

Thomas C Lang

List of Publications by Year in descending order

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26
papers

1,915
citations

471509

17
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610901

24
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28
all docs

28
docs citations

28
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Torus spectroscopy of the Gross-Neveu-Yukawa quantum field theory: Free Dirac versus chiral Ising fixed point. <i>Physical Review B</i> , 2021, 103, .	3.2	8
2	Interplay of fractional Chern insulator and charge density wave phases in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	3.2	41
3	Quantum simulation of 2D antiferromagnets with hundreds of Rydberg atoms. <i>Nature</i> , 2021, 595, 233-238.	27.8	302
4	Quantifying the fragility of unprotected quadratic band crossing points. <i>Physical Review B</i> , 2020, 101, .	3.2	2
5	Quantum Monte-Carlo Simulation of the Chiral Heisenberg Gross-Neveu-Yukawa Phase Transition with a Single Dirac Cone. <i>Physical Review Letters</i> , 2019, 123, 137602.	7.8	49
6	Comment on "The role of electron-electron interactions in two-dimensional Dirac fermions". <i>Science</i> , 2019, 366, .	12.6	8
7	Spontaneous particle-hole symmetry breaking of correlated fermions on the Lieb lattice. <i>Physical Review B</i> , 2017, 95, .	3.2	14
8	Interaction-Induced Dirac Fermions from Quadratic Band Touching in Bilayer Graphene. <i>Physical Review Letters</i> , 2016, 117, 086404.	7.8	53
9	THE CHARACTERIZATION OF TOPOLOGICAL PROPERTIES IN QUANTUM MONTE CARLO SIMULATIONS OF THE KANE-MELE-HUBBARD MODEL. <i>Modern Physics Letters B</i> , 2014, 28, 1430001.	1.9	33
10	Entanglement spectra of interacting fermions in quantum Monte Carlo simulations. <i>Physical Review B</i> , 2014, 89, .	3.2	52
11	$\langle Z^2 \rangle$ topological invariants in two dimensions from quantum Monte Carlo. <i>Physical Review B</i> , 2013, 87, .	3.2	44
12	Magnetic Correlations in Short and Narrow Graphene Armchair Nanoribbons. <i>Physical Review Letters</i> , 2013, 111, 085504.	7.8	31
13	Effective models for strong correlations and edge magnetism in graphene. <i>Physical Review B</i> , 2013, 87, .	3.2	22
14	Dimerized Solids and Resonating Plaquette Order in $SU(2)$ topological invariants in two dimensions from quantum Monte Carlo. <i>Physical Review B</i> , 2013, 87, .	7.8	56
15	Quantum Monte Carlo studies of edge magnetism in chiral graphene nanoribbons. <i>Physical Review B</i> , 2013, 87, .	3.2	44
16	Antiferromagnetism in the Hubbard Model on the Bernal-Stacked Honeycomb Bilayer. <i>Physical Review Letters</i> , 2012, 109, 126402.	7.8	61
17	Quantum phase transitions in the Kane-Mele-Hubbard model. <i>Physical Review B</i> , 2012, 85, .	3.2	130
18	Dynamical Signatures of Edge-State Magnetism on Graphene Nanoribbons. <i>Physical Review Letters</i> , 2011, 106, 226401.	7.8	115

#	ARTICLE	IF	CITATIONS
19	Correlation Effects in Quantum Spin-Hall Insulators: A Quantum Monte Carlo Study. Physical Review Letters, 2011, 106, 100403.	7.8	215
20	Quantum spin liquid emerging in two-dimensional correlated Dirac fermions. Nature, 2010, 464, 847-851.	27.8	503
21	Quantum Monte Carlo Studies of Strongly Correlated Electron Systems. , 2010, , 503-516.		0
22	Quantum Monte Carlo Studies of Strongly Correlated Electron Systems. , 2009, , 669-686.		3
23	Magnetic field induced semimetal-to-canted-antiferromagnet transition on the honeycomb lattice. Physical Review B, 2009, 80, .	3.2	12
24	Autocorrelations in Quantum Monte Carlo Simulations of Electron-Phonon Models. , 2008, , 357-366.		2
25	Diagrammatic determinantal quantum Monte Carlo methods: Projective schemes and applications to the Hubbard-Holstein model. Physical Review B, 2007, 76, .	3.2	103
26	Finite-temperature investigation of quarter filled ladder systems. Physica B: Condensed Matter, 2005, 359-361, 1400-1402.	2.7	3