

Hartmut Monien

List of Publications by Year in descending order

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70
papers

4,798
citations

145106
33
h-index

111975
67
g-index

70
all docs

70
docs citations

70
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
1	Renormalization of two-body interactions due to higher-body interactions of lattice bosons. Physical Review B, 2014, 90, .	1.1	1
2	Unveiling the Physics of the Doped Phase of the J Model on the Kagome Lattice. Physical Review Letters, 2013, 111, 097204.	2.9	8
3	Lattice Green's functions for kagome, diced, and hyperkagome lattices. Physical Review E, 2013, 87, .	0.8	1
4	Doping on the kagome lattice: A variational Monte Carlo study of the t - J model. Physical Review B, 2011, 84, .	1.1	10
5	Strong-coupling expansion for bosons on the kagome lattice. Physical Review B, 2011, 84, .	1.1	4
6	Dynamical Cluster Approximation Study of the Anisotropic Two-Orbital Hubbard Model. Physical Review Letters, 2010, 104, 026402.	2.9	21
7	Efficient Perturbation Theory for Quantum Lattice Models. Physical Review Letters, 2009, 102, 206401.	2.9	105
8	Determination of the lattice susceptibility within the dual fermion method. Physical Review B, 2008, 78, .	1.1	16
9	Study of the charge correlation function in one-dimensional Hubbard heterostructures. Physical Review B, 2008, 78, .	1.1	4
10	Hubbard model on the triangular lattice using dynamical cluster approximation and dual fermion methods. Physical Review B, 2008, 78, .	1.1	42
11	Fictive-impurity approach to dynamical mean-field theory: A strong-coupling investigation. Physical Review B, 2007, 75, .	1.1	17
12	Quasiparticle dynamics in the Kondo lattice model at half filling. Physical Review B, 2006, 73, .	1.1	9
13	Spin Correlations and Finite-Size Effects in the One-Dimensional Kondo Box. Physical Review Letters, 2006, 97, 136604.	2.9	51
14	From Mott insulator to band insulator: A dynamical mean-field theory study. Physical Review B, 2006, 73, .	1.1	52
15	Fictive impurity models: An alternative formulation of the cluster dynamical mean-field method. Physical Review B, 2003, 68, .	1.1	24
16	Rung-singlet phase of the $S=1$ two-leg spin-ladder with four-spin cyclic exchange. Physical Review B, 2003, 67, .	1.1	28
17	LINKED CLUSTER SERIES EXPANSIONS FOR TWO-PARTICLE STATES IN QUANTUM LATTICE MODELS. International Journal of Modern Physics B, 2003, 17, 5011-5020.	1.0	1
18	Pseudogaps and phase-fluctuations. Journal of Physics and Chemistry of Solids, 2002, 63, 1371-1372.	1.9	0

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19	What Is Wrong with Paramagnons?. Journal of Low Temperature Physics, 2002, 126, 1123-1134.	0.6	3
20	Phenomenological Theory of the 3 Kelvin Phase in Sr ₂ RuO ₄ . Journal of the Physical Society of Japan, 2001, 70, 2409-2418.	0.7	62
21	Renormalization of the spin-Peierls transition due to phonon dynamics. Europhysics Letters, 2001, 56, 268-274.	0.7	8
22	Exact Results for the Crossover from Gaussian to Non-Gaussian Order Parameter Fluctuations in Quasi-One-Dimensional Electronic Systems. Physical Review Letters, 2001, 87, 126402.	2.9	21
23	Deconfinement transition and bound states in frustrated Heisenberg chains: Regimes of forced and spontaneous dimerization. Physical Review B, 2001, 63, .	1.1	20
24	Linked cluster series expansions for two-particle bound states. Physical Review B, 2001, 63, .	1.1	58
25	Strong-Coupling Expansions for Multiparticle Excitations: Continuum and Bound States. Physical Review Letters, 2000, 85, 4373-4376.	2.9	83
26	Comment on "Singularities and Pseudogaps in the Density of States of Peierls Chains". Physical Review Letters, 2000, 84, 2546-2546.	2.9	5
27	Pseudogaps in one-dimensional models with quasi-long-range order. Physical Review B, 2000, 61, 12496-12502.	1.1	28
28	One-dimensional Bose-Hubbard model with nearest-neighbor interaction. Physical Review B, 2000, 61, 12474-12489.	1.1	328
29	Dynamics and thermodynamics of the Bose-Hubbard model. Physical Review B, 1999, 59, 12184-12187.	1.1	155
30	Strong-coupling perturbation theory for the two-dimensional Bose-Hubbard model in a magnetic field. Physical Review B, 1999, 60, 2357-2362.	1.1	47
31	Atomic Bose-Einstein Condensates: A Model for Macroscopic Quantum Systems. Die Naturwissenschaften, 1998, 85, 203-218.	0.6	0
32	Spectral properties of strongly correlated systems. Physica B: Condensed Matter, 1998, 244, 81-85.	1.3	0
33	Phases of the one-dimensional Bose-Hubbard model. Physical Review B, 1998, 58, R14741-R14744.	1.1	275
34	Trapped one-dimensional Bose gas as a Luttinger liquid. Physical Review A, 1998, 58, R3395-R3398.	1.0	50
35	Strong-coupling expansions for the pure and disordered Bose-Hubbard model. Physical Review B, 1996, 53, 2691-2700.	1.1	315
36	Bilayer coupling in the yttrium-barium family of high-temperature superconductors. Physical Review B, 1996, 54, 16172-16178.	1.1	57

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37	Interplane relaxation and the bilayer coupling in Y2Ba4Cu7O15. Journal of Low Temperature Physics, 1995, 99, 343-348.	0.6	2
38	Spin gaps in high temperature superconductors. Journal of Physics and Chemistry of Solids, 1995, 56, 1641-1643.	1.9	12
39	Spin gaps and bilayer coupling in YBa2Cu3O7 δ and YBa2Cu4O8. Physical Review B, 1994, 50, 16606-16622.	1.1	50
40	Phase diagram of the Bose-Hubbard Model. Europhysics Letters, 1994, 26, 545-550.	0.7	184
41	Gauge theories of high-Tc superconductors. Physical Review B, 1993, 47, 3454-3456.	1.1	39
42	Spin fluctuations in a two-dimensional marginal Fermi liquid. Physical Review B, 1993, 48, 487-498.	1.1	97
43	Spin Gaps and Spin Dynamics in La2 δ xSrxCuO4 and YBa2Cu3O7 δ . Physical Review Letters, 1993, 70, 2810-2813.	2.9	226
44	Ground-state properties of the Hubbard model on a C60 cluster. Physical Review B, 1993, 47, 12316-12319.	1.1	15
45	Collective excitations and sum rules for the Hubbard model in the spin-density-wave regime. Physical Review B, 1992, 45, 3164-3167.	1.1	16
46	Antiferromagnetic correlations and nuclear magnetic relaxation in high-Tc superconductors: A critical reexamination. Physical Review B, 1992, 45, 3059-3076.	1.1	85
47	Theory of Raman scattering on spin fluctuations in nearly antiferromagnetic systems. Solid State Communications, 1992, 83, 1009-1013.	0.9	6
48	Transverse interactions and transport in quark-gluon and QED plasmas. Nuclear Physics A, 1991, 525, 415-418.	0.6	23
49	Application of the antiferromagnetic-Fermi-liquid theory to NMR experiments on YBa2Cu3O6.63. Physical Review B, 1991, 43, 258-274.	1.1	194
50	Anharmonic local-moment fluctuations in the Hubbard model. Physical Review B, 1991, 44, 10381-10384.	1.1	9
51	Application of antiferromagnetic-Fermi-liquid theory to NMR experiments in La1.85Sr0.15CuO4. Physical Review B, 1991, 43, 275-287.	1.1	130
52	Spin and charge excitations in YBa2Cu3O7: Constraints from spin-relaxation rates in the normal state. Physical Review B, 1990, 41, 11120-11127.	1.1	31
53	Transverse interactions and transport in relativistic quark-gluon and electromagnetic plasmas. Physical Review Letters, 1990, 64, 1867-1870.	2.9	258
54	Theory of Raman scattering with final-state interaction in high-Tc BCS superconductors: Collective modes. Physical Review B, 1990, 41, 8798-8810.	1.1	75

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55	Spin excitations and pairing gaps in the superconducting state of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1990, 41, 6297-6305.	1.1	92
56	Phenomenological model of nuclear relaxation in the normal state of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1990, 42, 167-178.	1.1	970
57	Theory of interband electron Raman scattering in $\text{YBa}_2\text{Cu}_3\text{O}_7$: A probe of unconventional superconductivity. Physical Review Letters, 1989, 63, 911-914.	2.9	58
58	Kinetics of quark-gluon plasmas. Nuclear Physics A, 1989, 498, 313-322.	0.6	40
59	Ultrasound attenuation peaks due to order parameter collective modes in impure superconductors with strong electron-hole asymmetry. Journal of Low Temperature Physics, 1988, 70, 309-325.	0.6	8
60	Free energy of anisotropic superconductors. Physica C: Superconductivity and Its Applications, 1988, 152, 302-314.	0.6	19
61	Josephson flow oscillations in superfluid ^3He -B. Canadian Journal of Physics, 1987, 65, 1388-1392.	0.4	7
62	Specific heat, thermal conductivity, and ultrasound attenuation in d-wave superconductors. Solid State Communications, 1987, 61, 581-585.	0.9	68
63	Ultrasound attenuation due to order parameter collective modes in impure anisotropic p-wave superconductors. Solid State Communications, 1987, 63, 1027-1031.	0.9	18
64	Resonant impurity scattering in anisotropic superconductors: Effects of arbitrary phase shifts and particle-hole asymmetry. Solid State Communications, 1987, 63, 263-267.	0.9	33
65	Attenuation of longitudinal and transverse ultrasound in p- and d-wave superconductors. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1987, 148, 45-49.	0.9	2
66	Ultrasound Attenuation due to Order Parameter Fluctuations in Impure p-Wave Superconductors. Japanese Journal of Applied Physics, 1987, 26, 1215.	0.8	5
67	Attenuation of ultrasound in p-wave superconductors. Solid State Communications, 1986, 60, 535-539.	0.9	41
68	Theory of Josephson flow oscillations in superfluid ^3He -B. Journal of Low Temperature Physics, 1986, 62, 277-300.	0.6	34
69	Effects of spin-orbit interaction and crystal fields on superconducting p-wave pair states and their collective excitations in cubic systems. Journal of Low Temperature Physics, 1986, 65, 13-46.	0.6	33
70	Longitudinal magnetic resonance (NMR) in the A1 phase of superfluid ^3He . Journal of Low Temperature Physics, 1985, 60, 323-345.	0.6	9