

Xiaoqun Wang

List of Publications by Year in descending order

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docs citations

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times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	Rare-Earth Triangular Lattice Spin Liquid: A Single-Crystal Study of YbMgGaO . Physical Review Letters, 2015, 115, 167203.	7.8	243
2	Transfer-matrix density-matrix renormalization-group theory for thermodynamics of one-dimensional quantum systems. Physical Review B, 1997, 56, 5061-5064.	3.2	239
3	Multistep Approach to Microscopic Models for Frustrated Quantum Magnets: The Case of the Natural Mineral Azurite. Physical Review Letters, 2011, 106, 217201.	7.8	109
4	Anisotropic spin model of strong spin-orbit-coupled triangular antiferromagnets. Physical Review B, 2016, 94, .	3.2	108
5	High-Performance and Low-Cost Sodium-Ion Anode Based on a Facile Black Phosphorus-Carbon Nanocomposite. ChemElectroChem, 2017, 4, 2140-2144.	3.4	94
6	Magnetic-Field Effects on Two-Leg Heisenberg Antiferromagnetic Ladders: Thermodynamic Properties. Physical Review Letters, 2000, 84, 5399-5402.	7.8	78
7	Effects of the Dzyaloshinskii-Moriya Interaction on Low-Energy Magnetic Excitations in Copper Benzoate. Physical Review Letters, 2003, 90, 207204.	7.8	69
8	Interplay of Dirac electrons and magnetism in CaMnBi_2 and SrMnBi_2 . Nature Communications, 2016, 7, 13833.	12.8	61
9	Field-induced quantum spin disordered state in spin-1/2 honeycomb magnet $\text{Na}_2\text{Co}_2\text{TeO}_6$. Nature Communications, 2021, 12, 5559.	12.8	57
10	Accurate determination of the Gaussian transition in spin-1 chains with single-ion anisotropy. Physical Review B, 2011, 84, .	3.2	54
11	Ultralow-Frequency Collective Compression Mode and Strong Interlayer Coupling in Multilayer Black Phosphorus. Physical Review Letters, 2016, 116, 087401.	7.8	51
12	Designer spin order in diradical nanographenes. Nature Communications, 2020, 11, 6076.	12.8	47
13	Bethe-Slater-curve-like behavior and interlayer spin-exchange coupling mechanisms in two-dimensional magnetic bilayers. Physical Review B, 2020, 102, .	3.2	46
14	LOW ENERGY PROPERTIES OF A FRUSTRATED ANTIFERROMAGNETIC SPIN-1/2 LADDER. Modern Physics Letters B, 2000, 14, 327-335.	1.9	45
15	Ground-state phase diagram of an anisotropic spin-1 on the triangular lattice. Physical Review B, 2017, 95, .	3.2	43
16	Quantum spin ice on the breathing pyrochlore lattice. Physical Review B, 2016, 94, .	3.2	38
17	Impurity state in the Haldane gap for an $S=1$ Heisenberg antiferromagnetic chain with bond doping. Physical Review B, 1996, 53, R492-R495.	3.2	34
18	Semiclassical ground-state phase diagram and multi- \mathbb{Z}_2 of a spin-orbit-coupled model on triangular lattice. Physical Review B, 2016, 94, .	3.2	30

#	ARTICLE	IF	CITATIONS
19	Hidden multipolar orders of dipole-octupole doublets on a triangular lattice. Physical Review B, 2016, 94, .	3.2	33
20	The electrochemical performance of super P carbon black in reversible Li/Na ion uptake. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	32
21	Crystalline electric field excitations in the quantum spin liquid candidate NaYbSe_2 . Physical Review B, 2021, 103, .	3.2	17
22	Haldane gap for the $S=2$ antiferromagnetic Heisenberg chain revisited. Physical Review B, 1999, 60, 14529-14532.	3.2	30
23	Giant magneto-optical Raman effect in a layered transition metal compound. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2349-2353.	7.1	24
24	Midgap States in Antiferromagnetic Heisenberg Chains with a Staggered Field. Physical Review Letters, 2005, 94, 217207.	7.8	22
25	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO_3 . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20322-20327.	7.1	21
26	Kondo Signatures of a Quantum Magnetic Impurity in Topological Superconductors. Physical Review Letters, 2019, 122, 087001.	7.8	20
27	Ferromagnetism in a two-component Bose-Hubbard model with synthetic spin-orbit coupling. Physical Review A, 2014, 89, .	2.5	19
28	Fidelity susceptibility of the anisotropic XY model: The exact solution. Physical Review E, 2018, 98, 022106.	2.1	19
29	Topological phase transition between distinct Weyl semimetal states in MoTe_2 . Physical Review B, 2019, 100, .	3.2	19
30	Evolution of magnetic structure driven by synthetic spin-orbit coupling in a two-component Bose-Hubbard model. Physical Review B, 2014, 90, .	3.2	18
31	Generic spiral spin liquids. Frontiers of Physics, 2021, 16, 1.	5.0	18
32	Effective magnetic Hamiltonian at finite temperatures for rare-earth chalcogenides. Physical Review B, 2021, 103, .	3.2	18
33	Unveiling the phase diagram of a bond-alternating spin- $\frac{1}{2}$ chain. Physical Review B, 2021, 103, .	3.2	17
34	Gapless quantum spin liquid in a honeycomb \hat{I}^c magnet. Npj Quantum Materials, 2021, 6, .	5.2	17
35	Universality class of integer quantum spin chains: $S=2$ case study. Physical Review B, 1997, 56, R14251-R14254.	3.2	16
36	Nuclear Spin Relaxation Rates in Two-Leg Spin Ladders. Physical Review Letters, 2000, 84, 1320-1323.	7.8	15

#	ARTICLE	IF	CITATIONS
37	Low-energy properties of spin-1/2 two-leg antiferromagnetic Heisenberg ladders with ferromagnetic diagonal coupling. <i>Physical Review B</i> , 2000, 63, .	3.2	14
38	Entanglement and correlations in a one-dimensional quantum spin- $\frac{1}{2}$ Heisenberg chain with anisotropic power-law long-range interactions. <i>Physical Review B</i> , 2020, 101, .	3.2	11
39	Noise-Driven Universal Dynamics towards an Infinite Temperature State. <i>Physical Review Letters</i> , 2020, 124, 130602.	7.8	13
40	Intrinsic jump character of first-order quantum phase transitions. <i>Physical Review B</i> , 2019, 100, .	3.2	12
41	Catalytic Growth of Ultralong Graphene Nanoribbons on Insulating Substrates. <i>Advanced Materials</i> , 2022, 34, e2200956.	21.0	12
42	Insulating Charge Density Wave for a Half-Filled $SU(N)$ Hubbard Model with an Attractive On-Site Interaction in One Dimension. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 114711.	1.6	11
43	Low-energy properties of anisotropic two-dimensional spin- $\frac{1}{2}$ Heisenberg models in staggered magnetic fields. <i>Physical Review B</i> , 2011, 84, .	3.2	11
44	Ground-state phase diagram of a spin-12 frustrated three-leg antiferromagnetic Heisenberg ladder. <i>Physical Review B</i> , 2002, 66, .	3.2	10
45	Ground-state phase diagram of the frustrated spin- $\frac{1}{2}$ two-leg honeycomb ladder. <i>Physical Review B</i> , 2018, 97, .	3.2	10
46	Experimental Identification of Electric Dipoles Induced by Magnetic Monopoles in $Tb_2Ti_2O_7$. <i>Physical Review Letters</i> , 2020, 124, 087601.	7.8	9
47	A Kondo Impurity in One-Dimensional Correlated Conduction Electrons. <i>Modern Physics Letters B</i> , 1998, 12, 667-675.	1.9	8
48	Probing the direct factor for superconductivity in FeSe-Based Superconductors by Raman Scattering. <i>Physical Review B</i> , 2019, 100, .	3.2	8
49	Field-induced midgap edge excitations in quantum spin chains. <i>Physical Review B</i> , 2006, 73, .	3.2	6
50	Spin transport properties in Heisenberg antiferromagnetic spin chains: Spin current induced by twisted boundary magnetic fields. <i>Physical Review B</i> , 2006, 73, .	3.2	6
51	Antiferromagnetic Heisenberg ladders in staggered magnetic field. <i>Physical Review B</i> , 2006, 73, .	3.2	6
52	Thermodynamics of a spin- $\frac{1}{2}$ Heisenberg chain with a Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2017, 95, .	3.2	4
53	Clusterization transition between cluster Mott insulators on a breathing kagome lattice. <i>Physical Review Research</i> , 2020, 2, .	3.6	4
54	Quantized squeezing and even-odd asymmetry of trapped bosons. <i>Physical Review A</i> , 2009, 80, .	2.5	2

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55	Electronic Transport Through Graphene Nanoribbons with Stone-Wales Reconstruction at Edges and Interfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8083-8089.	0.9	2
56	Haldane phase, impurity effects and spin ladders. , 1999, , 221-230.		1
57	Spin-wave approach to the two-magnon Raman scattering in antiferromagnetic Heisenberg model. <i>Physical Review B</i> , 2017, 95, .	3.2	1
58	Electron quasi-itinerancy intertwined with quantum order by disorder in pyrochlore iridate magnetism. <i>Physical Review Research</i> , 2020, 2, .	3.6	0