

Steven Gottlieb

List of Publications by Year in descending order

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117
papers

10,313
citations

47409

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101
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117
all docs

117
docs citations

117
times ranked

6933
citing authors

#	ARTICLE	IF	CITATIONS
1	Computing nucleon charges with highly improved staggered quarks. Physical Review D, 2021, 103, .	1.6	1
2	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
3	Hadronic-vacuum-polarization contribution to the muon's anomalous magnetic moment from four-flavor lattice QCD. Physical Review D, 2020, 101, .	1.6	82
4	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
5	$\langle \hat{t} K \hat{a} \rangle$	1.6	30
6	from $\langle u s u \rangle$	1.6	33
7	Lattice computation of the electromagnetic contributions to kaon and pion masses. Physical Review D, 2019, 99, .	1.6	27
8	Lattice QCD Impact on Determination of the CKM Matrix. Springer Proceedings in Physics, 2019, , 235-244.	0.1	0
9	Short-distance matrix elements for $D \rightarrow 0$ -meson mixing from lattice QCD. Physical Review D, 2018, 97, .	1.6	21
10	Strong-Isospin-Breaking Correction to the Muon Anomalous Magnetic Moment from Lattice QCD at the Physical Point. Physical Review Letters, 2018, 120, 152001.	2.9	71
11	$\langle B s \hat{t} \rangle$ form factors with 2+1 flavors. EPJ Web of Conferences, 2018, 175, 13008.	0.1	4
12	D -meson leptonic decay constants from four-flavor lattice QCD. Physical Review D, 2018, 98, .	1.6	149
13	Up-, down-, strange-, charm-, and bottom-quark masses from four-flavor lattice QCD. Physical Review D, 2018, 98, .	1.6	67
14	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
15	B form factors from three-flavor lattice QCD. Physical Review D, 2016, 93, .	1.6	71
16	Phenomenology of semileptonic B -meson decays with form factors from lattice QCD. Physical Review D, 2016, 93, .	1.6	60
17	B form factors from lattice QCD. Physical Review D, 2016, 93, .	1.6	71
18	B decays	1.6	82

#	ARTICLE	IF	CITATIONS
37	Design of MILC Lattice QCD Application for GPU Clusters. , 2011, , .		10
38	Tuning Fermilab heavy quarks in $\langle \bar{\psi}\psi \rangle$ flavor lattice QCD with application to hyperfine splittings. Physical Review D, 2011, 83, .	1.6	40
39	Future of Lattice Calculations with Staggered Sea Quarks. , 2011, , .		0
40	Topological susceptibility with the asqtad action. Physical Review D, 2010, 81, .	1.6	25
41	Quarkonium mass splittings in three-flavor lattice QCD. Physical Review D, 2010, 81, .	1.6	69
42	Scaling studies of QCD with the dynamical highly improved staggered quark action. Physical Review D, 2010, 82, .	1.6	112
43	Nonperturbative QCD simulations with $\langle \bar{\psi}\psi \rangle$ of improved staggered quarks. Reviews of Modern Physics, 2010, 82, 1349-1417.	1.6	112
44	$B \rightarrow D^* \ell \bar{\nu}_\ell$ form factor at zero recoil from three-flavor lattice QCD: A model independent determination of $ V_{cb} $. Physical Review D, 2009, 79, .	1.6	50
45	The Bottom-Up Implementation of One MILC Lattice QCD Application on the Cell Blade. International Journal of Parallel Programming, 2009, 37, 488-507.	1.1	10
46	Visualization of semileptonic form factors from lattice QCD. Physical Review D, 2009, 80, .	1.6	28
47	form factor from three-flavor lattice QCD: A model-independent determination of $ V_{cb} $. Physical Review D, 2009, 79, .	1.6	88
48	Equation of state and QCD transition at finite temperature. Physical Review D, 2009, 80, .	1.6	424
49	QCD thermodynamics with 2+1 flavors at nonzero chemical potential. Physical Review D, 2008, 77, .	1.6	38
50	Diquark representations for single heavy baryons with light staggered quarks. Physical Review D, 2008, 77, .	1.6	3
51	QCD equation of state with 2+1 flavors of improved staggered quarks. Physical Review D, 2007, 75, .	1.6	77
52	PREDICTIVE LATTICE QCD. International Journal of Modern Physics A, 2006, 21, 713-719.	0.5	5
53	Properties of light quarks from lattice QCD simulations 1. Journal of Physics: Conference Series, 2005, 16, 160-164.	0.3	0
54	Results for light pseudoscalars from three-flavor simulations. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 231-233.	0.5	7

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55	Semileptonic and decays in flavor lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 461-463.	0.5	113
56	Three Flavor QCD at High Temperatures. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 538-540.	0.5	0
57	Semileptonic Decays of DMesons in Three-Flavor Lattice QCD. Physical Review Letters, 2005, 94, 011601.	2.9	141
58	Charmed-Meson Decay Constants in Three-Flavor Lattice QCD. Physical Review Letters, 2005, 95, 122002.	2.9	126
59	QCD thermodynamics with three flavors of improved staggered quarks. Physical Review D, 2005, 71, .	1.6	196
60	High-Precision Lattice QCD Confronts Experiment. Physical Review Letters, 2004, 92, 022001.	2.9	276
61	Light pseudoscalar decay constants, quark masses, and low energy constants from three-flavor lattice QCD. Physical Review D, 2004, 70, .	1.6	246
62	Light hadrons with improved staggered quarks: Approaching the continuum limit. Physical Review D, 2004, 70, .	1.6	253
63	Excited states in staggered meson propagators. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 230-232.	0.5	4
64	Properties of charmonium in lattice QCD with 2 + 1 flavors of improved staggered sea quarks. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 340-342.	0.5	19
65	The phase diagram of high temperature QCD with three flavors of improved staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 626-628.	0.5	6
66	Exotic hybrid mesons from improved Kogut-Susskind fermions. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 260-262.	0.5	7
67	High temperature QCD with three flavors of improved staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 523-528.	0.5	15
68	A lattice study of $b \rightarrow c$ semileptonic decay. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 644-646.	0.5	17
69	Lattice calculation of $1\hat{a}^+$ hybrid mesons with improved Kogut-Susskind fermions. Physical Review D, 2003, 68, .	1.6	52
70	Topological susceptibility with the improved Asqtad action. Physical Review D, 2003, 68, .	1.6	28
71	Lattice calculation of heavy-light decay constants with two flavors of dynamical quarks. Physical Review D, 2002, 66, .	1.6	49
72	Benchmarking and tuning the MILC code on clusters and supercomputers. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1031-1033.	0.5	1

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73	QCD spectrum with three quark flavors. Physical Review D, 2001, 64, .	1.6	328
74	Static quark potential in three flavor QCD. Physical Review D, 2000, 62, .	1.6	97
75	Scaling tests of the improved Kogut-Susskind quark action. Physical Review D, 2000, 61, .	1.6	77
76	Exotic meson spectroscopy from the clover action at $\hat{\beta}^2 = 5.85$ and 6.15. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 264-266.	0.5	41
77	Quenched hadron spectroscopy with improved staggered quark action. Physical Review D, 1998, 58, .	1.6	48
78	B mixing on the lattice: $f_{[sub B]}$, $f_{[sub B[sub s]]}$ and related quantities. , 1998, , .		0
79	Improving flavor symmetry in the Kogut-Susskind hadron spectrum. Physical Review D, 1997, 55, R1133-R1137.	1.6	98
80	Which Chiral Symmetry is Restored in High Temperature Quantum Chromodynamics?. Physical Review Letters, 1997, 78, 598-601.	2.9	66
81	Equation of state for two flavor QCD at $Nt=6$. Physical Review D, 1997, 55, 6861-6869.	1.6	73
82	QCD thermodynamics with an improved lattice action. Physical Review D, 1997, 56, 5584-5595.	1.6	26
83	Exotic mesons in quenched lattice QCD. Physical Review D, 1997, 56, 7039-7051.	1.6	132
84	Two-flavor staggered-fermion thermodynamics at $Nt = 12$. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 499-502.	0.5	3
85	The $Nt = 6$ equation of state for two flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 503-510.	0.5	3
86	Two-flavor staggered fermion thermodynamics at $Nt=12$. Physical Review D, 1996, 54, 4585-4594.	1.6	47
87	The $\hat{\beta}^2$ function and equation of state of two flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 460-465.	0.5	4
88	$\hat{\beta}^2$ function and equation of state for QCD with two flavors of quarks. Physical Review D, 1995, 51, 5153-5164.	1.6	74
89	Effects of spatial size, lattice doubling, and source operators on the hadron spectrum with dynamical staggered quarks at $6g^2=5.6$. Physical Review D, 1994, 49, 6026-6038.	1.6	10
90	Nature of the thermal phase transition with Wilson quarks. Physical Review D, 1994, 49, 3574-3588.	1.6	21

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91	Baryon density correlations in high temperature hadronic matter. Physical Review D, 1994, 49, 6051-6062.	1.6	7
92	Finite-size and quark mass effects on the QCD spectrum with two flavors. Physical Review D, 1993, 48, 4419-4434.	1.6	27
93	Comparison of lattice Coulomb-gauge wave functions in the quenched approximation and with dynamical fermions. Physical Review D, 1993, 47, 285-294.	1.6	7
94	Simple hadronic matrix elements with Wilson valence quarks and dynamical staggered fermions at $6g^2=5.6$. Physical Review D, 1993, 48, 370-387.	1.6	15
95	Thermodynamics of lattice QCD with two light quarks on a $16^3 \times 8$ lattice. Physical Review D, 1993, 47, 3619-3632.	1.6	30
96	QCD thermodynamics with two flavors at $N_t=6$. Physical Review D, 1992, 45, 3854-3861.	1.6	41
97	Hadron spectrum in QCD with valence Wilson fermions and dynamical staggered fermions at $6g^2=5.6$. Physical Review D, 1992, 46, 2169-2178.	1.6	24
98	Spatial structure of screening propagators in hot QCD. Physical Review Letters, 1992, 68, 2125-2128.	2.9	63
99	Finite size scaling and the QCD high temperature phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 173-176.	0.5	0
100	Hadron spectrum with staggered dynamical quarks. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 404-407.	0.5	2
101	Lattice gauge theory on the Intel parallel scientific computer. AIP Conference Proceedings, 1990, , .	0.3	0
102	Quantum chromodynamics at $6/g^2=5.60$. Physical Review Letters, 1990, 65, 2106-2109.	2.9	25
103	Hadron spectrum in QCD at $6g^2=5.6$. Physical Review D, 1990, 42, 3794-3818.	1.6	46
104	QCD thermodynamics with eight time slices. Physical Review D, 1990, 41, 622-625.	1.6	13
105	Four-flavor QCD with intermediate- and light-mass quarks. Physical Review D, 1989, 40, 2389-2409.	1.6	9
106	More on the spectrum with Kogut-Susskind fermions. Nuclear Physics, Section B, Proceedings Supplements, 1989, 9, 259-263.	0.5	2
107	Phase diagram of four flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1989, 9, 326-330.	0.5	1
108	Hadronic screening lengths and quark number susceptibility from lattice QCD. Nuclear Physics A, 1989, 498, 435-439.	0.6	9

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109	Finite temperature QCD with dynamical fermionsâ€”quark number susceptibility and chiral symmetry restoration. Nuclear Physics, Section B, Proceedings Supplements, 1988, 4, 294-298.	0.5	3
110	Hadron masses with two quark flavors. Physical Review D, 1988, 38, 2245-2265.	1.6	59
111	Fermion-number susceptibility in lattice gauge theory. Physical Review D, 1988, 38, 2888-2896.	1.6	71
112	Empirical study of the hybrid-molecular-dynamics approach to the simulation of QCD. Physical Review D, 1987, 36, 3797-3803.	1.6	11
113	Testing an exact algorithm for simulation of fermionic QCD. Physical Review D, 1987, 35, 2611-2614.	1.6	9
114	Quark-number susceptibility of high-temperature QCD. Physical Review Letters, 1987, 59, 2247-2250.	2.9	160
115	Chiral-symmetry breaking in lattice QCD with two and four fermion flavors. Physical Review D, 1987, 35, 3972-3980.	1.6	92
116	Estimating the chiral-symmetryâ€™restoration temperature in two-flavor QCD. Physical Review Letters, 1987, 59, 1513-1516.	2.9	99
117	Hybrid-molecular-dynamics algorithms for the numerical simulation of quantum chromodynamics. Physical Review D, 1987, 35, 2531-2542.	1.6	357