Philippe De Forcrand

List of Publications by Year
in descending order

49 papers	2,765 citations	279798 23 h-index	197818 49 g-index
49 all docs	49 docs citations	49 times ranked	857 citing authors

#	Article	IF	Citations
1	The QCD phase diagram for small densities from imaginary chemical potential. Nuclear Physics B, 2002, 642, 290-306.	2.5	586
2	The QCD phase diagram for three degenerate flavors and small baryon density. Nuclear Physics B, 2003, 673, 170-186.	2.5	266
3	Relevance of Center Vortices to QCD. Physical Review Letters, 1999, 82, 4582-4585.	7.8	199
4	The chiral critical line ofNf= 2+1 QCD at zero and non-zero baryon density. Journal of High Energy Physics, 2007, 2007, 077-077.	4.7	199
5	Constraining the QCD Phase Diagram by Tricritical Lines at Imaginary Chemical Potential. Physical Review Letters, 2010, 105, 152001.	7.8	136
6	Topology of the SU (2) vacuum: a lattice study using improved cooling. Nuclear Physics B, 1997, 499, 409-449.	2.5	121
7	The chiral critical point ofN_f= 3 QCD at finite density to the order (Î¼/T)⁴. Journal of High Energy Physics, 2008, 2008, 012-012.	4.7	119
8	Testing and tuning symplectic integrators for the hybrid Monte Carlo algorithm in lattice QCD. Physical Review E, 2006, 73, 036706.	2.1	106
9	Finite density QCD with a canonical approach. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 62-67.	0.4	103
10	't Hooft Loop in SU(2) Yang-Mills Theory. Physical Review Letters, 2001, 86, 1438-1441.	7.8	93
11	Chiral phase transition in two-flavor QCD from an imaginary chemical potential. Physical Review D, 2014, 90, .	4.7	69
12	Systematic errors of LÃ¼scher's fermion method and its extensions. Nuclear Physics B, 1995, 454, 645-660.	2.5	54
13	Deconfinement phase transition in one-flavor QCD. Physical Review D, 1999, 60, .	4.7	54
14	â€™t Hooft loops, electric flux sectors, and confinement inSU(2)Yang-Mills theory. Physical Review D, 2002, 66, .	4.7	51
15	Spin-Dependent Potentials in SU (3) Lattice Gauge Theory. Physical Review Letters, 1985, 55, 1254-1257.	7.8	46
16	Fast fermion Monte Carlo. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 968-970.	0.4	44
17	COMPARISON OF UPDATE ALGORITHMS FOR PURE GAUGE SU(3). Modern Physics Letters A, 1988, 03, 1367-1378.	1.2	37
18	Glueball wave functions in lattice gauge calculations. Physical Review Letters, 1992, 69, 245-248.	7.8	37

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19	Comparison of SO(3) and SU(2) lattice gauge theory. Nuclear Physics B, 2003, 651, 125-142.	2.5	37
20	QCD at zero baryon density and the Polyakov loop paradox. Physical Review D, 2006, 73, .	4.7	33
21	Electromagnetic fluxes, monopoles, and the order of 4d compact U(1) phase transition. Nuclear Physics B, 2004, 686, 85-118.	2.5	31
22	Precision lattice calculation of SU(2) â€™t Hooft loops. Physical Review D, 2005, 72, .	4.7	28
23	The phase diagram of Yang-Mills theory with a compact extra dimension. Journal of High Energy Physics, 2010, 2010, 1.	4.7	28
24	Progress on lattice QCD algorithms. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 228-235.	0.4	22
25	Multigrid techniques for quark propagator. Nuclear Physics, Section B, Proceedings Supplements, 1989, 9, 516-520.	0.4	21
26	Fast algorithms for fermionic Monte Carlo. Nuclear Physics B, 1985, 261, 613-632.	2.5	20
27	ODD-FLAVOR HYBRID MONTE CARLO ALGORITHM FOR LATTICE QCD. International Journal of Modern Physics C, 2002, 13, 343-365.	1.7	18
28	QCD from Chippewa Falls. Journal of Statistical Physics, 1986, 43, 1077-1094.	1.2	17
29	Finite-size scaling of interface free energies in the 3d Ising model. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 914-916.	0.4	17
30	Lattice QCD thermodynamics on the Grid. Computer Physics Communications, 2010, 181, 1715-1726.	7.5	17
31	Monte Carlo quasi-heat-bath by approximate inversion. Physical Review E, 1999, 59, 3698-3701.	2.1	15
32	Lattice gauge theory without link variables. Journal of High Energy Physics, 2014, 2014, 1.	4.7	14
33	Efficiency of the UV-filtered multiboson algorithm. Physical Review D, 2000, 61, .	4.7	13
34	Numerical properties of staggered quarks with a taste-dependent mass term. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
35	Dynamical mean field approximation applied to quantum field theory. Physical Review D, 2013, 88, .	4.7	12
36	Euclidean Dynamical Triangulation revisited: is the phase transition really 1st order?. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12

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37	One-flavour QCD at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 406-408.	0.4	11
38	U(1) lattice gauge theory with a topological action. Journal of High Energy Physics, 2015, 2015, 1.	4.7	10
39	Strong-coupling lattice QCD on anisotropic lattices. Physical Review D, 2018, 97, .	4.7	10
40	Electric and magnetic fluxes inSU(2) Yang-Mills theory. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 655-657.	0.4	8
41	Topological susceptibility from slabs. Journal of High Energy Physics, 2015, 2015, 1-18.	4.7	8
42	Two-flavor lattice QCD with a finite density of heavy quarks: heavy-dense limit and â€œparticle-holeâ€• symmetry. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
43	QCD at Zero Baryon Density. Progress of Theoretical Physics Supplement, 2004, 153, 330-334.	0.1	6
44	Thermodynamics of 1-flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 435-437.	0.4	4
45	Topological susceptibility of the 2D O(3) model under gradient flow. Physical Review D, 2018, 98, .	4.7	4
46	The MultiBoson method. Parallel Computing, 1999, 25, 1341-1355.	2.1	3
47	Lattice QCD with dynamical wilson fermions. Nuclear Physics A, 1987, 461, 361-366.	1.5	2
48	Topological Susceptibility under Gradient Flow. EPJ Web of Conferences, 2018, 175, 11024.	0.3	2
49	Adaptive step size for the hybrid Monte Carlo algorithm. Physical Review E, 1997, 55, 3658-3663.	2.1	1