

Yuxuan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,666
citations

279778

23
h-index

276858

41
g-index

44
all docs

44
docs citations

44
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical exponent of a quantum critical itinerant ferromagnet: A Monte Carlo study. Physical Review B, 2022, 105, .	3.2	8
2	Higher-order topological superconductors from Weyl semimetals. SciPost Physics, 2022, 12, .	4.9	11
3	Monte Carlo study of the pseudogap and superconductivity emerging from quantum magnetic fluctuations. Nature Communications, 2022, 13, 2655.	12.8	13
4	SU(4) Symmetry in Twisted Bilayer Graphene: An Itinerant Perspective. Physical Review Letters, 2022, 128, .	7.8	11
5	Topological and nematic superconductivity mediated by ferro-SU(4) fluctuations in twisted bilayer graphene. Physical Review B, 2021, 103, .	3.2	34
6	Yukawa-SYK model and self-tuned quantum criticality. Physical Review Research, 2021, 3, .	3.6	18
7	Phase diagram of the spin- $\frac{1}{2} \times \frac{2}{3}$ Yukawa Sachdev-Ye-Kitaev model: Non-Fermi liquid, insulator, and superconductor. Physical Review B, 2021, 103, .	3.2	17
8	Symmetry-protected gates of Majorana qubits in a high- T_c higher-order topological superconductor platform. SciPost Physics, 2021, 11, .	4.9	6
9	The interplay between superconductivity and non-Fermi liquid at a quantum critical point in a metal. II. The model at a finite T for $\nu = 3$. Physical Review B, 2020, 102, .	3.2	25
10	The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond. Annual Review of Condensed Matter Physics, 2020, 11, 231-270.	14.5	209
11	The interplay between superconductivity and non-Fermi liquid at a quantum-critical point in a metal. Annals of Physics, 2020, 417, 168142.	2.8	20
12	Solvable Strong-Coupling Quantum-Dot Model with a Non-Fermi-Liquid Pairing Transition. Physical Review Letters, 2020, 124, 017002.	7.8	46
13	Quantum phase transition in the Yukawa-SYK model. Physical Review Research, 2020, 2, .	3.6	27
14	Chiral Dirac superconductors: Second-order and boundary-obstructed topology. Physical Review Research, 2020, 2, .	3.6	42
15	Superconductivity above a quantum critical point in a metal: Gap closing versus gap filling, Fermi arcs, and pseudogap behavior. Physical Review B, 2019, 99, .	3.2	16
16	Pair-Density-Wave Order and Paired Fractional Quantum Hall Fluids. Physical Review X, 2019, 9, .	8.9	9
17	Special role of the first Matsubara frequency for superconductivity near a quantum critical point: Nonlinear gap equation below T_c and spectral properties in real frequencies. Physical Review B, 2019, 99, .	3.2	23
18	Superconductivity versus quantum criticality: Effects of thermal fluctuations. Physical Review B, 2018, 97, .	3.2	15

#	ARTICLE	IF	CITATIONS
19	Entanglement evolution across a conformal interface. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 195004.	2.1	12
20	Topological crystalline superconductivity and second-order topological superconductivity in nodal-loop materials. Physical Review B, 2018, 97, .	3.2	81
21	Weak-pairing higher order topological superconductors. Physical Review B, 2018, 98, .	3.2	152
22	Pair density waves in superconducting vortex halos. Physical Review B, 2018, 97, .	3.2	41
23	Fragility of Charge Order Near an Antiferromagnetic Quantum Critical Point. Physical Review Letters, 2018, 120, 247002.	7.8	20
24	Topological surface superconductivity in doped Weyl loop materials. Physical Review B, 2017, 95, .	3.2	47
25	Quasiparticle interference and strong electron-phonon mode coupling in the quasi-one-dimensional bands of Sr ₂ RuO ₄ . Nature Physics, 2017, 13, 799-805.	16.7	33
26	Interplay between short-range correlated disorder and Coulomb interaction in nodal-line semimetals. Physical Review B, 2017, 96, .	3.2	23
27	Low-energy inelastic response in the superconducting phases of $\text{PrOs}_4\text{Sb}_{12}$. Physical Review B, 2017, 96, .	3.2	2
28	Electromagnetic Response of Three-Dimensional Topological Crystalline Insulators. Physical Review Letters, 2017, 118, 146602.	7.8	7
29	Higgs modes in the pair density wave superconducting state. Physical Review B, 2017, 95, .	3.2	12
30	Topological Phase Transitions in Multicomponent Superconductors. Physical Review Letters, 2017, 119, 187003.	7.8	38
31	Superconductivity near a Quantum-Critical Point: The Special Role of the First Matsubara Frequency. Physical Review Letters, 2016, 117, 157001.	7.8	62
32	Topological density-wave states in a particle-hole symmetric Weyl metal. Physical Review B, 2016, 94, .	3.2	26
33	Topological superconducting phases from inversion symmetry breaking order in spin-orbit-coupled systems. Physical Review B, 2016, 93, .	3.2	44
34	Enhancement of superconductivity at the onset of charge-density-wave order in a metal. Physical Review B, 2015, 92, .	3.2	34
35	Fluctuating charge order in the cuprates: Spatial anisotropy and feedback from superconductivity. Physical Review B, 2015, 92, .	3.2	4
36	Interplay between unidirectional and bidirectional charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 92, .	3.2	8

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37	Superconducting and charge-density-wave orders in the spin-fermion model: A comparative analysis. Physical Review B, 2015, 91, .	3.2	14
38	Coexistence of Charge-Density-Wave and Pair-Density-Wave Orders in Underdoped Cuprates. Physical Review Letters, 2015, 114, 197001.	7.8	94
39	Interplay between pair- and charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 91, .	3.2	61
40	Polar Kerr effect from chiral-nematic charge order. Physical Review B, 2014, 90, .	3.2	20
41	Charge-density-wave order with momentum Q and $2Q$ within the spin-fermion model: Continuous and discrete symmetry breaking. Physical Review B, 2014, 90, .	3.2	189
42	Superconductivity at the Onset of Spin-Density-Wave Order in a Metal. Physical Review Letters, 2013, 110, 127001.	7.8	33
43	Quantum-critical pairing in electron-doped cuprates. Physical Review B, 2013, 88, .	3.2	29
44	RESIDUAL ENERGY IN MAGNETOHYDRODYNAMIC TURBULENCE. Astrophysical Journal Letters, 2011, 740, L36.	8.3	30