Gerhard MÃ¼ller

List of Publications by Year
in descending order

38 papers	496 citations	858243 12 h-index	759306 22 g-index
39 all docs	39 docs citations	39 times ranked	353 citing authors

#	Article	IF	Citations
1	Jammed disks of two sizes and weights in a channel: Alternating sequences. Physical Review E, 2022, 105, 024904.	0.8	2
2	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.	0.8	2
3	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, .	0.8	0
4	Interacting hard-sphere fluids in an external field. Physical Review E, 2021, 103, 032604.	0.8	2
5	Molecular chains under tension: Thermal and mechanical activation of statistically interacting extension and contraction particles. Physical Review E, 2020, 101, 022504.	0.8	5
6	Density profiles of a self-gravitating lattice gas in one, two, and three dimensions. Physical Review E, 2018, 97, 042131.	0.8	6
7	Monodisperse hard rods in external potentials. Physical Review E, 2015, 92, 042112.	0.8	7
8	Coil-helix transition of polypeptide at water-lipid interface. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P01034.	0.9	10
9	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.	0.9	9
10	Statistically interacting vacancy particles. Physical Review E, 2014, 89, 012137.	0.8	11
11	Jammed disks in a narrow channel: criticality and ordering tendencies. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P04018.	0.9	12
12	Interacting hard rods on a lattice: Distribution of microstates and density functionals. Journal of Chemical Physics, 2013, 139, 054113.	1.2	6
13	Generalized Pauli principle for particles with distinguishable traits. Physical Review E, 2012, 85, 011144.	0.8	17
14	Taxonomy of particles in Ising spin chains. Physical Review E, 2011, 84, 021136.	0.8	18
15	Statistically interacting quasiparticles in Ising chains. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 265003.	0.7	10
16	Thermodynamics of ideal quantum gas with fractional statistics in D dimensions. Physical Review E, 2007, 75, 061120.	0.8	22
17	Thermodynamics of a statistically interacting quantum gas in D dimensions. Physical Review E, 2007, 76, 061112.	0.8	16
18	Dimer and trimer fluctuations in the $s=\frac{1}{2}$ transverse XX chain. Physical Review B, 2005, 71, .	1.1	6

#	ARTICLE	IF	CITATIONS
19	Spectrum and transition rates of the XX chain analyzed via Bethe ansatz. Physical Review B, 2004, 69, .	1.1	14
20	Quasiparticles governing the zero-temperature dynamics of the one-dimensional spin-1/2 Heisenberg antiferromagnet in a magnetic field. Physical Review B, 2002, 66, .	1.1	32
21	Line-shape predictions via Bethe ansatz for the one-dimensional spin-12 Heisenberg antiferromagnet in a magnetic field. Physical Review B, 2000, 62, 14871-14879.	1.1	46
22	COMPUTATIONAL PROBES OF COLLECTIVE EXCITATIONS IN LOW-DIMENSIONAL MAGNETISM. , 1999, , .		0
23	Introduction to the Bethe Ansatz I. Computers in Physics, 1997, 11, 36.	0.6	111
24	Order-parameter fluctuations in the frustrated Heisenberg model on the square lattice. Journal of Applied Physics, 1996, 79, 6630.	1.1	0
25	Dynamics of quantum spin systems in dimer and valence-bond-solid ground states stabilized by competing interactions. Journal of Applied Physics, 1996, 79, 4629.	1.1	2
26	Dynamical properties of quantum spin systems in magnetically ordered product ground states. Journal of Applied Physics, 1994, 75, 6057-6059.	1.1	3
27	Spin diffusion in classical Heisenberg magnets with uniform, alternating, and random exchange. Journal of Applied Physics, 1994, 75, 6751-6753.	1.1	18
28	Dynamics of the one-dimensional spin-1 Heisenberg antiferromagnet with exchange and single-site anisotropy. Journal of Applied Physics, 1994, 75, 5937-5939.	1.1	0
29	Hamiltonian Chaos III. Computers in Physics, 1992, 6, 84.	0.6	2
30	Hamiltonian Chaos II. Computers in Physics, 1991, 5, 239.	0.6	1
31	Deterministic and stochastic spin diffusion in classical Heisenberg magnets. Journal of Applied Physics, 1991, 70, 6181-6183.	1.1	11
32	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.	1.1	16
33	Hamiltonian Chaos. Computers in Physics, 1990, 4, 549-553.	0.6	9
34	The classical equivalent-neighbor XXZ model: Exact results for dynamic correlation functions. Journal of Applied Physics, 1990, 67, 5489-5491.	1.1	12
35	Chaos in spin clusters: Quantum invariants and level statistics. Journal of Applied Physics, 1990, 67, 5627-5629.	1.1	15
36	Recursion method in quantum spin dynamics: The art of terminating a continued fraction. Journal of Applied Physics, 1990, 67, 5486-5488.	1.1	35

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37	Chaos in spin clusters: Correlation functions and spectral properties. Journal of Applied Physics, 1988, 63, 4154-4156.	1.1	5
38	Breakdown of scaling in the 1D spin–1/2 Heisenberg ferromagnet. Journal of Applied Physics, 1987, 61, 4429-4431.	1.1	3