

Xiaoqun Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Catalytic Growth of Ultralong Graphene Nanoribbons on Insulating Substrates. <i>Advanced Materials</i> , 2022, 34, e2200956.	21.0	12
2	Crystalline electric field excitations in the quantum spin liquid candidate NaYbSe_2 . <i>Physical Review B</i> , 2021, 103, .	3.2	17
3	Unveiling the phase diagram of a bond-alternating spin- $\frac{1}{2}$ chain. <i>Physical Review B</i> , 2021, 103, .	3.2	17
4	Generic spiral spin liquids. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	18
5	Effective magnetic Hamiltonian at finite temperatures for rare-earth chalcogenides. <i>Physical Review B</i> , 2021, 103, .	3.2	18
6	Gapless quantum spin liquid in a honeycomb $\hat{\Gamma}^4$ magnet. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	17
7	Field-induced quantum spin disordered state in spin-1/2 honeycomb magnet $\text{Na}_2\text{Co}_2\text{TeO}_6$. <i>Nature Communications</i> , 2021, 12, 5559.	12.8	57
8	Designer spin order in diradical nanographenes. <i>Nature Communications</i> , 2020, 11, 6076.	12.8	47
9	Entanglement and correlations in a one-dimensional quantum spin- $\frac{1}{2}$ chain with anisotropic power-law long-range interactions. <i>Physical Review B</i> , 2020, 101, .	3.2	17
10	Noise-Driven Universal Dynamics towards an Infinite Temperature State. <i>Physical Review Letters</i> , 2020, 124, 130602.	7.8	13
11	Experimental Identification of Electric Dipoles Induced by Magnetic Monopoles in $\text{Tb}_2\text{Ti}_2\text{O}_7$. <i>Physical Review Letters</i> , 2020, 124, 087601.	7.8	9
12	Bethe-Slater-curve-like behavior and interlayer spin-exchange coupling mechanisms in two-dimensional magnetic bilayers. <i>Physical Review B</i> , 2020, 102, .	3.2	46
13	Clusterization transition between cluster Mott insulators on a breathing kagome lattice. <i>Physical Review Research</i> , 2020, 2, .	3.6	4
14	Electron quasi-itinerancy intertwined with quantum order by disorder in pyrochlore iridate magnetism. <i>Physical Review Research</i> , 2020, 2, .	3.6	0
15	Probing the direct factor for superconductivity in FeSe-Based Superconductors by Raman Scattering. <i>Physical Review B</i> , 2019, 100, .	3.2	8
16	Intrinsic jump character of first-order quantum phase transitions. <i>Physical Review B</i> , 2019, 100, .	3.2	12
17	Kondo Signatures of a Quantum Magnetic Impurity in Topological Superconductors. <i>Physical Review Letters</i> , 2019, 122, 087001.	7.8	20
18	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO_3 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20322-20327.	7.1	21

#	ARTICLE	IF	CITATIONS
19	Topological phase transition between distinct Weyl semimetal states in MoTe_2 . Physical Review B, 2019, 100, .	3.2	19
20	Ground-state phase diagram of the frustrated spin- $\frac{1}{2}$ two-leg honeycomb ladder. Physical Review B, 2018, 97, .	3.2	10
21	Fidelity susceptibility of the anisotropic XY model: The exact solution. Physical Review E, 2018, 98, 022106.	2.1	19
22	Thermodynamics of a spin- $\frac{1}{2}$ Heisenberg chain with a Dzyaloshinskii-Moriya interaction. Physical Review B, 2017, 95, .	3.2	13
23	High-Performance and Low-Cost Sodium-Ion Anode Based on a Facile Black Phosphorus-Carbon Nanocomposite. ChemElectroChem, 2017, 4, 2140-2144.	3.4	94
24	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
25	Spin-wave approach to the two-magnon Raman scattering in a J ₁ J ₂ antiferromagnetic Heisenberg model. Physical Review B, 2017, 95, .	3.2	1
26	Ground-state phase diagram of an anisotropic spin- $\frac{1}{2}$ on the triangular lattice. Physical Review B, 2017, 95, .	3.2	13
27	Hidden multipolar orders of dipole-octupole doublets on a triangular lattice. Physical Review B, 2016, 94, .	3.2	33
28	Quantum spin ice on the breathing pyrochlore lattice. Physical Review B, 2016, 94, .	3.2	38
29	Interplay of Dirac electrons and magnetism in CaMnBi ₂ and SrMnBi ₂ . Nature Communications, 2016, 7, 13833.	12.8	61
30	Anisotropic spin model of strong spin-orbit-coupled triangular antiferromagnets. Physical Review B, 2016, 94, .	3.2	108
31	Ultralow-Frequency Collective Compression Mode and Strong Interlayer Coupling in Multilayer Black Phosphorus. Physical Review Letters, 2016, 116, 087401.	7.8	51
32	Electronic Transport Through Graphene Nanoribbons with Stone-Wales Reconstruction at Edges and Interfaces. Journal of Nanoscience and Nanotechnology, 2016, 16, 8083-8089.	0.9	2
33	Semiclassical ground-state phase diagram and multi- \times of a spin-orbit-coupled model on triangular lattice. Physical Review B, 2016, 94, .	3.2	10
34	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
35	Rare-Earth Triangular Lattice Spin Liquid: A Single-Crystal Study of YbMgGaO . Physical Review Letters, 2015, 115, 167203.	7.8	243
36	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

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37	Ferromagnetism in a two-component Bose-Hubbard model with synthetic spin-orbit coupling. Physical Review A, 2014, 89, .	2.5	19
38	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
39	Low-energy properties of anisotropic two-dimensional spin- $\frac{1}{2}$ Heisenberg models in staggered magnetic fields. Physical Review B, 2011, 84, .	3.2	11
40	Accurate determination of the Gaussian transition in spin-1 chains with single-ion anisotropy. Physical Review B, 2011, 84, .	3.2	54
41	Quantized squeezing and even-odd asymmetry of trapped bosons. Physical Review A, 2009, 80, .	2.5	2
42	Insulating Charge Density Wave for a Half-Filled $SU(N)$ Hubbard Model with an Attractive On-Site Interaction in One Dimension. Journal of the Physical Society of Japan, 2007, 76, 114711.	1.6	11
43	Field-induced midgap edge excitations in quantum spin chains. Physical Review B, 2006, 73, .	3.2	6
44	Spin transport properties in Heisenberg antiferromagnetic spin chains: Spin current induced by twisted boundary magnetic fields. Physical Review B, 2006, 73, .	3.2	6
45	Antiferromagnetic Heisenberg ladders in staggered magnetic field. Physical Review B, 2006, 73, .	3.2	6
46	Midgap States in Antiferromagnetic Heisenberg Chains with a Staggered Field. Physical Review Letters, 2005, 94, 217207.	7.8	22
47	Effects of the Dzyaloshinskii-Moriya Interaction on Low-Energy Magnetic Excitations in Copper Benzoate. Physical Review Letters, 2003, 90, 207204.	7.8	69
48	Ground-state phase diagram of a spin-1/2 frustrated three-leg antiferromagnetic Heisenberg ladder. Physical Review B, 2002, 66, .	3.2	10
49	LOW ENERGY PROPERTIES OF A FRUSTRATED ANTIFERROMAGNETIC SPIN-1/2 LADDER. Modern Physics Letters B, 2000, 14, 327-335.	1.9	45
50	Nuclear Spin Relaxation Rates in Two-Leg Spin Ladders. Physical Review Letters, 2000, 84, 1320-1323.	7.8	15
51	Low-energy properties of spin-1/2 two-leg antiferromagnetic Heisenberg ladders with ferromagnetic diagonal coupling. Physical Review B, 2000, 63, .	3.2	14
52	Magnetic-Field Effects on Two-Leg Heisenberg Antiferromagnetic Ladders: Thermodynamic Properties. Physical Review Letters, 2000, 84, 5399-5402.	7.8	78
53	Haldane gap for the $S=2$ antiferromagnetic Heisenberg chain revisited. Physical Review B, 1999, 60, 14529-14532.	3.2	30
54	Haldane phase, impurity effects and spin ladders. , 1999, , 221-230.		1

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55	A Kondo Impurity in One-Dimensional Correlated Conduction Electrons. Modern Physics Letters B, 1998, 12, 667-675.	1.9	8
56	Universality class of integer quantum spin chains: $S=2$ case study. Physical Review B, 1997, 56, R14251-R14254.	3.2	16
57	Transfer-matrix density-matrix renormalization-group theory for thermodynamics of one-dimensional quantum systems. Physical Review B, 1997, 56, 5061-5064.	3.2	239
58	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