Stefan Wessel

List of Publications by Year in Descending Order

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Version: 2024-04-18

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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.

37 papers	1,180	15	34
	citations	h-index	g-index
44	1,449	7	4.5
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
37	Quantum Monte Carlo simulations of highly frustrated magnets in a cluster basis: The two-dimensional Shastry-Sutherland model. <i>Journal of Physics: Conference Series</i> , 2022 , 2207, 012032	0.3	Ο
36	Surrogate models for quantum spin systems based on reduced-order modeling <i>Physical Review E</i> , 2022 , 105, 045303	2.4	0
35	Torus spectroscopy of the Gross-Neveu-Yukawa quantum field theory: Free Dirac versus chiral Ising fixed point. <i>Physical Review B</i> , 2021 , 103,	3.3	4
34	A quantum magnetic analogue to the critical point of water. <i>Nature</i> , 2021 , 592, 370-375	50.4	9
33	Multiparameter universality and conformal field theory for anisotropic confined systems: test by Monte Carlo simulations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 23LT01	2	O
32	Exact Critical Casimir Amplitude of Anisotropic Systems from Conformal Field Theory and Self-Similarity of Finite-Size Scaling Functions in da Dimensions. <i>Physical Review Letters</i> , 2021 , 126, 060	6 0 4	2
31	Spin versus bond correlations along dangling edges of quantum critical magnets. <i>Physical Review B</i> , 2021 , 103,	3.3	2
30	Quantifying the fragility of unprotected quadratic band crossing points. <i>Physical Review B</i> , 2020 , 101,	3.3	2
29	Emergent symmetries and coexisting orders in Dirac fermion systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
28	Nonordinary criticality at the edges of planar spin-1 Heisenberg antiferromagnets. <i>Physical Review B</i> , 2019 , 100,	3.3	6
27	Higgs Mode of Planar Coupled Spin Ladders and its Observation in C_{9}H_{18}N_{2}CuBr_{4}. <i>Physical Review Letters</i> , 2019 , 122, 127201	7.4	2
26	Thermodynamic properties of the Shastry-Sutherland model throughout the dimer-product phase. <i>Physical Review Research</i> , 2019 , 1,	3.9	20
25	Comment on "The role of electron-electron interactions in two-dimensional Dirac fermions". <i>Science</i> , 2019 , 366,	33.3	4
24	Diagnosing Fractionalization from the Spin Dynamics of Z_{2} Spin Liquids on the Kagome Lattice by Quantum Monte Carlo Simulations. <i>Physical Review Letters</i> , 2018 , 121, 077202	7.4	8
23	Thermodynamic properties of the Shastry-Sutherland model from quantum Monte Carlo simulations. <i>Physical Review B</i> , 2018 , 98,	3.3	9
22	Nonordinary edge criticality of two-dimensional quantum critical magnets. <i>Physical Review B</i> , 2018 , 98,	3.3	10
21	Thermal Critical Points and Quantum Critical End Point in the Frustrated Bilayer Heisenberg Antiferromagnet. <i>Physical Review Letters</i> , 2018 , 121, 127201	7.4	10

20	Anisotropic XY antiferromagnets in a field. European Physical Journal: Special Topics, 2017, 226, 779-788	3 2.3	O
19	Efficient Quantum Monte Carlo simulations of highly frustrated magnets: the frustrated spin-1/2 ladder. <i>SciPost Physics</i> , 2017 , 3,	6.1	15
18	Competing pairing channels in the doped honeycomb lattice Hubbard model. <i>Physical Review B</i> , 2016 , 94,	3.3	17
17	Thermodynamic properties of highly frustrated quantum spin ladders: Influence of many-particle bound states. <i>Physical Review B</i> , 2016 , 93,	3.3	22
16	Thermal Ising transitions in the vicinity of two-dimensional quantum critical points. <i>Physical Review B</i> , 2016 , 93,	3.3	43
15	Mott transition in the triangular lattice Hubbard model: A dynamical cluster approximation study. <i>Physical Review B</i> , 2015 , 91,	3.3	16
14	Finite-size effects in Luther-Emery phases of Holstein and Hubbard models. <i>Physical Review B</i> , 2015 , 92,	3.3	17
13	Evidence of a field-induced Berezinskii-Kosterlitz-Thouless scenario in a two-dimensional spin-dimer system. <i>Nature Communications</i> , 2014 , 5, 5169	17.4	29
12	Z2 topological invariants in two dimensions from quantum Monte Carlo. <i>Physical Review B</i> , 2013 , 87,	3.3	41
11	Quantum Monte Carlo studies of edge magnetism in chiral graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87,	3.3	32
10	Antiferromagnetism in the Hubbard model on the Bernal-stacked honeycomb bilayer. <i>Physical Review Letters</i> , 2012 , 109, 126402	7.4	53
9	A quantum spin-liquid in correlated relativistic electrons. <i>Annalen Der Physik</i> , 2012 , 524, 118-122	2.6	
8	Quantum phase transitions in the Kane-Mele-Hubbard model. <i>Physical Review B</i> , 2012 , 85,	3.3	109
7	Geometric fluctuations in a two-dimensional quantum antiferromagnet. <i>Physical Review B</i> , 2012 , 85,	3.3	1
6	Critical scales in anisotropic spin systems from functional renormalization. <i>Physical Review B</i> , 2012 , 85,	3.3	14
5	Half-vortex unbinding and Ising transition in constrained superfluids. <i>Physical Review B</i> , 2012 , 85,	3.3	16
4	Cubic interactions and quantum criticality in dimerized antiferromagnets. <i>Physical Review B</i> , 2011 , 83,	3.3	31
3	Quantum spin liquid emerging in two-dimensional correlated Dirac fermions. <i>Nature</i> , 2010 , 464, 847-51	50.4	449

2	Generalized directed loop method for quantum Monte Carlo simulations. <i>Physical Review E</i> , 2005 , 71, 036706	2.4	173
1	Phase diagram and thermodynamic properties of the square lattice of antiferromagnetic spin-12 triangles in La4Cu3MoO12. <i>Physical Review B</i> , 2001 , 63,	3.3	8