Stefan Krieg

List of Publications by Year
in descending order

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72 papers	6,725 citations	117571 34 h-index	114418 63 g-index
76 all docs	76 docs citations	76 times ranked	3357 citing authors

#	Article	IF	Citations
1	Machine learning to alleviate Hubbard-model sign problems. Physical Review B, 2021, 103, .	1.1	19
2	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi></mml:math> -wave nucleon-pion scattering amplitude in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î”</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1232</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 682 Td (stretchy="false">)</m	1.6	16
3	Antiferromagnetic character of the quantum phase transition in the Hubbard model on the honeycomb lattice. Physical Review B, 2021, 104, .	1.1	9
4	Modeling the spread of COVID-19 in Germany: Early assessment and possible scenarios. PLoS ONE, 2020, 15, e0238559.	1.1	67
5	Semimetalâ€“Mott insulator quantum phase transition of the Hubbard model on the honeycomb lattice. Physical Review B, 2020, 102, .	1.1	20
6	From Ji to Jaffe-Manohar orbital angular momentum in lattice QCD using a direct derivative method. Physical Review D, 2020, 102, .	1.6	11
7	Nucleon axial, scalar, and tensor charges using lattice QCD at the physical pion mass. Physical Review D, 2019, 99, .	1.6	35
8	Excited-state effects in nucleon structure on the lattice using hybrid interpolators. Physical Review D, 2019, 100, .	1.6	3
9	Accelerating Hybrid Monte Carlo simulations of the Hubbard model on the hexagonal lattice. Computer Physics Communications, 2019, 236, 15-25.	3.0	9
10	Towards the P-wave nucleon-pion scattering amplitude in the $Delta$ (1232) channel. , 2019, , .		3
11	Lattice QCD results for the HVP contribution to the anomalous magnetic moments of leptons. EPJ Web of Conferences, 2018, 175, 06016.	0.1	0
12	Extracting the Single-Particle Gap in Carbon Nanotubes with Lattice Quantum Monte Carlo. EPJ Web of Conferences, 2018, 175, 03009.	0.1	5
13	Computing the nucleon charge and axial radii directly at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Q</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m in lattice QCD. Physical Review D, 2018, 97, .	1.6	35
14	Hadronic Vacuum Polarization Contribution to the Anomalous Magnetic Moments of Leptons from First Principles. Physical Review Letters, 2018, 121, 022002.	2.9	116
15	Leptonic decay-constant ratio <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>f</mml:mi><mml:mi>K</mml:mi></mml:msub><mml:mo stretchy="false">/</mml:mo><mml:msub><mml:mi>f</mml:mi><mml:mi>Ï€</mml:mi></mml:msub></mml:math> from lattice QCD using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> clover-improved fermion flavors with 2-HEX smearing. Physical Review D, 2017, 95, .	1.6	13
16	Up, down, and strange nucleon axial form factors from lattice QCD. Physical Review D, 2017, 95, .	1.6	70
17	Slope and curvature of the hadronic vacuum polarization at vanishing virtuality from lattice QCD. Physical Review D, 2017, 96, .	1.6	20
18	Up and Down Quark Masses and Corrections to Dashenâ€™s Theorem from Lattice QCD and Quenched QED. Physical Review Letters, 2016, 117, 082001.	2.9	48

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19	Lattice Computation of the Nucleon Scalar Quark Contents at the Physical Point. Physical Review Letters, 2016, 116, 172001.	2.9	102
20	QCD thermodynamics with continuum extrapolated Wilson fermions. II.. Physical Review D, 2015, 92, .	1.6	24
21	High-precision calculation of the strange nucleon electromagnetic form factors. Physical Review D, 2015, 92, .	1.6	54
22	From quarks to hadrons and back - spectral and bulk phenomena of strongly interacting matter. Journal of Physics: Conference Series, 2015, 640, 012053.	0.3	0
23	Ab initio calculation of the neutron-proton mass difference. Science, 2015, 347, 1452-1455.	6.0	263
24	Lattice QCD at the physical point meets<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>2</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537 Td (stretchy="false">)</mml:m 2014, 90, .	1.6	41
25	Freeze-Out Parameters from Electric Charge and Baryon Number Fluctuations: Is There Consistency?. Physical Review Letters, 2014, 113, 052301.	2.9	132
26	Adaptive Aggregation-Based Domain Decomposition Multigrid for the Lattice Wilson--Dirac Operator. SIAM Journal of Scientific Computing, 2014, 36, A1581-A1608.	1.3	87
27	Freeze-out conditions from fluctuations of conserved charges. Nuclear Physics A, 2014, 931, 802-807.	0.6	3
28	Nucleon electromagnetic form factors from lattice QCD using a nearly physical pion mass. Physical Review D, 2014, 90, .	1.6	68
29	Charmonium spectral functions from 2+1 flavour lattice QCD. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
30	Nucleon structure from Lattice QCD using a nearly physical pion mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 290-295.	1.5	60
31	Full result for the QCD equation of state with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> flavors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 99-104.	1.5	753
32	Fluctuations of conserved charges on the lattice and in heavy ion collisions. Journal of Physics: Conference Series, 2014, 535, 012030.	0.3	3
33	Equation of state, fluctuations and other recent results from LQCD. Journal of Physics: Conference Series, 2014, 535, 012016.	0.3	0
34	Nucleon form factors with light Wilson quarks. , 2014, , .		1
35	Lattice QCD thermodynamics in the presence of the charm quark. Nuclear Physics A, 2013, 904-905, 869c-872c.	0.6	8
36	Freeze-Out Parameters: Lattice Meets Experiment. Physical Review Letters, 2013, 111, 062005.	2.9	149

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37	SU(2) chiral perturbation theory low-energy constants from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mo mathvariant="bold">+</mml:mo><mml:mn>1</mml:mn></mml:math>flavor staggered lattice simulations. Physical Review D, 2013, 88, .	1.6	42
38	Isospin Splittings in the Light-Baryon Octet from Lattice QCD and QED. Physical Review Letters, 2013, 111, 252001.	2.9	67
39	Fluctuations of conserved charges at finite temperature from lattice QCD. Journal of Physics: Conference Series, 2013, 432, 012012.	0.3	1
40	Report: Thermodynamics with $$2 + 1 + 1$$ Dynamical Quark Flavors. , 2013, , 65-72.		0
41	Nucleon scalar and tensor charges from lattice QCD with light Wilson quarks. Physical Review D, 2012, 86, .	1.6	60
42	QCD equation of state at nonzero chemical potential: continuum results with physical quark masses at order Î¼ 2. Journal of High Energy Physics, 2012, 2012, 1.	1.6	211
43	QCD thermodynamics with continuum extrapolated Wilson fermions I. Journal of High Energy Physics, 2012, 2012, 1.	1.6	46
44	High-precision scale setting in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	1.6	213
45	Sigma term and strangeness content of octet baryons. Physical Review D, 2012, 85, .	1.6	80
46	QCD thermodynamics with dynamical overlap fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 342-346.	1.5	22
47	The QCD phase diagram for external magnetic fields. Journal of High Energy Physics, 2012, 2012, 1.	1.6	528
48	Fluctuations of conserved charges at finite temperature from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	1.6	295
49	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 1123.	0.0	0
50	Transition temperature and the equation of state from lattice QCD, Wuppertal-Budapest results. Journal of Physics: Conference Series, 2011, 316, 012020.	0.3	8
51	QCD thermodynamics on the lattice and in the Hadron Resonance Gas model. Journal of Physics: Conference Series, 2011, 336, 012019.	0.3	4
52	Precision computation of the kaon bag parameter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 477-481.	1.5	76
53	Recent results on QCD thermodynamics: lattice QCD versus Hadron Resonance Gas model. Nuclear Physics A, 2011, 855, 253-256.	0.6	32
54	Lattice QCD at the physical point: simulation and analysis details. Journal of High Energy Physics, 2011, 2011, 1.	1.6	101

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55	Lattice QCD at the physical point: Light quark masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 265-268.	1.5	103
56	Correlations and fluctuations from lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124060.	1.4	15
57	Transition temperature and the equation of state from lattice QCD, Wuppertalâ€“Budapest results. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124101.	1.4	6
58	QCD equation of state from the lattice. , 2011, , .		1
59	Is there still any T c mystery in lattice QCD? Results with physical masses in the continuum limit III. Journal of High Energy Physics, 2010, 2010, 1.	1.6	659
60	The QCD equation of state with dynamical quarks. Journal of High Energy Physics, 2010, 2010, 1.	1.6	721
61	Ratio<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>F</mml:mi><mml:mi>K</mml:mi></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi>F</mml:mi> QCD. Physical Review D, 2010, 81, .	1.6	47
62	Scaling study of dynamical smeared-link clover fermions. Physical Review D, 2009, 79, .	1.6	31
63	The QCD transition temperature: results with physical masses in the continuum limit II. Journal of High Energy Physics, 2009, 2009, 088-088.	1.6	503
64	Topological tunnelling with dynamical overlap fermions. Computer Physics Communications, 2009, 180, 201-208.	3.0	10
65	QCD transition temperature: approaching the continuum on the lattice. Nuclear Physics A, 2009, 830, 805c-808c.	0.6	6
66	Numerical methods for the QCD overlap operator IV: Hybrid Monte Carlo. Computer Physics Communications, 2009, 180, 26-54.	3.0	16
67	A comparison of methods to calculate the chiral condensate with overlap fermions. Computer Physics Communications, 2008, 179, 181-183.	3.0	0
68	Ab Initio Determination of Light Hadron Masses. Science, 2008, 322, 1224-1227.	6.0	469
69	Simulation of full QCD using overlap fermions. Computer Physics Communications, 2007, 177, 249.	3.0	0
70	Improving Inversions of the Overlap Operator. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 856-858.	0.5	1
71	Numerical methods for the QCD overlap operator: III. Nested iterations. Computer Physics Communications, 2005, 165, 221-242.	3.0	20
72	Dynamical overlap simulations using HMC. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 841-843.	0.5	8