

# Werner Krauth

## List of Publications by Citations

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95  
papers

10,453  
citations

41  
h-index

98  
g-index

98  
ext. papers

11,368  
ext. citations

4.6  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
95	Dynamical mean-field theory of strongly correlated fermion systems and the limit of infinite dimensions. <i>Reviews of Modern Physics</i> , <b>1996</b> , 68, 13-125	40.5	4948
94	Exact diagonalization approach to correlated fermions in infinite dimensions: Mott transition and superconductivity. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1545-1548	7.4	485
93	Two-step melting in two dimensions: first-order liquid-hexatic transition. <i>Physical Review Letters</i> , <b>2011</b> , 107, 155704	7.4	362
92	Learning algorithms with optimal stability in neural networks. <i>Journal of Physics A</i> , <b>1987</b> , 20, L745-L752		276
91	Superfluid-insulator transition in disordered boson systems. <i>Physical Review Letters</i> , <b>1991</b> , 67, 2307-2310	7.4	249
90	Numerical solution of the d=.	7.4	213
89	Physical properties of the half-filled Hubbard model in infinite dimensions. <i>Physical Review B</i> , <b>1993</b> , 48, 7167-7182	3.3	203
88	Storage capacity of memory networks with binary couplings. <i>Journal De Physique</i> , <b>1989</b> , 50, 3057-3066		178
87	Coulomb and liquid dimer models in three dimensions. <i>Physical Review Letters</i> , <b>2003</b> , 91, 167004	7.4	171
86	Two-dimensional melting: from liquid-hexatic coexistence to continuous transitions. <i>Physical Review Letters</i> , <b>2015</b> , 114, 035702	7.4	168
85	Gutzwiller wave function for a model of strongly interacting bosons. <i>Physical Review B</i> , <b>1992</b> , 45, 3137-3140	3.4	163
84	Hard-disk equation of state: first-order liquid-hexatic transition in two dimensions with three simulation methods. <i>Physical Review E</i> , <b>2013</b> , 87, 042134	2.4	162
83	Absence of thermodynamic phase transition in a model glass former. <i>Nature</i> , <b>2000</b> , 405, 550-1	50.4	140
82	Mott and Superfluid Transitions in a Strongly Interacting Lattice Boson System. <i>Europhysics Letters</i> , <b>1991</b> , 14, 627-632	1.6	136
81	Quantum Monte Carlo Calculations for a Large Number of Bosons in a Harmonic Trap. <i>Physical Review Letters</i> , <b>1996</b> , 77, 3695-3699	7.4	125
80	Roughness at the depinning threshold for a long-range elastic string. <i>Physical Review E</i> , <b>2002</b> , 65, 025101	2.4	111
79	Event-chain Monte Carlo algorithms for hard-sphere systems. <i>Physical Review E</i> , <b>2009</b> , 80, 056704	2.4	103

78	Cluster algorithm for hard spheres and related systems. <i>Journal of Physics A</i> , <b>1995</b> , 28, L597-L601		99
77	Dynamics and thermodynamics of the low-temperature strongly interacting Bose gas. <i>Physical Review Letters</i> , <b>2011</b> , 107, 135301	7.4	95
76	Monte Carlo approach to M-theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 431, 31-41	4.2	95
75	Transition Temperature of the Homogeneous, Weakly Interacting Bose Gas. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2687-2690	7.4	84
74	Width distribution of contact lines on a disordered substrate. <i>Physical Review E</i> , <b>2004</b> , 69, 035103	2.4	80
73	Depinning of elastic manifolds. <i>Physical Review E</i> , <b>2003</b> , 67, 021602	2.4	79
72	Origin of the Roughness Exponent in Elastic Strings at the Depinning Threshold. <i>Physical Review Letters</i> , <b>2001</b> , 87,	7.4	77
71	Dynamics below the depinning threshold in disordered elastic systems. <i>Physical Review Letters</i> , <b>2006</b> , 97, 057001	7.4	74
70	Generalized event-chain Monte Carlo: constructing rejection-free global-balance algorithms from infinitesimal steps. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 054116	3.9	68
69	Creep dynamics of elastic manifolds via exact transition pathways. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	65
68	Kosterlitz-Thouless transition of the quasi-two-dimensional trapped Bose gas. <i>Physical Review Letters</i> , <b>2008</b> , 100, 190402	7.4	64
67	Numerical Solution of Hard-Core Mixtures. <i>Physical Review Letters</i> , <b>1998</b> , 80, 3787-3790	7.4	61
66	Precision Monte Carlo test of the Hartree-Fock approximation for a trapped Bose gas. <i>Physical Review A</i> , <b>1999</b> , 59, 2956-2961	2.6	60
65	The roles of stability and symmetry in the dynamics of neural networks. <i>Journal of Physics A</i> , <b>1988</b> , 21, 2995-3011		58
64	Effect of a magnetic field on Mott-Hubbard systems. <i>Physical Review B</i> , <b>1994</b> , 50, 3092-3102	3.3	53
63	Critical storage capacity of the $J = \pm 1$ neural network. <i>Journal of Physics A</i> , <b>1989</b> , 22, L519-L523		53
62	Thermodynamic phases in two-dimensional active matter. <i>Nature Communications</i> , <b>2018</b> , 9, 5045	17.4	53
61	Superconductivity in the two-band Hubbard model in infinite dimensions. <i>European Physical Journal B</i> , <b>1993</b> , 92, 313-321	1.2	52

60	Critical exponents of the driven elastic string in a disordered medium. <i>Physical Review E</i> , <b>2005</b> , 71, 061601-4	1.4	51
59	Finite Yang-Mills integrals. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 435, 350-355	4.2	49
58	The Cavity Method and the Travelling-Salesman Problem. <i>Europhysics Letters</i> , <b>1989</b> , 8, 213-218	1.6	49
57	Equilibrium state of a trapped two-dimensional Bose gas. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	48
56	Bethe ansatz for the one-dimensional boson Hubbard model. <i>Physical Review B</i> , <b>1991</b> , 44, 9772-9775	3.3	44
55	Efimov-driven phase transitions of the unitary Bose gas. <i>Nature Communications</i> , <b>2014</b> , 5, 3503	17.4	41
54	Pocket Monte Carlo algorithm for classical doped dimer models. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	41
53	Universal interface width distributions at the depinning threshold. <i>Physical Review E</i> , <b>2003</b> , 68, 036128	2.4	38
52	Monte Carlo dynamics of driven elastic strings in disordered media. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	37
51	Semiclassical theory of the quasi-two-dimensional trapped Bose gas. <i>Europhysics Letters</i> , <b>2008</b> , 82, 30001-6	1.6	35
50	Eigenvalue distributions in Yang-Mills integrals. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 453, 253-257	4.2	34
49	Hard-sphere melting and crystallization with event-chain Monte Carlo. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 084509	3.9	31
48	Depinning exponents of the driven long-range elastic string. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2007</b> , 2007, P01019-P01019	1.9	30
47	A rapid dynamical Monte Carlo algorithm for glassy systems. <i>Journal of Physics A</i> , <b>1994</b> , 27, L715-L720		27
46	Aging without disorder on long time scales. <i>European Physical Journal B</i> , <b>1995</b> , 97, 127-131	1.2	26
45	Yang-Mills integrals for orthogonal, symplectic and exceptional groups. <i>Nuclear Physics B</i> , <b>2000</b> , 584, 641-655	2.8	25
44	Event-chain algorithm for the Heisenberg model: Evidence for $z=1$ dynamic scaling. <i>Physical Review E</i> , <b>2015</b> , 92, 063306	2.4	23
43	Numerical Solutions of the Von Karman Equations for a Thin Plate. <i>International Journal of Modern Physics C</i> , <b>1997</b> , 08, 427-434	1.1	22

42	Phase separation in two-dimensional additive mixtures. <i>Physical Review E</i> , <b>1999</b> , 59, 2939-2941	2.4	22
41	Event-chain Monte Carlo for classical continuous spin models. <i>Europhysics Letters</i> , <b>2015</b> , 112, 20003	1.6	21
40	Universal correlations and coherence in quasi-two-dimensional trapped Bose gases. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	19
39	Two-dimensional QCD in the Wu-Mandelstam-Leibbrandt prescription. <i>Physical Review D</i> , <b>1998</b> , 57, 2456-2459	1.4	19
38	Non-integrability of two-dimensional QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 388, 808-812	4.2	19
37	Sampling from a polytope and hard-disk Monte Carlo. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 454, 012031	0.3	13
36	Geometry of Gaussian signals. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2005</b> , 2005, L08001-L08001	1.1	13
35	Extensive Numerical Simulations of Weighted Matchings: Total Length and Distribution of Links in the Optimal Solution. <i>Europhysics Letters</i> , <b>1991</b> , 14, 295-301	1.6	13
34	Irreversible Local Markov Chains with Rapid Convergence towards Equilibrium. <i>Physical Review Letters</i> , <b>2017</b> , 119, 240603	7.4	12
33	Cell-veto Monte Carlo algorithm for long-range systems. <i>Physical Review E</i> , <b>2016</b> , 94, 031302	2.4	12
32	Coexistence of solutions in dynamical mean-field theory of the Mott transition. <i>Physical Review B</i> , <b>2000</b> , 62, 6860-6861	3.3	11
31	Laser with large photon correlation times. <i>Physical Review A</i> , <b>1987</b> , 35, 2523-2531	2.6	11
30	All-atom computations with irreversible Markov chains. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 064113	3.9	10
29	Addendum to "Event-chain Monte Carlo algorithms for hard-sphere systems". <i>Physical Review E</i> , <b>2012</b> , 86, 017701	2.4	10
28	Renormalization group approach to exact sampling. <i>Physical Review Letters</i> , <b>2008</b> , 100, 060601	7.4	10
27	Linewidths of lasers with broken polarization symmetry. <i>Physical Review A</i> , <b>1987</b> , 35, 4192-4199	2.6	9
26	Event-Chain Monte Carlo: Foundations, Applications, and Prospects. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	9
25	Solid-liquid transition of skyrmions in a two-dimensional chiral magnet. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8

24	Universal width distributions in non-Markovian Gaussian processes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2007</b> , 2007, P02009-P02009	1.9	8
23	Yang-Mills integrals. <i>Classical and Quantum Gravity</i> , <b>2000</b> , 17, 1171-1179	3.3	8
22	Introduction to Monte Carlo algorithms <b>1998</b> , 1-35		8
21	Selective-pivot sampling of radial distribution functions in asymmetric liquid mixtures. <i>Molecular Physics</i> , <b>2007</b> , 105, 2393-2398	1.7	7
20	JeLLyFysh-Version1.0 Python application for all-atom event-chain Monte Carlo. <i>Computer Physics Communications</i> , <b>2020</b> , 253, 107168	4.2	6
19	Momentum Distribution in the Unitary Bose Gas from First Principles. <i>Physical Review Letters</i> , <b>2016</b> , 117, 225301	7.4	6
18	Mixing and perfect sampling in one-dimensional particle systems. <i>Europhysics Letters</i> , <b>2018</b> , 124, 20003	1.6	6
17	Irreversible Markov chains in spin models: Topological excitations. <i>Europhysics Letters</i> , <b>2018</b> , 121, 10008	1.6	5
16	Damage spreading and coupling in Markov chains. <i>Europhysics Letters</i> , <b>2010</b> , 92, 60004	1.6	5
15	A kinetic-Monte Carlo perspective on active matter. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 144113	3.9	4
14	Coming Home from a MOOC. <i>Computing in Science and Engineering</i> , <b>2015</b> , 17, 91-95	1.5	4
13	Thermal effects in the dynamics of disordered elastic systems. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 444-446	2.8	4
12	Off-diagonal long-range order, cycle probabilities, and condensate fraction in the ideal Bose gas. <i>Physical Review E</i> , <b>2007</b> , 76, 051109	2.4	4
11	Multithreaded event-chain Monte Carlo with local times. <i>Computer Physics Communications</i> , <b>2021</b> , 261, 107702	4.2	4
10	Event-chain Monte Carlo with factor fields. <i>Physical Review E</i> , <b>2019</b> , 99, 043301	2.4	3
9	Convergence and coupling for spin glasses and hard spheres. <i>Physical Review E</i> , <b>2010</b> , 81, 016705	2.4	3
8	Vacancy diffusion in the triangular-lattice dimer model. <i>Physical Review E</i> , <b>2008</b> , 78, 021112	2.4	3
7	Cluster Monte Carlo Algorithms <b>2005</b> , 5-22		2

6	Variant Monte Carlo algorithm for driven elastic strings in random media. <i>Computer Physics Communications</i> , <b>2005</b> , 169, 188-191	4.2	2
5	Direction-sweep Markov chains. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	2
4	Sparse Hard-Disk Packings and Local Markov Chains. <i>Journal of Statistical Physics</i> , <b>2022</b> , 187, 1	1.5	2
3	Hard-disk dipoles and non-reversible Markov chains.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 084108	3.9	1
2	Liquid-solid transitions in the three-body hard-core model. <i>Europhysics Letters</i> , <b>2015</b> , 109, 20003	1.6	
1	Large-scale dynamics of event-chain Monte Carlo.. <i>Physical Review E</i> , <b>2022</b> , 105, 015309	2.4	