

# Cenke Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

2,531  
citations

28  
h-index

49  
g-index

75  
ext. papers

3,022  
ext. citations

5.2  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
72	Construction of Fractal Order and Phase Transition with Rydberg Atoms.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 017601	7.4	1
71	Pascal's Triangle Fractal Symmetries.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 115301	7.4	1
70	Self-duality protected multicriticality in deconfined quantum phase transitions. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
69	Magic continuum in a twisted bilayer square lattice with staggered flux. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
68	Physics of symmetry protected topological phases involving higher symmetries and its applications. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
67	Continuous N <sup>e</sup> -VBS quantum phase transition in non-local one-dimensional systems with SO(3) symmetry. <i>SciPost Physics</i> , <b>2021</b> , 10,	6.1	5
66	Universal features of higher-form symmetries at phase transitions. <i>SciPost Physics</i> , <b>2021</b> , 11,	6.1	4
65	Boundary criticality of topological quantum phase transitions in two-dimensional systems. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
64	Topological edge and interface states at bulk disorder-to-order quantum critical points. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
63	Generic Unnecessary Quantum critical points with minimal degrees of freedom. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
62	Orbital order and possible non-Fermi liquid in moiré systems. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
61	Non-Landau quantum phase transitions and nearly-marginal non-Fermi liquid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2020</b> , 2020, 073102	1.9	1
60	Emergent Fermi Surface in a Triangular-Lattice SU(4) Quantum Antiferromagnet. <i>Physical Review Letters</i> , <b>2020</b> , 125, 117202	7.4	7
59	Enhanced thermal Hall effect in the square-lattice Néel state. <i>Nature Physics</i> , <b>2019</b> , 15, 1290-1294	16.2	16
58	Quantum simulation of the non-fermi-liquid state of Sachdev-Ye-Kitaev model. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	17
57	Monte Carlo Study of Lattice Compact Quantum Electrodynamics with Fermionic Matter: The Parent State of Quantum Phases. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	28
56	Coupled-wire description of the correlated physics in twisted bilayer graphene. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	29

55	Lattice models for non-Fermi liquids with tunable transport scalings. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	7
54	Ferromagnetism and spin-valley liquid states in moiré-correlated insulators. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	23
53	Duality between (2+1)d quantum critical points. <i>Physics Reports</i> , <b>2019</b> , 827, 1-48	27.7	32
52	Interacting valley Chern insulator and its topological imprint on moiré-superconductors. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
51	Symmetric Fermion Mass Generation as Deconfined Quantum Criticality. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	22
50	Lieb-Schultz-Mattis theorem and its generalizations from the perspective of the symmetry-protected topological phase. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	28
49	From bosonic topological transition to symmetric fermion mass generation. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	23
48	Deconfined quantum critical point on the triangular lattice. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
47	Topological Superconductivity in Twisted Multilayer Graphene. <i>Physical Review Letters</i> , <b>2018</b> , 121, 087001.	7.4	242
46	Dynamical signature of fractionalization at a deconfined quantum critical point. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	38
45	Interacting Topological Insulators with Synthetic Dimensions. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	4
44	Candidate theory for the strange metal phase at a finite-energy window. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	18
43	Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. <i>Physical Review Letters</i> , <b>2017</b> , 118, 126801	7.4	12
42	Instability of the non-Fermi-liquid state of the Sachdev-Ye-Kitaev model. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	67
41	Deconfined Quantum Critical Points: Symmetries and Dualities. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	151
40	Model for continuous thermal metal to insulator transition. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	34
39	Duality between the Deconfined Quantum-Critical Point and the Bosonic Topological Transition. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	63
38	Duality and bosonization of (2+1)-dimensional Majorana fermions. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	39

37	Out-of-time-order correlation in marginal many-body localized systems. <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	29
36	Entanglement holographic mapping of many-body localized system by spectrum bifurcation renormalization group. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	44
35	Bona fide interaction-driven topological phase transition in correlated symmetry-protected topological states. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	36
34	Quantum phase transitions between bosonic symmetry-protected topological states without sign problem: Nonlinear sigma model with a topological term. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	23
33	Topological nematic phase in Dirac semimetals. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	12
32	Visualizing a bosonic symmetry protected topological phase in an interacting fermion model. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	12
31	Series of (2+1)-dimensional stable self-dual interacting conformal field theories. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	17
30	Quantum critical point of Dirac fermion mass generation without spontaneous symmetry breaking. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	16
29	Interacting topological phases in thin films of topological mirror Kondo insulators. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	4
28	Bridging fermionic and bosonic short range entangled states. <i>New Journal of Physics</i> , <b>2015</b> , 17, 075010	2-9	26
27	Classification and description of bosonic symmetry protected topological phases with semiclassical nonlinear sigma models. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	67
26	Quantum Monte Carlo study of strange correlator in interacting topological insulators. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	14
25	Self-dual quantum electrodynamics as boundary state of the three-dimensional bosonic topological insulator. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	60
24	Bosonic short-range entangled states beyond group cohomology classification. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	9
23	Wave function and strange correlator of short-range entangled states. <i>Physical Review Letters</i> , <b>2014</b> , 112, 247202	7-4	36
22	Topological number and fermion Green's function for strongly interacting topological superconductors. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	11
21	Symmetry-protected topological states of interacting fermions and bosons. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	81
20	Nonperturbative effects of a topological theta term on principal chiral nonlinear sigma models in 2 + 1 dimensions. <i>Physical Review Letters</i> , <b>2013</b> , 110, 200405	7-4	25

19	Wave functions of bosonic symmetry protected topological phases. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	67
18	Three-dimensional symmetry-protected topological phase close to antiferromagnetic Néel order. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	32
17	Two-dimensional symmetry-protected topological phases with PSU(N) and time-reversal symmetry. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	18
16	Plaquette order and deconfined quantum critical point in the spin-1 bilinear-biquadratic Heisenberg model on the honeycomb lattice. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	48
15	Topological quantum liquids with quaternion non-Abelian statistics. <i>Physical Review Letters</i> , <b>2012</b> , 108, 047202	7.4	5
14	Spin liquid phases for spin-1 systems on the triangular lattice. <i>Physical Review Letters</i> , <b>2012</b> , 108, 087204	7.4	42
13	UNCONVENTIONAL QUANTUM CRITICAL POINTS. <i>International Journal of Modern Physics B</i> , <b>2012</b> , 26, 1230007	1.1	22
12	Quantum phase transitions around the staggered valence-bond solid. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	27
11	Majorana liquids: the complete fractionalization of the electron. <i>Physical Review Letters</i> , <b>2010</b> , 105, 057201	7.4	25
10	Fractionalization in Josephson junction arrays hinged by quantum spin Hall edges. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	43
9	Fluctuating spin density waves in metals. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	59
8	Resonating plaquette phases in SU(4) Heisenberg antiferromagnet. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	45
7	Square-lattice algebraic spin liquid with SO(5) symmetry. <i>Physical Review Letters</i> , <b>2008</b> , 100, 137201	7.4	20
6	Bond algebraic liquid phase in strongly correlated multiflavor cold atom systems. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	44
5	Global phase diagram for the spin-1 antiferromagnet with uniaxial anisotropy on the kagome lattice. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	13
4	Dynamical models and the phase ordering kinetics of the s=1 spinor condensate. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	29
3	Stability of the quantum spin Hall effect: Effects of interactions, disorder, and Z2 topology. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	433
2	Geometric criticality for transitions between plaquette phases in integer-spin kagome XXZ antiferromagnets. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	11

- 1 Strong-weak coupling self-duality in the two-dimensional quantum phase transition of  $p + ip$  superconducting arrays. *Physical Review Letters*, **2004**, 93, 047003

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