

Thomas C Lang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2212389/publications.pdf>

Version: 2024-02-01

26
papers

1,915
citations

471509

17
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum spin liquid emerging in two-dimensional correlated Dirac fermions. Nature, 2010, 464, 847-851.	27.8	503
2	Quantum simulation of 2D antiferromagnets with hundreds of Rydberg atoms. Nature, 2021, 595, 233-238.	27.8	302
3	Correlation Effects in Quantum Spin-Hall Insulators: A Quantum Monte Carlo Study. Physical Review Letters, 2011, 106, 100403.	7.8	215
4	Quantum phase transitions in the Kane-Mele-Hubbard model. Physical Review B, 2012, 85, .	3.2	130
5	Dynamical Signatures of Edge-State Magnetism on Graphene Nanoribbons. Physical Review Letters, 2011, 106, 226401.	7.8	115
6	Diagrammatic determinantal quantum Monte Carlo methods: Projective schemes and applications to the Hubbard-Holstein model. Physical Review B, 2007, 76, .	3.2	103
7	Antiferromagnetism in the Hubbard Model on the Bernal-Stacked Honeycomb Bilayer. Physical Review Letters, 2012, 109, 126402.	7.8	61
8	Dimerized Solids and Resonating Plaquette Order in $SU(N)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false")	7.8	56
9	Interaction-Induced Dirac Fermions from Quadratic Band Touching in Bilayer Graphene. Physical Review Letters, 2016, 117, 086404.	7.8	53
10	Entanglement spectra of interacting fermions in quantum Monte Carlo simulations. Physical Review B, 2014, 89, .	3.2	52
11	Quantum Monte Carlo Simulation of the Chiral Heisenberg Gross-Neveu-Yukawa Phase Transition with a Single Dirac Cone. Physical Review Letters, 2019, 123, 137602.	7.8	49
12	Z_2 topological invariants in two dimensions from quantum Monte Carlo. Physical Review B, 2013, 87, .	3.2	44
13	Quantum Monte Carlo studies of edge magnetism in chiral graphene nanoribbons. Physical Review B, 2013, 87, .	3.2	44
14	Interplay of fractional Chern insulator and charge density wave phases in twisted bilayer graphene. Physical Review B, 2021, 103, .	3.2	41
15	THE CHARACTERIZATION OF TOPOLOGICAL PROPERTIES IN QUANTUM MONTE CARLO SIMULATIONS OF THE KANE-MELE-HUBBARD MODEL. Modern Physics Letters B, 2014, 28, 1430001.	1.9	33
16	Magnetic Correlations in Short and Narrow Graphene Armchair Nanoribbons. Physical Review Letters, 2013, 111, 085504.	7.8	31
17	Effective models for strong correlations and edge magnetism in graphene. Physical Review B, 2013, 87, .	3.2	22
18	Spontaneous particle-hole symmetry breaking of correlated fermions on the Lieb lattice. Physical Review B, 2017, 95, .	3.2	14

#	ARTICLE	IF	CITATIONS
19	Magnetic field induced semimetal-to-canted-antiferromagnet transition on the honeycomb lattice. Physical Review B, 2009, 80, .	3.2	12
20	Comment on "The role of electron-electron interactions in two-dimensional Dirac fermions", Science, 2019, 366, .	12.6	8
21	Torus spectroscopy of the Gross-Neveu-Yukawa quantum field theory: Free Dirac versus chiral Ising fixed point. Physical Review B, 2021, 103, .	3.2	8
22	Finite-temperature investigation of quarter filled ladder systems. Physica B: Condensed Matter, 2005, 359-361, 1400-1402.	2.7	3
23	Quantum Monte Carlo Studies of Strongly Correlated Electron Systems. , 2009, , 669-686.		3
24	Autocorrelations in Quantum Monte Carlo Simulations of Electron-Phonon Models. , 2008, , 357-366.		2
25	Quantifying the fragility of unprotected quadratic band crossing points. Physical Review B, 2020, 101, .	3.2	2
26	Quantum Monte Carlo Studies of Strongly Correlated Electron Systems. , 2010, , 503-516.		0