

Cenke Xu

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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 | Stability of the quantum spin Hall effect: Effects of interactions, disorder, and Z2 topology. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 433 |
| 71 | Topological Superconductivity in Twisted Multilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 087001. | 7.4 | 242 |
| 70 | Deconfined Quantum Critical Points: Symmetries and Dualities. <i>Physical Review X</i> , 2017 , 7, | 9.1 | 151 |
| 69 | Symmetry-protected topological states of interacting fermions and bosons. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 81 |
| 68 | Instability of the non-Fermi-liquid state of the Sachdev-Ye-Kitaev model. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 67 |
| 67 | Classification and description of bosonic symmetry protected topological phases with semiclassical nonlinear sigma models. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 67 |
| 66 | Wave functions of bosonic symmetry protected topological phases. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 67 |
| 65 | Strong-weak coupling self-duality in the two-dimensional quantum phase transition of p + ip superconducting arrays. <i>Physical Review Letters</i> , 2004 , 93, 047003 | 7.4 | 64 |
| 64 | Duality between the Deconfined Quantum-Critical Point and the Bosonic Topological Transition. <i>Physical Review X</i> , 2017 , 7, | 9.1 | 63 |
| 63 | Self-dual quantum electrodynamics as boundary state of the three-dimensional bosonic topological insulator. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 60 |
| 62 | Fluctuating spin density waves in metals. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 59 |
| 61 | Plaquette order and deconfined quantum critical point in the spin-1 bilinear-biquadratic Heisenberg model on the honeycomb lattice. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 48 |
| 60 | Resonating plaquette phases in SU(4) Heisenberg antiferromagnet. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 45 |
| 59 | Entanglement holographic mapping of many-body localized system by spectrum bifurcation renormalization group. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 44 |
| 58 | Bond algebraic liquid phase in strongly correlated multiflavor cold atom systems. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 44 |
| 57 | Fractionalization in Josephson junction arrays hinged by quantum spin Hall edges. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 43 |
| 56 | Spin liquid phases for spin-1 systems on the triangular lattice. <i>Physical Review Letters</i> , 2012 , 108, 087204. | 7.4 | 42 |

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| 55 | Duality and bosonization of (2+1)-dimensional Majorana fermions. <i>Physical Review B</i> , 2017 , 95, | 3-3 | 39 |
| 54 | Dynamical signature of fractionalization at a deconfined quantum critical point. <i>Physical Review B</i> , 2018 , 98, | 3-3 | 38 |
| 53 | Bona fide interaction-driven topological phase transition in correlated symmetry-protected topological states. <i>Physical Review B</i> , 2016 , 93, | 3-3 | 36 |
| 52 | Wave function and strange correlator of short-range entangled states. <i>Physical Review Letters</i> , 2014 , 112, 247202 | 7-4 | 36 |
| 51 | Model for continuous thermal metal to insulator transition. <i>Physical Review B</i> , 2017 , 96, | 3-3 | 34 |
| 50 | Duality between (2+1)d quantum critical points. <i>Physics Reports</i> , 2019 , 827, 1-48 | 27-7 | 32 |
| 49 | Three-dimensional symmetry-protected topological phase close to antiferromagnetic Néel order. <i>Physical Review B</i> , 2013 , 87, | 3-3 | 32 |
| 48 | Coupled-wire description of the correlated physics in twisted bilayer graphene. <i>Physical Review B</i> , 2019 , 99, | 3-3 | 29 |
| 47 | Out-of-time-order correlation in marginal many-body localized systems. <i>Physical Review B</i> , 2017 , 95, | 3-3 | 29 |
| 46 | Dynamical models and the phase ordering kinetics of the $s=1$ spinor condensate. <i>Physical Review B</i> , 2007 , 76, | 3-3 | 29 |
| 45 | Monte Carlo Study of Lattice Compact Quantum Electrodynamics with Fermionic Matter: The Parent State of Quantum Phases. <i>Physical Review X</i> , 2019 , 9, | 9-1 | 28 |
| 44 | Lieb-Schultz-Mattis theorem and its generalizations from the perspective of the symmetry-protected topological phase. <i>Physical Review B</i> , 2018 , 97, | 3-3 | 28 |
| 43 | Quantum phase transitions around the staggered valence-bond solid. <i>Physical Review B</i> , 2011 , 84, | 3-3 | 27 |
| 42 | Bridging fermionic and bosonic short range entangled states. <i>New Journal of Physics</i> , 2015 , 17, 075010 | 2-9 | 26 |
| 41 | Nonperturbative effects of a topological theta term on principal chiral nonlinear sigma models in 2 + 1 dimensions. <i>Physical Review Letters</i> , 2013 , 110, 200405 | 7-4 | 25 |
| 40 | Majorana liquids: the complete fractionalization of the electron. <i>Physical Review Letters</i> , 2010 , 105, 057201 | 7-4 | 25 |
| 39 | From bosonic topological transition to symmetric fermion mass generation. <i>Physical Review B</i> , 2018 , 97, | 3-3 | 23 |
| 38 | Quantum phase transitions between bosonic symmetry-protected topological states without sign problem: Nonlinear sigma model with a topological term. <i>Physical Review B</i> , 2016 , 93, | 3-3 | 23 |

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| 37 | Ferromagnetism and spin-valley liquid states in moiré-correlated insulators. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 23 |
| 36 | Symmetric Fermion Mass Generation as Deconfined Quantum Criticality. <i>Physical Review X</i> , 2018 , 8, | 9.1 | 22 |
| 35 | UNCONVENTIONAL QUANTUM CRITICAL POINTS. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1230007 | 1.1 | 22 |
| 34 | Square-lattice algebraic spin liquid with SO(5) symmetry. <i>Physical Review Letters</i> , 2008 , 100, 137201 | 7.4 | 20 |
| 33 | Two-dimensional symmetry-protected topological phases with PSU(N) and time-reversal symmetry. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 18 |
| 32 | Candidate theory for the strange metal phase at a finite-energy window. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 18 |
| 31 | Quantum simulation of the non-fermi-liquid state of Sachdev-Ye-Kitaev model. <i>Npj Quantum Information</i> , 2019 , 5, | 8.6 | 17 |
| 30 | Series of (2+1)-dimensional stable self-dual interacting conformal field theories. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 17 |
| 29 | Enhanced thermal Hall effect in the square-lattice Néel state. <i>Nature Physics</i> , 2019 , 15, 1290-1294 | 16.2 | 16 |
| 28 | Quantum critical point of Dirac fermion mass generation without spontaneous symmetry breaking. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 16 |
| 27 | Quantum Monte Carlo study of strange correlator in interacting topological insulators. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 14 |
| 26 | Deconfined quantum critical point on the triangular lattice. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 13 |
| 25 | Global phase diagram for the spin-1 antiferromagnet with uniaxial anisotropy on the kagome lattice. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 13 |
| 24 | Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. <i>Physical Review Letters</i> , 2017 , 118, 126801 | 7.4 | 12 |
| 23 | Topological nematic phase in Dirac semimetals. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 12 |
| 22 | Visualizing a bosonic symmetry protected topological phase in an interacting fermion model. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 12 |
| 21 | Topological number and fermion Green's function for strongly interacting topological superconductors. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 11 |
| 20 | Geometric criticality for transitions between plaquette phases in integer-spin kagome XXZ antiferromagnets. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 11 |

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| 19 | Bosonic short-range entangled states beyond group cohomology classification. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 9 |
| 18 | Lattice models for non-Fermi liquids with tunable transport scalings. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 7 |
| 17 | Emergent Fermi Surface in a Triangular-Lattice SU(4) Quantum Antiferromagnet. <i>Physical Review Letters</i> , 2020 , 125, 117202 | 7.4 | 7 |
| 16 | Topological quantum liquids with quaternion non-Abelian statistics. <i>Physical Review Letters</i> , 2012 , 108, 047202 | 7.4 | 5 |
| 15 | Continuous N ^e -VBS quantum phase transition in non-local one-dimensional systems with SO(3) symmetry. <i>SciPost Physics</i> , 2021 , 10, | 6.1 | 5 |
| 14 | Interacting topological phases in thin films of topological mirror Kondo insulators. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 4 |
| 13 | Interacting Topological Insulators with Synthetic Dimensions. <i>Physical Review X</i> , 2018 , 8, | 9.1 | 4 |
| 12 | Universal features of higher-form symmetries at phase transitions. <i>SciPost Physics</i> , 2021 , 11, | 6.1 | 4 |
| 11 | Interacting valley Chern insulator and its topological imprint on moiré superconductors. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |
| 10 | Self-duality protected multicriticality in deconfined quantum phase transitions. <i>Physical Review B</i> , 2021 , 104, | 3.3 | 3 |
| 9 | Boundary criticality of topological quantum phase transitions in two-dimensional systems. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 8 | Topological edge and interface states at bulk disorder-to-order quantum critical points. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 7 | Orbital order and possible non-Fermi liquid in moiré systems. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 6 | Physics of symmetry protected topological phases involving higher symmetries and its applications. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 2 |
| 5 | Generic Unnecessary quantum critical points with minimal degrees of freedom. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 1 |
| 4 | Construction of Fractal Order and Phase Transition with Rydberg Atoms.. <i>Physical Review Letters</i> , 2022 , 128, 017601 | 7.4 | 1 |
| 3 | Non-Landau quantum phase transitions and nearly-marginal non-Fermi liquid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 073102 | 1.9 | 1 |
| 2 | Magic continuum in a twisted bilayer square lattice with staggered flux. <i>Physical Review B</i> , 2021 , 104, | 3.3 | 1 |

1 Pascal's Triangle Fractal Symmetries.. *Physical Review Letters*, **2022**, 128, 115301

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