

Olav Fredrik SyljuÅ¥sen

List of Publications by Year in descending order

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39
papers

1,463
citations

516561

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395590

33
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39
all docs

39
docs citations

39
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Bloch oscillations and domain wall dynamics in a near-Ising ferromagnetic chain. Nature Communications, 2022, 13, 2547.	5.8	6
2	Widely existing mixed phase structure of the quantum dimer model on a square lattice. Physical Review B, 2021, 103, .	1.1	16
3	Arc-shaped structure factor in the J_1 - J_2 classical Heisenberg model on the triangular lattice. Physical Review B, 2021, 104, .		
4	Interplay between magnetic and vestigial nematic orders in the layered J_1 - J_2 classical Heisenberg model. Physical Review B, 2019, 99, .		
5	Sweeping cluster algorithm for quantum spin systems with strong geometric restrictions. Physical Review B, 2019, 99, .	1.1	28
6	Cooper pair induced frustration and nematicity of two-dimensional magnetic adatom lattices. Physical Review B, 2018, 97, .	1.1	0
7	Nematic Bond Theory of Heisenberg Helimagnets. Physical Review Letters, 2017, 119, 157202.	2.9	8
8	Dynamical structure factor of magnetic Bloch oscillations at finite temperatures. European Physical Journal B, 2015, 88, 1.	0.6	1
9	Numerical simulations of laser-excited magnetic Bloch oscillations. Physical Review B, 2013, 87, .	1.1	0
10	Spectral signatures of magnetic Bloch oscillations in one-dimensional easy-axis ferromagnets. Physical Review B, 2012, 85, .	1.1	6
11	Spin-wave calculation of the field-dependent magnetization pattern around an impurity in Heisenberg antiferromagnets. Physical Review B, 2011, 83, .	1.1	7
12	Magnetic-field-induced soft mode in spin-gapped high- T_c superconductors. Physical Review B, 2009, 80, .	1.1	7
13	Numerical evidence for unstable magnons at high fields in the Heisenberg antiferromagnet on the square lattice. Physical Review B, 2008, 78, .	1.1	23
14	Using the average spectrum method to extract dynamics from quantum Monte Carlo simulations. Physical Review B, 2008, 78, .	1.1	60
15	Length-Dependent Conductance of a Spin-Incoherent Hubbard Chain: Monte Carlo Calculations. Physical Review Letters, 2007, 98, 166401.	2.9	14
16	Detailed magnetic excitation spectra of ordered and disordered spin ladders. Physical Review B, 2007, 75, .	1.1	9
17	Universal Alternating Order around Impurities in Antiferromagnets. Physical Review Letters, 2007, 99, 097204.	2.9	25
18	Plaquette phase of the square-lattice quantum dimer model: Quantum Monte Carlo calculations. Physical Review B, 2006, 73, .	1.1	47

#	ARTICLE	IF	CITATIONS
19	Dimerized ground state in the one-dimensional spin-1 boson Hubbard model. Physical Review A, 2006, 74, .	1.0	28
20	Variational treatment of the Shastry-Sutherland antiferromagnet using projected entangled pair states. Physical Review E, 2006, 74, 026701.	0.8	35
21	Resonating Plaquette Phase of a Quantum Six-Vertex Model. Physical Review Letters, 2006, 96, 147004.	2.9	23
22	MONTE CARLO SIMULATION OF BOSON LATTICES. International Journal of Modern Physics B, 2006, 20, 5113-5116.	1.0	2
23	Diffusion Monte Carlo in Continuous Time. Journal of Low Temperature Physics, 2005, 140, 281-292.	0.6	0
24	Continuous-time diffusion Monte Carlo method applied to the quantum dimer model. Physical Review B, 2005, 71, .	1.1	31
25	Adjacent face scattering and stability of the square Fermi surface. Physical Review B, 2005, 72, .	1.1	6
26	RANDOM WALKS NEAR ROKHSARâ€™KIVELSON POINTS. International Journal of Modern Physics B, 2005, 19, 1973-1993.	1.0	10
27	Directed-loop Monte Carlo simulations of vertex models. Physical Review E, 2004, 70, 016118.	0.8	49
28	Concurrence in the two-dimensional XXZ- and transverse field Ising-models. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 322, 25-30.	0.9	30
29	Entanglement and spontaneous symmetry breaking in quantum spin models. Physical Review A, 2003, 68, .	1.0	113
30	Directed loop updates for quantum lattice models. Physical Review E, 2003, 67, 046701.	0.8	63
31	Anomalous Spin Excitation Spectrum of the Heisenberg Model in a Magnetic Field. Physical Review Letters, 2002, 88, 207207.	2.9	15
32	Quantum Monte Carlo with directed loops. Physical Review E, 2002, 66, 046701.	0.8	662
33	Loop algorithms for asymmetric Hamiltonians. Physical Review B, 2000, 61, R846-R849.	1.1	6
34	Ïf-MODEL ANALYSIS OF QUANTUM SPIN LADDERS. International Journal of Modern Physics B, 2000, 14, 457-573.	1.0	0
35	Correlation Lengths in Quantum Spin Ladders. Physical Review Letters, 1997, 78, 4115-4118.	2.9	22
36	Gauge invariance of the $\hat{\Gamma}^2$ -function in non-relativistic quantum electrodynamics. Nuclear Physics B, 1997, 493, 707-718.	0.9	0

#	ARTICLE	IF	CITATIONS
37	Chakravarty, Norton, and SyljuÅsen Reply:. Physical Review Letters, 1995, 75, 3585-3585.	2.9	6
38	Transverse Gauge Interactions and the Vanquished Fermi Liquid. Physical Review Letters, 1995, 74, 1423-1426.	2.9	96
39	Limits on supersymmetry masses from the anomalous magnetic moment of leptons. Physica Scripta, 1993, 48, 525-526.	1.2	0