

Thierry Jolicoeur

List of Publications by Year in descending order

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97
papers

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citations

101543

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59
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99
all docs

99
docs citations

99
times ranked

1948
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-wave results for the triangular Heisenberg antiferromagnet. Physical Review B, 1989, 40, 2727-2729.	3.2	194
2	Quantum Hall Fractions in Rotating Bose-Einstein Condensates. Physical Review Letters, 2003, 91, 030402.	7.8	174
3	Nonuniversality in helical and canted-spin systems. Physical Review Letters, 1990, 64, 3175-3178.	7.8	162
4	Onset of incommensurability at the valence-bond-solid point in the $S=1$ quantum spin chain. Physical Review B, 1996, 53, 3304-3311.	3.2	137
5	Finite-lattice extrapolations for a Haldane-gap antiferromagnet. Physical Review B, 1994, 50, 3037-3044.	3.2	128
6	Haldane Gap and Hidden Order in the $\langle i \rangle S \langle i \rangle = 2$ Antiferromagnetic Quantum Spin Chain. Europhysics Letters, 1995, 30, 493-498.	2.0	122
7	Incommensurate correlations in the Jand frustrated spin-1/2 Heisenberg models. Physical Review B, 1990, 42, 6283-6293.	3.2	116
8	Finite-Layer Thickness Stabilizes the Pfaffian State for the $5/2$ Fractional Quantum Hall Effect: Wave Function Overlap and Topological Degeneracy. Physical Review Letters, 2008, 101, 016807.	7.8	116
9	Ground-state properties of the $S=1/2$ Heisenberg antiferromagnet on a triangular lattice. Physical Review B, 1990, 42, 4800-4803.	3.2	104
10	Haldane gaps in a spin-1 Heisenberg chain with easy-plane single-ion anisotropy. Physical Review B, 1992, 45, 9798-9805.	3.2	94
11	Towards Quantum Simulation with Circular Rydberg Atoms. Physical Review X, 2018, 8, .	8.9	91
12	Double Gap and Solitonic Excitations in the Spin-Peierls Chain CuGeO_3 . Physical Review Letters, 1997, 78, 1560-1563.	7.8	83
13	Experimental Evidence of a Haldane Gap in an $S=2$ Quasi-Linear-Chain Antiferromagnet. Physical Review Letters, 1996, 77, 1616-1619.	7.8	81
14	Percolation Transition in the Random Antiferromagnetic Spin-1 Chain. Physical Review Letters, 1997, 79, 3254-3257.	7.8	78
15	Composite fermionization of bosons in rapidly rotating atomic traps. Physical Review A, 2005, 72, .	2.5	78
16	\tilde{J} -model study of Haldane-gap antiferromagnets. Physical Review B, 1994, 50, 9265-9273.	3.2	77
17	$S=2$ antiferromagnetic quantum spin chain. Physical Review B, 1996, 54, 4038-4051.	3.2	72
18	Orbital Landau level dependence of the fractional quantum Hall effect in quasi-two-dimensional electron layers: Finite-thickness effects. Physical Review B, 2008, 78, .	3.2	72

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19	Order-from-disorder phenomena in Heisenberg antiferromagnets on a triangular lattice. Physical Review B, 1992, 46, 11137-11140.	3.2	71
20	A renormalization-group study of helimagnets in $D = 2 + \frac{1}{2}$ dimensions. Nuclear Physics B, 1993, 408, 485-511.	2.5	70
21	Phase Diagram of the $\nu = \frac{1}{2}$ Fractional Quantum Hall Effect: Effects of Landau-Level Mixing and Nonzero Width. Physical Review X, 2015, 5, .	8.9	70
22	Magnetization Plateaus of $\text{SrCu}_2(\text{BO}_3)_2$ from a Chern-Simons Theory. Physical Review Letters, 2001, 87, 097203.	7.8	69
23	Quantum Hall fractions for spinless bosons. Physical Review B, 2004, 69, .	3.2	68
24	Dispersion of magnetic excitations in a spin-1 chain with easy-plane anisotropy. Physical Review B, 1992, 46, 10854-10857.	3.2	65
25	Dimer stability region in a frustrated quantum Heisenberg antiferromagnet. Physical Review B, 1991, 44, 12050-12053.	3.2	64
26	A holomorphy property and the critical dimension in string theory from an index theorem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 174, 273-276.	4.1	55
27	Phases of random antiferromagnetic spin-1 chains. Physical Review B, 1998, 58, 805-815.	3.2	47
28	Exchange coupling in the magnetic molecular cluster Mn_{12}Ac . Physical Review B, 2002, 66, .	3.2	46
29	Fluctuations beyond the Gutzwiller approximation in the slave-boson approach. Physical Review B, 1991, 44, 2403-2406.	3.2	43
30	Non-Abelian States with Negative Flux: A New Series of Quantum Hall States. Physical Review Letters, 2007, 99, 036805.	7.8	39
31	Luttinger Liquid of Trimers in Fermi Gases with Unequal Masses. Physical Review Letters, 2010, 104, 065301.	7.8	39
32	$\text{SO}(5)$ symmetry in the quantum Hall effect in graphene. Physical Review B, 2014, 90, .	3.2	39
33	The strong coupling expansion of lattice gauge theories with Susskind fermions. Nuclear Physics B, 1984, 235, 455-477.	2.5	38
34	The magnetic field behaviour of a Haldane-gap antiferromagnet. Journal of Physics Condensed Matter, 1993, 5, 7847-7858.	1.8	38
35	Phase transitions in the one-dimensional spin- $\frac{1}{2}$ XY model. Physical Review B, 2001, 63, .	3.2	37
36	Multiparticle Composites in Density-Imbalanced Quantum Fluids. Physical Review Letters, 2009, 103, 215301.	7.8	36

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37	Continuum symmetries of lattice models with staggered fermions. Nuclear Physics B, 1986, 274, 225-252.	2.5	35
38	Quantum detection of electronic flying qubits in the integer quantum Hall regime. Physical Review B, 2008, 77, .	3.2	33
39	Finite-size effects due to Goldstone particles in lattice gauge theory. Nuclear Physics B, 1985, 262, 627-643.	2.5	31
40	Dynamical properties of a Haldane-gap antiferromagnet. Journal of Physics Condensed Matter, 1993, 5, 1399-1410.	1.8	31
41	Bridge Between Abelian and Non-Abelian Fractional Quantum Hall States. Physical Review Letters, 2008, 101, 066803.	7.8	31
42	Composite fermion theory of rapidly rotating two-dimensional bosons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S89-S99.	1.5	24
43	Quantum Hall fractions in ultracold fermionic vapors. Physical Review B, 2004, 70, .	3.2	22
44	Relativistic quantum field theory with fractional spin and statistics. Nuclear Physics B, 1991, 350, 589-620.	2.5	21
45	Spin stiffness of canted antiferromagnets. Physical Review B, 1992, 45, 12612-12615.	3.2	20
46	Edge Logarithmic Corrections Probed by Impurity NMR. Physical Review Letters, 1999, 83, 2821-2824.	7.8	20
47	Parafermionic states in rotating Bose-Einstein condensates. Physical Review B, 2007, 76, .	3.2	19
48	Multimer formation in one-dimensional two-component gases and trimer phase in the asymmetric attractive Hubbard model. Physical Review A, 2011, 83, .	2.5	19
49	Generalized spin-density-wave state of the Hubbard model for C ₁₂ and C ₆₀ clusters. Physical Review B, 1993, 47, 5539-5542.	3.2	18
50	On the nature of the phase transition of helimagnets. Journal of Applied Physics, 1991, 69, 6170-6172.	2.5	17
51	Edge structure of graphene monolayers in the $\nu = 1/2$ Hall state. Physical Review B, 2015, 92, .	3.2	16
52	Ground-state properties of the Hubbard model on a C ₆₀ cluster. Physical Review B, 1993, 47, 12316-12319.	3.2	15
53	Generalized Helimagnets between Two and Four Dimensions. Physical Review Letters, 1996, 76, 3148-3151.	7.8	15
54	Modified Coulomb gas construction of quantum Hall states from nonunitary conformal field theories. Physical Review B, 2009, 80, .	3.2	15

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55	Stability and Pairing in Quasi-One-Dimensional Bose-Fermi Mixtures. <i>Physical Review Letters</i> , 2009, 103, 105304.	7.8	15
56	Unconventional Z parton states at $\nu = n$: Role of finite width. <i>Physical Review B</i> , 2021, 103, .	3.2	15
57	Absence of a gap in the Gaffnian state. <i>Physical Review B</i> , 2014, 90, .	3.2	13
58	Shape of the magnetoroton at $\nu = 1/2$ real samples. <i>Physical Review B</i> , 2017, 95, .	3.2	13
59	$O(N)$ vector model with twisted boundary conditions. <i>Journal of Statistical Physics</i> , 1993, 70, 583-598.	1.2	12
60	Interplay between fractional quantum Hall liquid and crystal phases at low filling. <i>Physical Review B</i> , 2020, 102, .	3.2	12
61	Comment on "Quantum Monte Carlo Approach to Elementary Excitations of Antiferromagnetic Heisenberg Chains". <i>Physical Review Letters</i> , 1996, 77, 2844-2844.	7.8	11
62	Exact wave functions for excitations of the $\nu = 1/3$ quantum Hall state from a model Hamiltonian. <i>Physical Review B</i> , 2012, 85, .	3.2	11
63	Field-induced disorder point in noncollinear Ising spin chains. <i>Physical Review B</i> , 2004, 70, .	3.2	10
64	Highest weight Macdonald and Jack polynomials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 055204.	2.1	9
65	Phase diagram of a graphene bilayer in the zero-energy Landau level. <i>Physical Review B</i> , 2016, 94, .	3.2	9
66	An analytical evaluation for the mass gap of the non-linear sigma model. <i>Nuclear Physics B</i> , 1988, 300, 517-530.	2.5	8
67	Coupled-cluster approximation in momentum space. <i>Physical Review B</i> , 1994, 49, 9548-9554.	3.2	8
68	Effects of randomness on the antiferromagnetic spin-1 chain. <i>Physical Review B</i> , 1998, 58, 8481-8489.	3.2	8
69	Tunneling in fractional quantum Hall line junctions. <i>Physical Review B</i> , 2005, 72, .	3.2	8
70	FRACTIONAL QUANTUM HALL STATES WITH NEGATIVE FLUX: EDGE MODES IN SOME ABELIAN AND NON-ABELIAN CASES. <i>International Journal of Modern Physics B</i> , 2010, 24, 549-566.	2.0	8
71	$SU(3)$ and $SU(4)$ Singlet Quantum Hall States at $\nu = 2/3$. <i>Physical Review Letters</i> , 2015, 115, 166805.	7.8	8
72	Incommensurability in the magnetic excitations of the bilinear-biquadratic spin-1 chain. <i>European Physical Journal B</i> , 1999, 11, 199.	1.5	8

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73	Symmetric quantum models from non-symmetric classical actions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 171, 431-434.	4.1	7
74	Anomalies for compact symmetries and the non-abelian anomaly on the lattice. Nuclear Physics B, 1987, 293, 215-228.	2.5	7
75	Theoretical Estimate of the Antiferromagnetic Correlation Length in Doped $\text{La}_{2-x}\text{CuO}_{4-x}$. Europhysics Letters, 1989, 10, 599-603.	2.0	7
76	Edge properties of principal fractional quantum Hall states in the cylinder geometry. Physical Review B, 2012, 86, .	3.2	7
77	Quantum Hall skyrmions at $\nu = \frac{1}{2}$ in monolayer graphene. Physical Review B, 2019, 100, .	3.2	0
78	Physics of integer-spin antiferromagnetic chains: Haldane gaps and edge states. Comptes Rendus Chimie, 2019, 22, 445-451.	0.5	7
79	Functional integral approach to kinetic theory. Physical Review A, 1989, 40, 5815-5821.	2.5	6
80	Generalized nonlinear sigma model approach to alternating spin chains and ladders. European Physical Journal B, 2000, 14, 47-52.	1.5	6
81	Magnetic susceptibility of the $O(N)$ non-linear sigma model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 215, 735-738.	4.1	5
82	ABELIAN BOSONIZATION IN A PATH INTEGRAL FRAMEWORK. International Journal of Modern Physics A, 1993, 08, 1923-1931.	1.5	5
83	A Self-Consistent Theory of Phase Transitions in Noncollinear Magnets. Europhysics Letters, 1995, 30, 555-559.	2.0	5
84	Critical exponents of the pure and random-field Ising models. Physical Review B, 1997, 56, 10766-10769.	3.2	5
85	Double gap in the spin-Peierls compound CuGeO_3 . Journal of Applied Physics, 1997, 81, 4393-4395.	2.5	5
86	QUANTUM HALL FRACTIONS IN ULTRACOLD ATOMIC VAPORS. Modern Physics Letters B, 2004, 18, 1003-1012.	1.9	5
87	Pairing in ultracold Fermi gases in the lowest Landau level. Physical Review A, 2009, 79, .	2.5	5
88	Fermionic trimers in spin-dependent optical lattices. Comptes Rendus Physique, 2011, 12, 39-46.	0.9	4
89	Many-body study of a quantum point contact in the fractional quantum Hall regime at $\nu = \frac{5}{2}$. Physical Review B, 2013, 88, .	3.2	4
90	Bubble phase at $\nu = \frac{1}{2}$ for spinless hollow-core interaction. Physical Review B, 2020, 102, .	3.2	4

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91	Short-range flaws. Nature, 1992, 356, 24-24.	27.8	3
92	Self-consistent interaction of magnons in a frustrated quantum antiferromagnet. Journal De Physique, I, 1992, 2, 371-377.	1.2	3
93	Staggered lattice models. Journal of Physics A, 1987, 20, 4923-4937.	1.6	2
94	Quantum Hall ferroelectric helix in bilayer graphene. Physical Review B, 2019, 99, .	3.2	2
95	Spin and valley ordering of fractional quantum Hall states in monolayer graphene. Physical Review B, 2022, 105, .	3.2	2
96	HEISENBERG ANTIFERROMAGNETIC CHAIN of SPIN S=1. International Journal of Modern Physics C, 1994, 05, 259-261.	1.7	0
97	Low-dimensional physics of ultracold gases with bound states and the sine-Gordon model. European Physical Journal: Special Topics, 2013, 217, 3-12.	2.6	0