

# Yuxuan Wang

## List of Publications by Year in descending order

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44  
papers

1,666  
citations

279798

23  
h-index

276875

41  
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44  
all docs

44  
docs citations

44  
times ranked

1476  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond. Annual Review of Condensed Matter Physics, 2020, 11, 231-270.	14.5	209
2	Charge-density-wave order with momentum $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mn} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle, \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ within the spin-fermion model: Continuous and discrete symmetry brea. Physical Review B, 2014, 90, .	3.2	189
3	Weak-pairing higher order topological superconductors. Physical Review B, 2018, 98, .	3.2	152
4	Coexistence of Charge-Density-Wave and Pair-Density-Wave Orders in Underdoped Cuprates. Physical Review Letters, 2015, 114, 197001.	7.8	94
5	Topological crystalline superconductivity and second-order topological superconductivity in nodal-loop materials. Physical Review B, 2018, 97, .	3.2	81
6	Superconductivity near a Quantum-Critical Point: The Special Role of the First Matsubara Frequency. Physical Review Letters, 2016, 117, 157001.	7.8	62
7	Interplay between pair- and charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 91, .	3.2	61
8	Topological surface superconductivity in doped Weyl loop materials. Physical Review B, 2017, 95, .	3.2	47
9	Solvable Strong-Coupling Quantum-Dot Model with a Non-Fermi-Liquid Pairing Transition. Physical Review Letters, 2020, 124, 017002.	7.8	46
10	Topological superconducting phases from inversion symmetry breaking order in spin-orbit-coupled systems. Physical Review B, 2016, 93, .	3.2	44
11	Chiral Dirac superconductors: Second-order and boundary-obstructed topology. Physical Review Research, 2020, 2, .	3.6	42
12	Pair density waves in superconducting vortex halos. Physical Review B, 2018, 97, .	3.2	41
13	Topological Phase Transitions in Multicomponent Superconductors. Physical Review Letters, 2017, 119, 187003.	7.8	38
14	Enhancement of superconductivity at the onset of charge-density-wave order in a metal. Physical Review B, 2015, 92, .	3.2	34
15	Topological and nematic superconductivity mediated by ferro-SU(4) fluctuations in twisted bilayer graphene. Physical Review B, 2021, 103, .	3.2	34
16	Superconductivity at the Onset of Spin-Density-Wave Order in a Metal. Physical Review Letters, 2013, 110, 127001.	7.8	33
17	Quasiparticle interference and strong electron-phonon mode coupling in the quasi-one-dimensional bands of Sr <sub>2</sub> RuO <sub>4</sub> . Nature Physics, 2017, 13, 799-805.	16.7	33
18	RESIDUAL ENERGY IN MAGNETOHYDRODYNAMIC TURBULENCE. Astrophysical Journal Letters, 2011, 740, L36.	8.3	30

#	ARTICLE	IF	CITATIONS
19	Quantum-critical pairing in electron-doped cuprates. <i>Physical Review B</i> , 2013, 88, .	3.2	29
20	Quantum phase transition in the Yukawa-SYK model. <i>Physical Review Research</i> , 2020, 2, .	3.6	27
21	Topological density-wave states in a particle-hole symmetric Weyl metal. <i>Physical Review B</i> , 2016, 94, .	3.2	26
22	Interplay between superconductivity and non-Fermi liquid at a quantum critical point in a metal. II. The model at a finite $T$ for $\nu < 1$ . <i>Physical Review B</i> , 2020, 102, .	3.2	25
23	Interplay between short-range correlated disorder and Coulomb interaction in nodal-line semimetals. <i>Physical Review B</i> , 2017, 96, .	3.2	23
24	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. <i>Physical Review B</i> , 2019, 99, .	3.2	23
25	Polar Kerr effect from chiral-nematic charge order. <i>Physical Review B</i> , 2014, 90, .	3.2	20
26	Fragility of Charge Order Near an Antiferromagnetic Quantum Critical Point. <i>Physical Review Letters</i> , 2018, 120, 247002.	7.8	20
27	The interplay between superconductivity and non-Fermi liquid at a quantum-critical point in a metal. <i>Annals of Physics</i> , 2020, 417, 168142.	2.8	20
28	Yukawa-SYK model and self-tuned quantum criticality. <i>Physical Review Research</i> , 2021, 3, .	3.6	18
29	Phase diagram of the spin- $1/2$ Yukawa Sachdev-Ye-Kitaev model: Non-Fermi liquid, insulator, and superconductor. <i>Physical Review B</i> , 2021, 103, .	3.2	17
30	Superconductivity above a quantum critical point in a metal: Gap closing versus gap filling, Fermi arcs, and pseudogap behavior. <i>Physical Review B</i> , 2019, 99, .	3.2	16
31	Superconductivity versus quantum criticality: Effects of thermal fluctuations. <i>Physical Review B</i> , 2018, 97, .	3.2	15
32	Superconducting and charge-density-wave orders in the spin-fermion model: A comparative analysis. <i>Physical Review B</i> , 2015, 91, .	3.2	14
33	Monte Carlo study of the pseudogap and superconductivity emerging from quantum magnetic fluctuations. <i>Nature Communications</i> , 2022, 13, 2655.	12.8	13
34	Higgs modes in the pair density wave superconducting state. <i>Physical Review B</i> , 2017, 95, .	3.2	12
35	Entanglement evolution across a conformal interface. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 195004.	2.1	12
36	Higher-order topological superconductors from Weyl semimetals. <i>SciPost Physics</i> , 2022, 12, .	4.9	11

#	ARTICLE	IF	CITATIONS
37	SU(4) Symmetry in Twisted Bilayer Graphene: An Itinerant Perspective. Physical Review Letters, 2022, 128, .	7.8	11
38	Pair-Density-Wave Order and Paired Fractional Quantum Hall Fluids. Physical Review X, 2019, 9, .	8.9	9
39	Interplay between unidirectional and bidirectional charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 92, .	3.2	8
40	Dynamical exponent of a quantum critical itinerant ferromagnet: A Monte Carlo study. Physical Review B, 2022, 105, .	3.2	8
41	Electromagnetic Response of Three-Dimensional Topological Crystalline Insulators. Physical Review Letters, 2017, 118, 146602.	7.8	7
42	Symmetry-protected gates of Majorana qubits in a high- $T_c$ higher-order topological superconductor platform. SciPost Physics, 2021, 11, .	4.9	6
43	Fluctuating charge order in the cuprates: Spatial anisotropy and feedback from superconductivity. Physical Review B, 2015, 92, .	3.2	4
44	Low-energy inelastic response in the superconducting phases of $\text{PrO}_4\text{Sb}_{12}$ . Physical Review B, 2017, 96, .	3.2	2