

Gerhard MÃ¼ller

List of Publications by Year in descending order

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39
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docs citations

39
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to the Bethe Ansatz I. Computers in Physics, 1997, 11, 36.	0.5	111
2	Line-shape predictions via Bethe ansatz for the one-dimensional spin-1/2 Heisenberg antiferromagnet in a magnetic field. Physical Review B, 2000, 62, 14871-14879.	3.2	46
3	Recursion method in quantum spin dynamics: The art of terminating a continued fraction. Journal of Applied Physics, 1990, 67, 5486-5488.	2.5	35
4	Quasiparticles governing the zero-temperature dynamics of the one-dimensional spin-1/2 Heisenberg antiferromagnet in a magnetic field. Physical Review B, 2002, 66, .	3.2	32
5	Thermodynamics of ideal quantum gas with fractional statistics in D dimensions. Physical Review E, 2007, 75, 061120.	2.1	22
6	Spin diffusion in classical Heisenberg magnets with uniform, alternating, and random exchange. Journal of Applied Physics, 1994, 75, 6751-6753.	2.5	18
7	Taxonomy of particles in Ising spin chains. Physical Review E, 2011, 84, 021136.	2.1	18
8	Generalized Pauli principle for particles with distinguishable traits. Physical Review E, 2012, 85, 011144.	2.1	17
9	The recursion method applied to the T=0 dynamics of the 1D s=1/2 Heisenberg and XY models. Journal of Applied Physics, 1991, 70, 6178-6180.	2.5	16
10	Thermodynamics of a statistically interacting quantum gas in D dimensions. Physical Review E, 2007, 76, 061112.	2.1	16
11	Chaos in spin clusters: Quantum invariants and level statistics. Journal of Applied Physics, 1990, 67, 5627-5629.	2.5	15
12	Spectrum and transition rates of the XX chain analyzed via Bethe ansatz. Physical Review B, 2004, 69, .	3.2	14
13	The classical equivalent of the nearest-neighbor XXZ model: Exact results for dynamic correlation functions. Journal of Applied Physics, 1990, 67, 5489-5491.	2.5	12
14	Jammed disks in a narrow channel: criticality and ordering tendencies. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P04018.	2.3	12
15	Deterministic and stochastic spin diffusion in classical Heisenberg magnets. Journal of Applied Physics, 1991, 70, 6181-6183.	2.5	11
16	Statistically interacting vacancy particles. Physical Review E, 2014, 89, 012137.	2.1	11
17	Statistically interacting quasiparticles in Ising chains. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 265003.	2.1	10
18	Coil-helix transition of polypeptide at water-lipid interface. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P01034.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Hamiltonian Chaos. Computers in Physics, 1990, 4, 549-553.	0.5	9
20	Disks in a narrow channel jammed by gravity and centrifuge: profiles of pressure, mass density and entropy density. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P04008.	2.3	9
21	Monodisperse hard rods in external potentials. Physical Review E, 2015, 92, 042112.	2.1	7
22	Dimer and trimer fluctuations in the $s=1/2$ transverse XX chain. Physical Review B, 2005, 71, .	3.2	6
23	Interacting hard rods on a lattice: Distribution of microstates and density functionals. Journal of Chemical Physics, 2013, 139, 054113.	3.0	6
24	Density profiles of a self-gravitating lattice gas in one, two, and three dimensions. Physical Review E, 2018, 97, 042131.	2.1	6
25	Chaos in spin clusters: Correlation functions and spectral properties. Journal of Applied Physics, 1988, 63, 4154-4156.	2.5	5
26	Molecular chains under tension: Thermal and mechanical activation of statistically interacting extension and contraction particles. Physical Review E, 2020, 101, 022504.	2.1	5
27	Breakdown of scaling in the 1D spin-1/2 Heisenberg ferromagnet. Journal of Applied Physics, 1987, 61, 4429-4431.	2.5	3
28	Dynamical properties of quantum spin systems in magnetically ordered product ground states. Journal of Applied Physics, 1994, 75, 6057-6059.	2.5	3
29	Hamiltonian Chaos III. Computers in Physics, 1992, 6, 84.	0.5	2
30	Dynamics of quantum spin systems in dimer and valence-bond-solid ground states stabilized by competing interactions. Journal of Applied Physics, 1996, 79, 4629.	2.5	2
31	Interacting hard-sphere fluids in an external field. Physical Review E, 2021, 103, 032604.	2.1	2
32	Jammed disks of two sizes and weights in a channel: Alternating sequences. Physical Review E, 2022, 105, 024904.	2.1	2
33	Self-gravitating clusters of Bose-Einstein gas with planar, cylindrical, or spherical symmetry: Gaseous density profiles and onset of condensation. Physical Review E, 2022, 105, 034145.	2.1	2
34	Hamiltonian Chaos II. Computers in Physics, 1991, 5, 239.	0.5	1
35	Dynamics of the one-dimensional spin-1 Heisenberg antiferromagnet with exchange and single-site anisotropy. Journal of Applied Physics, 1994, 75, 5937-5939.	2.5	0
36	Order-parameter fluctuations in the frustrated Heisenberg model on the square lattice. Journal of Applied Physics, 1996, 79, 6630.	2.5	0

#	ARTICLE	IF	CITATIONS
37	COMPUTATIONAL PROBES OF COLLECTIVE EXCITATIONS IN LOW-DIMENSIONAL MAGNETISM. , 1999, , .		0
38	Mechanical response to tension and torque of molecular chains via statistically interacting particles associated with extension, contraction, twist, and supercoiling. Physical Review E, 2022, 105, .	2.1	0