism and lattice distortion of iron-pnictide materials. Physical Review B, 2009, 80, .	3.2	62
8	Self-learning quantum Monte Carlo method in interacting fermion systems. Physical Review B, 2017, 96, .	3.2	61
9	Self-learning Monte Carlo method: Continuous-time algorithm. Physical Review B, 2017, 96, .	3.2	55
10	Monte Carlo Study of Lattice Compact Quantum Electrodynamics with Fermionic Matter: The Parent State of Quantum Phases. Physical Review X, 2019, 9, .	8.9	54
11	Topological states from topological crystals. Science Advances, 2019, 5, eaax2007.	10.3	53
12	DMFT Reveals the Non-Hermitian Topology and Fermi Arcs in Heavy-Fermion Systems. Physical Review Letters, 2020, 125, 227204.	7.8	50
13	Spin Liquid Phases for Spin-1 Systems on the Triangular Lattice. Physical Review Letters, 2012, 108, 087204.	7.8	49
14	Kosterlitz-Thouless melting of magnetic order in the triangular quantum Ising material TmMgGaO ₄ . Nature Communications, 2020, 11, 11111.	12.8	46
15	Exactly solvable models for symmetry-enriched topological phases. Physical Review B, 2017, 96, .	3.2	42
16	Experimental observables near a nematic quantum critical point in the pnictide and cuprate superconductors. Physical Review B, 2008, 78, .	3.2	38
17	Evidence of the Berezinskii-Kosterlitz-Thouless phase in a frustrated magnet. Nature Communications, 2020, 11, 5631.	12.8	38
18	Dynamical Signature of Symmetry Fractionalization in Frustrated Magnets. Physical Review Letters, 2018, 121, 077201.	7.8	36

#	ARTICLE	IF	CITATIONS
19	Detecting crystal symmetry fractionalization from the ground state: Application to Z ₂ spin liquids on the kagome lattice. <i>Physical Review B</i> , 2015, 91, .	3.2	35
20	Anomalous Crystal Symmetry Fractionalization on the Surface of Topological Crystalline Insulators. <i>Physical Review Letters</i> , 2015, 115, 236801.	7.8	33
21	Itinerant quantum critical point with frustration and a non-Fermi liquid. <i>Physical Review B</i> , 2018, 98, .	3.2	33
22	Real-space recipes for general topological crystalline states. <i>Nature Communications</i> , 2020, 11, 4197.	12.8	32
23	Insulator-metal transition on the triangular lattice. <i>Physical Review B</i> , 2008, 77, .	3.2	30
24	Revealing fermionic quantum criticality from new Monte Carlo techniques. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 463001.	1.8	30
25	Strong correlation induced charge localization in antiferromagnets. <i>Scientific Reports</i> , 2013, 3, 2586.	3.3	28
26	Caution on emergent continuous symmetry: A Monte Carlo investigation of the transverse-field frustrated Ising model on the triangular and honeycomb lattices. <i>Physical Review B</i> , 2017, 96, .	3.2	25
27	Topological phase transition and single/multi anyon dynamics of Z ₂ spin liquid. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	25
28	Universal thermodynamics in the Kitaev fractional liquid. <i>Physical Review Research</i> , 2020, 2, .	3.6	19
29	Superconductivity from a confinement transition out of a fractionalized Fermi liquid with \mathbb{Z}_2 topological and Ising-nematic orders. <i>Physical Review B</i> , 2016, 94, .	3.2	16
30	Elective-momentum ultrasize quantum Monte Carlo method. <i>Physical Review B</i> , 2019, 99, .	3.2	16
31	Construction and classification of point-group symmetry-protected topological phases in two-dimensional interacting fermionic systems. <i>Physical Review B</i> , 2020, 101, .	3.2	15
32	Continuous phase transition from Néel state to \mathbb{Z}_2 topological state on a square lattice. <i>Physical Review B</i> , 2014, 89, .	3.2	15
33	Charge modulation as fingerprints of phase-string triggered interference. <i>Physical Review B</i> , 2015, 92, .	3.2	14
34	Metal to Orthogonal Metal Transition*. <i>Chinese Physics Letters</i> , 2020, 37, 047103.	3.3	14
35	Phase diagram of the quantum Ising model on a triangular lattice under external field. <i>Physical Review B</i> , 2021, 103, .	3.2	14
36	Double-semion topological order from exactly solvable quantum dimer models. <i>Physical Review B</i> , 2015, 92, .	3.2	13

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37	Classification of symmetry fractionalization in gapped \mathbb{Z}_2 spin liquids. Physical Review B, 2018, 97, .	3.2	13
38	Tuning Topological Orders by a Conical Magnetic Field in the Kitaev Model. Physical Review Letters, 2020, 125, 177203.	7.8	12
39	Vestigial anyon condensation in kagome quantum spin liquids. Physical Review B, 2021, 103, .	3.2	12
40	Quantum phase transitions beyond the Landau paradigm in a $Sp(4)$ spin system. Physical Review B, 2008, 78, .	3.2	11
41	Single-hole wave function in two dimensions: A case study of the doped Mott insulator. Physical Review B, 2019, 99, .	3.2	11
42	Fermi arcs and pseudogap in a lattice model of a doped orthogonal metal. Physical Review B, 2021, 103, .	3.2	10
43	Anomalous Symmetry Protected Topological States in Interacting Fermion Systems. Physical Review Letters, 2019, 123, 207003.	7.8	9
44	Nonlocal Effects of Low-Energy Excitations in Quantum-Spin-Liquid Candidate $Cu_3Zn(OH)_6FBr$. Chinese Physics Letters, 2021, 38, 097501.	3.3	9
45	Folding approach to topological order enriched by mirror symmetry. Physical Review B, 2019, 99, .	3.2	7
46	Prediction of high Curie-temperature intrinsic ferromagnetic semiconductors and quantum anomalous Hall states in XBr_3 ($X = Cu, Ag, Au$) monolayers. Journal of Materials Chemistry C, 2022, 10, 6497-6507.	5.5	7
47	Generalized Lieb-Schultz-Mattis theorem on bosonic symmetry protected topological phases. SciPost Physics, 2021, 11, .	4.9	6
48	Coexistence of antiferromagnetism and topological superconductivity on the honeycomb lattice Hubbard model. Physical Review B, 2020, 102, .	3.2	6
49	Evidence for the random singlet phase in the honeycomb iridate $SrIr_2O_6$. Physical Review B, 2021, 103, .	3.2	5
50	Computing Classification of Interacting Fermionic Symmetry-Protected Topological Phases Using Topological Invariants*. Chinese Physics Letters, 2021, 38, 127101.	3.3	4
51	Network-Initialized Monte Carlo Based on Generative Neural Networks. Chinese Physics Letters, 2022, 39, 050701.	3.3	4
52	Loops, sign structures, and emergent Fermi statistics in three-dimensional quantum dimer models. Physical Review B, 2014, 89, .	3.2	3