

# Hartmut Monien

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Phenomenological model of nuclear relaxation in the normal state of $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Physical Review B</i> , 1990, 42, 167-178.	3.2	970
2	One-dimensional Bose-Hubbard model with nearest-neighbor interaction. <i>Physical Review B</i> , 2000, 61, 12474-12489.	3.2	328
3	Strong-coupling expansions for the pure and disordered Bose-Hubbard model. <i>Physical Review B</i> , 1996, 53, 2691-2700.	3.2	315
4	Phases of the one-dimensional Bose-Hubbard model. <i>Physical Review B</i> , 1998, 58, R14741-R14744.	3.2	275
5	Transverse interactions and transport in relativistic quark-gluon and electromagnetic plasmas. <i>Physical Review Letters</i> , 1990, 64, 1867-1870.	7.8	258
6	Spin Gaps and Spin Dynamics in $\text{La}_2\text{xSrxCuO}_4$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Physical Review Letters</i> , 1993, 70, 2810-2813.	7.8	226
7	Application of the antiferromagnetic-Fermi-liquid theory to NMR experiments on $\text{YBa}_2\text{Cu}_3\text{O}_{6.63}$ . <i>Physical Review B</i> , 1991, 43, 258-274.	3.2	194
8	Phase diagram of the Bose-Hubbard Model. <i>Europhysics Letters</i> , 1994, 26, 545-550.	2.0	184
9	Dynamics and thermodynamics of the Bose-Hubbard model. <i>Physical Review B</i> , 1999, 59, 12184-12187.	3.2	155
10	Application of antiferromagnetic-Fermi-liquid theory to NMR experiments in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ . <i>Physical Review B</i> , 1991, 43, 275-287.	3.2	130
11	Efficient Perturbation Theory for Quantum Lattice Models. <i>Physical Review Letters</i> , 2009, 102, 206401.	7.8	105
12	Spin fluctuations in a two-dimensional marginal Fermi liquid. <i>Physical Review B</i> , 1993, 48, 487-498.	3.2	97
13	Spin excitations and pairing gaps in the superconducting state of $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Physical Review B</i> , 1990, 41, 6297-6305.	3.2	92
14	Antiferromagnetic correlations and nuclear magnetic relaxation in high- $T_c$ superconductors: A critical reexamination. <i>Physical Review B</i> , 1992, 45, 3059-3076.	3.2	85
15	Strong-Coupling Expansions for Multiparticle Excitations: Continuum and Bound States. <i>Physical Review Letters</i> , 2000, 85, 4373-4376.	7.8	83
16	Theory of Raman scattering with final-state interaction in high- $T_c$ BCS superconductors: Collective modes. <i>Physical Review B</i> , 1990, 41, 8798-8810.	3.2	75
17	Specific heat, thermal conductivity, and ultrasound attenuation in d-wave superconductors. <i>Solid State Communications</i> , 1987, 61, 581-585.	1.9	68
18	Phenomenological Theory of the 3 Kelvin Phase in $\text{Sr}_2\text{RuO}_4$ . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 2409-2418.	1.6	62

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19	Theory of interband electron Raman scattering in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : A probe of unconventional superconductivity. Physical Review Letters, 1989, 63, 911-914.	7.8	58
20	Linked cluster series expansions for two-particle bound states. Physical Review B, 2001, 63, .	3.2	58
21	Bilayer coupling in the yttrium-barium family of high-temperature superconductors. Physical Review B, 1996, 54, 16172-16178.	3.2	57
22	From Mott insulator to band insulator: A dynamical mean-field theory study. Physical Review B, 2006, 73, .	3.2	52
23	Spin Correlations and Finite-Size Effects in the One-Dimensional Kondo Box. Physical Review Letters, 2006, 97, 136604.	7.8	51
24	Spin gaps and bilayer coupling in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . Physical Review B, 1994, 50, 16606-16622.	3.2	50
25	Trapped one-dimensional Bose gas as a Luttinger liquid. Physical Review A, 1998, 58, R3395-R3398.	2.5	50
26	Strong-coupling perturbation theory for the two-dimensional Bose-Hubbard model in a magnetic field. Physical Review B, 1999, 60, 2357-2362.	3.2	47
27	Hubbard model on the triangular lattice using dynamical cluster approximation and dual fermion methods. Physical Review B, 2008, 78, .	3.2	42
28	Attenuation of ultrasound in p-wave superconductors. Solid State Communications, 1986, 60, 535-539.	1.9	41
29	Kinetics of quark-gluon plasmas. Nuclear Physics A, 1989, 498, 313-322.	1.5	40
30	Gauge theories of high-T <sub>c</sub> superconductors. Physical Review B, 1993, 47, 3454-3456.	3.2	39
31	Theory of Josephson flow oscillations in superfluid <sup>3</sup> He-B. Journal of Low Temperature Physics, 1986, 62, 277-300.	1.4	34
32	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.	1.4	33
33	Resonant impurity scattering in anisotropic superconductors: Effects of arbitrary phase shifts and particle-hole asymmetry. Solid State Communications, 1987, 63, 263-267.	1.9	33
34	Spin and charge excitations in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : Constraints from spin-relaxation rates in the normal state. Physical Review B, 1990, 41, 11120-11127.	3.2	31
35	Pseudogaps in one-dimensional models with quasi-long-range order. Physical Review B, 2000, 61, 12496-12502.	3.2	28
36	Rung-singlet phase of the S=1/2 two-leg spin-ladder with four-spin cyclic exchange. Physical Review B, 2003, 67, .	3.2	28

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37	Fictive impurity models: An alternative formulation of the cluster dynamical mean-field method. <i>Physical Review B</i> , 2003, 68, .	3.2	24
38	Transverse interactions and transport in quark-gluon and QED plasmas. <i>Nuclear Physics A</i> , 1991, 525, 415-418.	1.5	23
39	Exact Results for the Crossover from Gaussian to Non-Gaussian Order Parameter Fluctuations in Quasi-One-Dimensional Electronic Systems. <i>Physical Review Letters</i> , 2001, 87, 126402.	7.8	21
40	Dynamical Cluster Approximation Study of the Anisotropic Two-Orbital Hubbard Model. <i>Physical Review Letters</i> , 2010, 104, 026402.	7.8	21
41	Deconfinement transition and bound states in frustrated Heisenberg chains: Regimes of forced and spontaneous dimerization. <i>Physical Review B</i> , 2001, 63, .	3.2	20
42	Free energy of anisotropic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 152, 302-314.	1.2	19
43	Ultrasound attenuation due to order parameter collective modes in impure anisotropic P-wave superconductors. <i>Solid State Communications</i> , 1987, 63, 1027-1031.	1.9	18
44	Fictive-impurity approach to dynamical mean-field theory: A strong-coupling investigation. <i>Physical Review B</i> , 2007, 75, .	3.2	17
45	Collective excitations and sum rules for the Hubbard model in the spin-density-wave regime. <i>Physical Review B</i> , 1992, 45, 3164-3167.	3.2	16
46	Determination of the lattice susceptibility within the dual fermion method. <i>Physical Review B</i> , 2008, 78, .	3.2	16
47	Ground-state properties of the Hubbard model on a C60 cluster. <i>Physical Review B</i> , 1993, 47, 12316-12319.	3.2	15
48	Spin gaps in high temperature superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 1641-1643.	4.0	12
49	Doping on the Kagome lattice: A variational Monte Carlo study of the $t$ - $J$ - $V$ model. <i>Physical Review B</i> , 2011, 84, .	3.2	10
50	Longitudinal magnetic resonance (NMR) in the A1 phase of superfluid $^3\text{He}$ . <i>Journal of Low Temperature Physics</i> , 1985, 60, 323-345.	1.4	9
51	Anharmonic local-moment fluctuations in the Hubbard model. <i>Physical Review B</i> , 1991, 44, 10381-10384.	3.2	9
52	Quasiparticle dynamics in the Kondo lattice model at half filling. <i>Physical Review B</i> , 2006, 73, .	3.2	9
53	Ultrasound attenuation peaks due to order parameter collective modes in impure superconductors with strong electron-hole asymmetry. <i>Journal of Low Temperature Physics</i> , 1988, 70, 309-325.	1.4	8
54	Renormalization of the spin-Peierls transition due to phonon dynamics. <i>Europhysics Letters</i> , 2001, 56, 268-274.	2.0	8

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55	Unveiling the Physics of the Doped Phase of the $J_1$ Model on the Kagome Lattice. Physical Review Letters, 2013, 111, 097204.	7.8	8
56	Josephson flow oscillations in superfluid $^3\text{He-B}$ . Canadian Journal of Physics, 1987, 65, 1388-1392.	1.1	7
57	Theory of Raman scattering on spin fluctuations in nearly antiferromagnetic systems. Solid State Communications, 1992, 83, 1009-1013.	1.9	6
58	Comment on "Singularities and Pseudogaps in the Density of States of Peierls Chains". Physical Review Letters, 2000, 84, 2546-2546.	7.8	5
59	Ultrasound Attenuation due to Order Parameter Fluctuations in Impure p-Wave Superconductors. Japanese Journal of Applied Physics, 1987, 26, 1215.	1.5	5
60	Study of the charge correlation function in one-dimensional Hubbard heterostructures. Physical Review B, 2008, 78, .	3.2	4
61	Strong-coupling expansion for bosons on the kagome lattice. Physical Review B, 2011, 84, .	3.2	4
62	What Is Wrong with Paramagnons?. Journal of Low Temperature Physics, 2002, 126, 1123-1134.	1.4	3
63	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
64	Interplane relaxation and the bilayer coupling in $\text{Y}_2\text{Ba}_4\text{Cu}_7\text{O}_{15}$ . Journal of Low Temperature Physics, 1995, 99, 343-348.	1.4	2
65	LINKED CLUSTER SERIES EXPANSIONS FOR TWO-PARTICLE STATES IN QUANTUM LATTICE MODELS. International Journal of Modern Physics B, 2003, 17, 5011-5020.	2.0	1
66	Lattice Green's functions for kagome, diced, and hyperkagome lattices. Physical Review E, 2013, 87, .	2.1	1
67	Renormalization of two-body interactions due to higher-body interactions of lattice bosons. Physical Review B, 2014, 90, .	3.2	1
68	Atomic Bose-Einstein Condensates: A Model for Macroscopic Quantum Systems. Die Naturwissenschaften, 1998, 85, 203-218.	1.6	0
69	Spectral properties of strongly correlated systems. Physica B: Condensed Matter, 1998, 244, 81-85.	2.7	0
70	Pseudogaps and phase-fluctuations. Journal of Physics and Chemistry of Solids, 2002, 63, 1371-1372.	4.0	0