

Wei Li

List of Publications by Year in descending order

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36
papers

890
citations

394286

19
h-index

454834

30
g-index

36
all docs

36
docs citations

36
times ranked

651
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting confined and deconfined spinons in dynamical quantum simulations. Physical Review Research, 2022, 4, .	1.3	1
2	Exciton Proliferation and Fate of the Topological Mott Insulator in a Twisted Bilayer Graphene Lattice Model. Physical Review Letters, 2022, 128, 157201.	2.9	19
3	Quantum many-body simulations of the two-dimensional Fermi-Hubbard model in ultracold optical lattices. Physical Review B, 2021, 103, .	1.1	19
4	Phase diagram of the quantum Ising model on a triangular lattice under external field. Physical Review B, 2021, 103, .	1.1	14
5	Spin dynamics and Griffiths singularity in the random quantum Ising magnet PrTiNbO ₆ . Npj Quantum Materials, 2021, 6, .	1.8	4
6	Identification of magnetic interactions and high-field quantum spin liquid in $\hat{I}\pm$ -RuCl ₃ . Nature Communications, 2021, 12, 4007.	5.8	28
7	Symmetry-Protected Topological Edge Modes and Emergent Partial Time-Reversal Symmetry Breaking in Open Quantum Many-Body Systems. Physical Review Letters, 2021, 126, 237201.	2.9	9
8	Significant inverse magnetocaloric effect induced by quantum criticality. Physical Review Research, 2021, 3, .	1.3	7
9	Kondo Holes in the Two-Dimensional Itinerant Ising Ferromagnet Fe ₃ GeTe ₂ . Nano Letters, 2021, 21, 6117-6123.	4.5	23
10	Realization of topological Mott insulator in a twisted bilayer graphene lattice model. Nature Communications, 2021, 12, 5480.	5.8	50
11	Learning the Effective Spin Hamiltonian of a Quantum Magnet. Chinese Physics Letters, 2021, 38, 097502.	1.3	7
12	Evidence of the Berezinskii-Kosterlitz-Thouless phase in a frustrated magnet. Nature Communications, 2020, 11, 5631.	5.8	38
13	Noise-Driven Universal Dynamics towards an Infinite Temperature State. Physical Review Letters, 2020, 124, 130602.	2.9	13
14	Automatic differentiation for second renormalization of tensor networks. Physical Review B, 2020, 101, .	1.1	22
15	Kosterlitz-Thouless melting of magnetic order in the triangular quantum Ising material TmMgGaO ₄ . Nature Communications, 2020, 11, 1111.	5.8	46
16	Universal thermodynamics in the Kitaev fractional liquid. Physical Review Research, 2020, 2, .	1.3	19
17	Thermal tensor renormalization group simulations of square-lattice quantum spin models. Physical Review B, 2019, 100, .	1.1	24
18	Thermal tensor network simulations of the Heisenberg model on the Bethe lattice. Physical Review B, 2019, 100, .	1.1	6

#	ARTICLE	IF	CITATIONS
19	Two-temperature scales in the triangular-lattice Heisenberg antiferromagnet. Physical Review B, 2019, 99, .	1.1	44
20	Exponential Thermal Tensor Network Approach for Quantum Lattice Models. Physical Review X, 2018, 8, .	2.8	48
21	Topological and geometric universal thermodynamics in conformal field theory. Physical Review B, 2018, 97, .	1.1	4
22	Bilayer linearized tensor renormalization group approach for thermal tensor networks. Physical Review B, 2017, 95, .	1.1	13
23	Universal boundary entropies in conformal field theory: A quantum Monte Carlo study. Physical Review B, 2017, 96, .	1.1	14
24	Conformal thermal tensor network and universal entropy on topological manifolds. Physical Review B, 2017, 96, .	1.1	11
25	Series-expansion thermal tensor network approach for quantum lattice models. Physical Review B, 2017, 95, .	1.1	27
26	Spin-ordered ground state and thermodynamic behaviors of the spin-32kagome Heisenberg antiferromagnet. Physical Review E, 2016, 94, 032114.	0.8	15
27	Simplex valence-bond crystal in the spin-1 kagome Heisenberg antiferromagnet. Physical Review B, 2015, 91, .	1.1	41
28	Hexagon-singlet solid ansatz for the spin-1 kagome antiferromagnet. Physical Review B, 2015, 91, .	1.1	14
29	Criticality in translation-invariant parafermion chains. Physical Review B, 2015, 91, .	1.1	32
30	Featureless quantum spin liquid, 1/3-magnetization plateau state, and exotic thermodynamic properties of the spin-1/2 frustrated Heisenberg antiferromagnet on an infinite Husimi lattice. Physical Review B, 2014, 89, .	1.1	16
31	Topology and criticality in the resonating Affleck-Kennedy-Lieb-Tasaki loop spin liquid states. Physical Review B, 2014, 89, .	1.1	32
32	Efficient simulation of infinite tree tensor network states on the Bethe lattice. Physical Review B, 2012, 86, .	1.1	55
33	Phase diagrams, distinct conformal anomalies, and thermodynamics of spin-1 bond-alternating Heisenberg antiferromagnetic chain in magnetic fields. Physical Review B, 2012, 85, .	1.1	22
34	Optimized decimation of tensor networks with super-orthogonalization for two-dimensional quantum lattice models. Physical Review B, 2012, 86, .	1.1	51
35	Linearized Tensor Renormalization Group Algorithm for the Calculation of Thermodynamic Properties of Quantum Lattice Models. Physical Review Letters, 2011, 106, 127202.	2.9	71
36	Quantum phase transition, $O < \frac{3}{2} >$ class, and phase diagram of the spin-1/2 frustrated Heisenberg antiferromagnet on an infinite Husimi lattice. Physical Review B, 2010, 81, .	1.1	31