

Benjamin Svetitsky

List of Publications by Year in descending order

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63
papers

3,537
citations

236925

25
h-index

155660

55
g-index

65
all docs

65
docs citations

65
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical behavior at finite-temperature confinement transitions. Nuclear Physics B, 1982, 210, 423-447.	2.5	729
2	A Monte Carlo study of SU(2) Yang-Mills theory at finite temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 98, 195-198.	4.1	443
3	Quark liberation at high temperature: A Monte Carlo study of SU(2) gauge theory. Physical Review D, 1981, 24, 450-460.	4.7	383
4	Symmetry aspects of finite-temperature confinement transitions. Physics Reports, 1986, 132, 1-53.	25.6	303
5	Diffusion of charmed quarks in the quark-gluon plasma. Physical Review D, 1988, 37, 2484-2491.	4.7	296
6	Zero of the discrete beta function in SU(3) lattice gauge theory with color sextet fermions. Physical Review D, 2008, 78, .	4.7	120
7	Quantum electrodynamics on a lattice: A Hamiltonian variational approach to the physics of the weak-coupling region. Physical Review D, 1979, 19, 619-638.	4.7	97
8	Phase structure of SU(3) gauge theory with two flavors of symmetric-representation fermions. Physical Review D, 2009, 79, .	4.7	83
9	Particle production in the central rapidity region of ultrarelativistic nuclear collisions. Physical Review Letters, 1986, 56, 219-222.	7.8	67
10	Infrared fixed point in SU(2) gauge theory with adjoint fermions. Physical Review D, 2011, 83, .	4.7	66
11	Bubble free energy at the quark-hadron phase transition. Physical Review D, 1991, 44, 878-886.	4.7	64
12	Latent heat of the SU(3) gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 131, 165-168.	4.1	58
13	Running coupling and mass anomalous dimension of SU(3) gauge theory with two flavors of symmetric-representation fermions. Physical Review D, 2010, 82, .	4.7	57
14	Spectroscopy of SU(4) composite Higgs theory with two distinct fermion representations. Physical Review D, 2018, 97, .	4.7	53
15	Baryon spectrum of SU(4) composite Higgs theory with two distinct fermion representations. Physical Review D, 2018, 97, .	4.7	40
16	Dynamical breaking of chiral symmetry in lattice gauge theories. Physical Review D, 1980, 22, 490-504.	4.7	39
17	Emergence of new quasiparticles in quantum electrodynamics at finite temperature. Physical Review D, 1992, 46, 4043-4051.	4.7	39
18	Breakdown of staggered fermions at nonzero chemical potential. Physical Review D, 2006, 74, .	4.7	39

#	ARTICLE	IF	CITATIONS
19	Localization properties of lattice fermions with plaquette and improved gauge actions. Physical Review D, 2005, 72, .	4.7	33
20	Partial compositeness and baryon matrix elements on the lattice. Physical Review D, 2019, 99, .	4.7	30
21	Mobility edge in lattice QCD. Physical Review D, 2005, 71, .	4.7	29
22	Order of the Finite-Temperature Phase Transition in the SU(4) Gauge Theory. Physical Review Letters, 1984, 52, 2205-2208.	7.8	27
23	Near the sill of the conformal window: Gauge theories with fermions in two-index representations. Physical Review D, 2013, 88, .	4.7	27
24	SU(4) lattice gauge theory with decuplet fermions: Schrödinger functional analysis. Physical Review D, 2012, 85, .	4.7	26
25	Spectroscopy of SU(4) gauge theory with two flavors of sextet fermions. Physical Review D, 2015, 91, .	4.7	26
26	Finite-temperature phase structure of SU(4) gauge theory with multiple fermion representations. Physical Review D, 2018, 97, .	4.7	25
27	Approximate dynamical symmetry in lattice quantum chromodynamics. Physical Review D, 1980, 22, 1190-1197.	4.7	24
28	Passage of charmed particles through the mixed phase in high-energy heavy-ion collisions. Physical Review D, 1997, 55, 2616-2623.	4.7	24
29	Improvement via hypercubic smearing in triplet and sextet QCD. Physical Review D, 2011, 83, .	4.7	23
30	Radiative contribution to the composite-Higgs potential in a two-representation lattice model. Physical Review D, 2019, 99, .	4.7	22
31	Numerical study of energy-level crossing. Physical Review D, 1974, 9, 2324-2329.	4.7	20
32	Mass anomalous dimension in sextet QCD. Physical Review D, 2013, 87, .	4.7	20
33	Fermion field theory on a lattice: Variational analysis of the Thirring model. Physical Review D, 1978, 17, 523-536.	4.7	18
34	Nonperturbative beta function in three-dimensional electrodynamics. Physical Review D, 2014, 90, .	4.7	16
35	Hamiltonian domain wall fermions at strong coupling. Physical Review D, 2000, 61, .	4.7	14
36	Metastable nonconfining states in SU(3) lattice gauge theory with sextet fermions. Physical Review D, 2010, 81, .	4.7	14

#	ARTICLE	IF	CITATIONS
37	Status of lattice gauge theory. Nuclear Physics A, 1987, 461, 71-90.	1.5	13
38	Instability of bubbles in the quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 251-253.	4.1	12
39	Lattice gauge theory with baryons at strong coupling. Physical Review D, 2003, 68, .	4.7	12
40	Radiative contribution to the effective potential in composite Higgs models from lattice gauge theory. Physical Review D, 2016, 94, .	4.7	11
41	Second order lattice fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 126, 259-262.	4.1	10
42	Suppressing dislocations in normalized hypercubic smearing. Physical Review D, 2014, 90, .	4.7	10
43	Accelerated dynamics in simulations of first-order phase transitions. Physical Review B, 1987, 36, 5647-5650.	3.2	9
44	Ising description of the transition region in SU(3) gauge theory at finite temperature. Physical Review D, 1997, 56, 5395-5399.	4.7	9
45	Spontaneous symmetry breaking in strong-coupling lattice QCD at high density. Physical Review D, 2004, 69, .	4.7	9
46	Effective Lagrangian for strongly coupled domain wall fermions. Physical Review D, 2001, 64, .	4.7	8
47	Multiple hadronization and the momentum of charmed particles. A signal of the quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 227, 450-454.	4.1	7
48	Divergent chiral condensate in the quenched Schwinger model. Physical Review D, 2005, 71, .	4.7	6
49	Lattice gauge theory in technicolor. Nuclear Physics A, 2009, 827, 547c-549c.	1.5	5
50	Taming lattice artifacts with Pauli-Villars fields. Physical Review D, 2021, 104, .	4.7	5
51	Flux tube dynamics in the dual superconductor. Physical Review D, 2000, 61, .	4.7	4
52	The phase transition of pure glue. Nuclear Physics A, 1984, 418, 477-484.	1.5	3
53	Charmonium in a weakly coupled quark-gluon plasma. Physical Review D, 1995, 52, 4248-4250.	4.7	3
54	Topology and metastability in the lattice Skyrme model. Physical Review D, 2000, 62, .	4.7	3

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55	Low-energy constant L10 in a two-representation lattice theory. Physical Review D, 2021, 103, .	4.7	2
56	Towards a composite Higgs and a partially composite top quark. , 2020, , .		1
57	Flux tube dynamics in the dual superconductor. Nuclear Physics A, 1999, 661, 617-620.	1.5	0
58	Effective spin models for the confinement phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 432-434.	0.4	0
59	Anisotropic Goldstone bosons of strong-coupling lattice QCD at high density. Physical Review D, 2004, 70, .	4.7	0
60	Localization and lattice fermions. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 314-319.	0.4	0
61	EXACT TOPOLOGICAL DENSITY IN THE LATTICE SKYRME MODEL. , 2001, , .		0
62	Comments on Multiplicity in Proton Nucleus Collisions. NATO ASI Series Series B: Physics, 1986, , 361-365.	0.2	0
63	Charm Transverse Momentum as a Thermometer of the Quark-Gluon Plasma. , 1999, , 627-630.		0