

Congjun Wu

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

5,970
citations

70961

41
h-index

71532

76
g-index

97
all docs

97
docs citations

97
times ranked

4200
citing authors

#	ARTICLE	IF	CITATIONS
19	Quantum anomalous Hall effect with cold atoms trapped in a square lattice. Physical Review A, 2010, 81, .	1.0	100
20	Magnetic phases of bosons with synthetic spin-orbit coupling in optical lattices. Physical Review A, 2012, 85, .	1.0	89
21	Two-band model for magnetism and superconductivity in nickelates. Physical Review Research, 2019, 1, .	1.3	88
22	Experimental observation of Bethe strings. Nature, 2018, 554, 219-223.	13.7	84
23	Dynamic Generation of Spin-Orbit Coupling. Physical Review Letters, 2004, 93, 036403.	2.9	78
24	Quantum Stripe Ordering in Optical Lattices. Physical Review Letters, 2006, 97, 190406.	2.9	75
25	Majorana Positivity and the Fermion Sign Problem of Quantum Monte Carlo Simulations. Physical Review Letters, 2016, 116, 250601.	2.9	74
26	Proposed realization of itinerant ferromagnetism in optical lattices. Physical Review A, 2010, 82, .	1.0	66
27	Anisotropic-Fermi-liquid theory of ultracold fermionic polar molecules: Landau parameters and collective modes. Physical Review A, 2010, 81, .	1.0	66
28	Spontaneous inhomogeneous phases in ultracold dipolar Fermi gases. Physical Review B, 2010, 82, .	1.1	65
29	Vortex configurations of bosons in an optical lattice. Physical Review A, 2004, 69, .	1.0	59
30	Resonating plaquette phases in SU(4) Heisenberg antiferromagnet. Physical Review B, 2008, 77, .	1.1	58
31	Room-temperature magnetism on the zigzag edges of phosphorene nanoribbons. Physical Review B, 2016, 94, .	1.1	58
32	Theory of unconventional metamagnetic electron states in orbital band systems. Physical Review B, 2009, 80, .	1.1	57
33	Theoretical paradigm for the quantum spin Hall effect at high temperatures. Physical Review B, 2018, 98, .	1.1	55
34	Mott insulating states and quantum phase transitions of correlated fermions. Physical Review B, 2016, 93, .	1.1	54
35	Quantum anomalous Hall states in the orbital honeycomb optical lattices. Physical Review A, 2011, 83, .	1.0	53
36	Incommensurate Superfluidity of Bosons in a Double-Well Optical Lattice. Physical Review Letters, 2008, 101, 125301.	2.9	51

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37	Competing Orders in the 2D Half-Filled $SU(2) \times U(1)$ Model. Physical Review Letters, 2014, 112, 156403.	1.1	48
38	Exact spontaneous plaquette ground states for high-spin ladder models. Physical Review B, 2005, 72, .	1.1	48
39	Ferromagnetism and Wigner crystallization in kagome graphene and related structures. Physical Review B, 2018, 98, .	1.1	44
40	Stable Fulde-Ferrell-Larkin-Ovchinnikov pairing states in two-dimensional and three-dimensional optical lattices. Physical Review A, 2011, 83, .	1.0	43
41	Quantum magnetic properties of the $SU(2) \times U(1)$ model in the square lattice: A quantum Monte Carlo study. Physical Review B, 2013, 88, .	1.1	41
42	Mixed triplet and singlet pairing in ultracold multicomponent fermion systems with dipolar interactions. Physical Review B, 2010, 81, .	1.1	41
43	Two- and three-dimensional topological insulators with isotropic and parity-breaking Landau levels. Physical Review B, 2012, 85, .	1.1	40
44	Pomeranchuk Cooling of $SU(2) \times U(1)$ Fermions: High-Partial-Wave Channel Counterpart of the $SU(2) \times U(1)$ Model. Physical Review Letters, 2013, 110, 220401.	2.9	39
45	Space-Time Crystal and Space-Time Group. Physical Review Letters, 2018, 120, 096401.	2.9	36
46	Topological Septet Pairing with Spin- $3/2$ Fermions: High-Partial-Wave Channel Counterpart of the $SU(2) \times U(1)$ Model. Physical Review Letters, 2013, 110, 220401.	2.9	35
47	Spectroscopic Imaging Scanning Tunneling Microscopy as a Probe of Orbital Structures and Ordering. Physical Review Letters, 2009, 103, 176101.	2.9	35
48	Exact Results for Itinerant Ferromagnetism in Multiorbital Systems on Square and Cubic Lattices. Physical Review Letters, 2014, 112, .	2.9	35
49	Detecting edge degeneracy in interacting topological insulators through entanglement entropy. Physical Review B, 2015, 91, .	1.1	35
50	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. Physical Review B, 2016, 94, .	1.1	35
51	Quantum magnetism in ultracold alkali and alkaline-earth fermion systems with symplectic symmetry. Physical Review B, 2011, 84, .	1.1	33
52	SPIN CURRENT IN SPIN-ORBIT COUPLING SYSTEMS. International Journal of Modern Physics B, 2003, 17, 5991-6000.	1.0	32
53	Complex and real unconventional Bose-Einstein condensations in high orbital bands. Physical Review A, 2011, 84, .	1.0	31
54	Anisotropic vortex lattice structures in the FeSe superconductor. Physical Review B, 2012, 85, .	1.1	31

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55	Majorana surface modes of nodal topological pairings in spin- $\frac{3}{2}$ Dirac semimetals. Physical Review B, 2017, 96, .	1.1	29
56	Current carrying ground state in a bilayer model of strongly correlated systems. Physical Review B, 2004, 70, .	1.1	27
57	Quantum Monte Carlo simulations of thermodynamic properties of SU(2) invariant spin-1 fermions in optical lattices. Physical Review B, 2014, 90, .	1.1	27
58	Strong Correlation Between Superconductivity and Ferromagnetism in an Fe-Chalcogenide Superconductor. Nano Letters, 2021, 21, 7277-7283.	4.5	27
59	Quasiparticle interference in the unconventional metamagnetic compound Sr ₂ VO ₂ P ₂ O ₇ . Physical Review B, 2010, 81, .	1.1	26
60	F -wave pairing of cold atoms in optical lattices. Physical Review A, 2010, 82, .	1.0	25
61	Time-reversal symmetry breaking in the Fe-chalcogenide superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
62	BAND COLLAPSE AND THE QUANTUM HALL EFFECT IN GRAPHENE. International Journal of Modern Physics B, 2006, 20, 3257-3278.	1.0	24
63	Spontaneous breaking of time-reversal symmetry in the orbital channel for the boundary Majorana flat bands. New Journal of Physics, 2013, 15, 085002.	1.2	24
64	QUINTET PAIRING AND NON-ABELIAN VORTEX STRING IN SPIN-3/2 COLD ATOMIC SYSTEMS. International Journal of Modern Physics B, 2010, 24, 311-322.	1.0	23
65	Absence of the zero bias peak in vortex tunneling spectra of high-temperature superconductors. Physical Review B, 2000, 62, 14427-14430.	1.1	22
66	Isotropic Landau levels of Dirac fermions in high dimensions. Physical Review B, 2012, 85, .	1.1	21
67	One-dimensional quantum spin dynamics of Bethe string states. Physical Review B, 2019, 100, .	1.1	21
68	Mott transition in the $\tilde{\epsilon}$ -flux Hubbard model on a square lattice. Physical Review B, 2018, 97, .	1.1	20
69	Mott made easy. Nature Physics, 2012, 8, 784-785.	6.5	19
70	Exotic phases of interacting p -band bosons. Physical Review B, 2013, 87, .	1.1	19
71	Three-dimensional quaternionic condensations, Hopf invariants, and skyrmion lattices with synthetic spin-orbit coupling. Physical Review A, 2016, 93, .	1.0	18
72	Pairing symmetry and topological surface state in iron-chalcogenide superconductors. Physical Review Research, 2020, 2, .	1.3	17

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73	Frustrated Cooper pairing and f -wave supersolidity in cold-atom optical lattices. Physical Review B, 2011, 83, .	1.1	16
74	Moiré pattern of interference dislocations in condensate of indirect excitons. Nature Communications, 2021, 12, 1175.	5.8	16
75	Non-Abelian Berry phase and Chern numbers in higher spin-pairing condensates. Physical Review B, 2004, 69, .	1.1	15
76	Spin-Orbit Coupling-Induced Magnetic Phase in the Density-Wave Phase of $\text{La}_2\text{xBa}_x\text{CuO}_4$ Superconductors. Physical Review Letters, 2005, 95, 247007.	2.9	14
77	Interaction Effects with Varying N in $\text{SU}(N)$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 567 Td (stretchy="false")	2.9	14
78	Finite-temperature valence-bond-solid transitions and thermodynamic properties of interacting fermions. Physical Review B, 2017, 95, .	1.1	13
79	Synthetic Landau Levels and Spinor Vortex Matter on a Haldane Spherical Surface with a Magnetic Monopole. Physical Review Letters, 2018, 120, 130402.	2.9	11
80	Exact ground state and elementary excitations of the spin tetrahedron chain. Physical Review B, 2006, 74, .	1.1	10
81	Phase-sensitive detection for unconventional Bose-Einstein condensation. Physical Review A, 2012, 86, .	1.0	10
82	Sign-Problem-Free Quantum Monte Carlo Study on Thermodynamic Properties and Magnetic Phase Transitions in Orbital-Active Itinerant Ferromagnets. Physical Review X, 2015, 5, .	2.8	10
83	Single branch of chiral Majorana modes from doubly degenerate Fermi surfaces. Physical Review Research, 2020, 2, .	1.3	10
84	Frustrated Bose-Einstein condensates with noncollinear orbital ordering. Physical Review B, 2012, 86, .	1.1	9
85	Interacting topological mirror excitonic insulator in one dimension. Physical Review B, 2020, 102, .	1.1	9
86	Confinement: A real-time visualization. Physical Review B, 2012, 85, .	1.1	8
87	Slater and Mott insulating states in the $\text{SU}(6)$ Hubbard model. Physical Review B, 2019, 100, .	1.1	8
88	In-plane gradient-magnetic-field-induced vortex lattices in spin-orbit-coupled Bose-Einstein condensations. Physical Review A, 2015, 91, .	1.0	7
89	Quantum criticality of bosonic systems with the Lifshitz dispersion. Physical Review B, 2017, 96, .	1.1	7
90	Two-orbital model for possible superconductivity pairing mechanism in nickelates. Physical Review B, 2022, 105, .	1.1	7

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91	Unconventional Bose-Einstein condensation in a system with two species of bosons in the p -orbital bands in an optical lattice. Physical Review A, 2016, 93, .	1.0	4
92	Four-Coloring Model and Frustrated Superfluidity in the Diamond Lattice. Physical Review Letters, 2014, 112, 020601.	2.9	3
93	Microscopic Theory of the Thermodynamic Properties of $\text{Sr}_3\text{Ru}_2\text{O}_7$. Chinese Physics Letters, 2016, 33, 037201.	1.3	3
94	ELECTRONIC AND STRUCTURAL PROPERTIES OF C ₃₆ MOLECULE. International Journal of Modern Physics B, 1999, 13, 1513-1523.	1.0	2
95	Quantum critical dynamics for a prototype class of insulating antiferromagnets. Physical Review B, 2018, 97, .	1.1	0
96	Quaternion, Harmonic Oscillator, and High-Dimensional Topological States. , 2021, , 61-102.		0
97	Emergent Weyl fermions in an orbital multipolar ordered phase. Physical Review B, 2022, 105, .	1.1	0