

Keh-Fei Liu

List of Publications by Year in descending order

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67
papers

1,989
citations

236925

25
h-index

243625

44
g-index

68
all docs

68
docs citations

68
times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of difference between u^+ and d^+ partons in the nucleon. Physical Review Letters, 1994, 72, 1790-1793.	7.8	133
2	Stochastic estimation with Z2 noise. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 130-136.	4.1	129
3	Proton Mass Decomposition from the QCD Energy Momentum Tensor. Physical Review Letters, 2018, 121, 212001.	7.8	102
4	Scalar glueball, scalar quarkonia, and their mixing. Physical Review D, 2006, 74, .	4.7	94
5	Lattice QCD at finite density via a new canonical approach. Physical Review D, 2005, 72, .	4.7	90
6	Parton distributions and lattice-QCD calculations: Toward 3D structure. Progress in Particle and Nuclear Physics, 2021, 121, 103908.	14.4	86
7	$\langle N \rangle$ and strangeness σ terms at the physical point with chiral fermions. Physical Review D, 2016, 94, .	4.7	75
8	The pion form factor in lattice QCD. Nuclear Physics B, 1989, 318, 319-336.	2.5	72
9	Pseudoscalar glueball mass from lattice QCD. Physical Review D, 2009, 79, .	4.7	69
10	Lattice study of light scalar tetraquarks with $1/m^2$ mixing. Physical Review D, 2009, 79, .	4.7	68
11	Are $\langle N \rangle$ and $\langle \sigma \rangle$ related? Physical Review D, 2010, 82, .	4.7	63
12	Parton degrees of freedom from the path-integral formalism. Physical Review D, 2000, 62, .	4.7	63
13	Gluon Quasi-Parton-Distribution Functions from Lattice QCD. Physical Review Letters, 2018, 121, 242001.	7.8	61
14	Quark spins and anomalous Ward identity. Physical Review D, 2018, 98, .	4.7	55
15	Nucleon strangeness form factors from $N_f=2+1$ clover fermion lattice QCD. Physical Review D, 2009, 80, .	4.7	52
16	Critical point of $N_f=3$ QCD from lattice simulations in the canonical ensemble. Physical Review D, 2011, 84, .	4.7	49
17	Glue Spin and Helicity in the Proton from Lattice QCD. Physical Review Letters, 2017, 118, 102001.	7.8	47
18	Finite density phase transition of QCD with $N_f=4$ and $N_f=2$ using canonical ensemble method. Physical Review D, 2010, 82, .	4.7	43
19	Charm and strange quark masses and $\langle \bar{q}q \rangle$ overlap fermions. Physical Review D, 2015, 92, .	4.7	42

#	ARTICLE	IF	CITATIONS
19	Lattice QCD and neutrino-nucleus scattering. European Physical Journal A, 2019, 55, 1.	2.5	41
20	Strange Quark Magnetic Moment of the Nucleon at the Physical Point. Physical Review Letters, 2017, 118, 042001.	7.8	37
21	The parton orbital angular momentum: Status and prospects. European Physical Journal A, 2016, 52, 1.	2.5	35
22	Nonperturbatively renormalized glue momentum fraction at the physical pion mass from lattice QCD. Physical Review D, 2018, 98, .	4.7	33
23	Towards the nucleon hadronic tensor from lattice QCD. Physical Review D, 2020, 101, .	4.7	31
24	Revisiting scalar glueballs. Physical Review D, 2015, 92, .	4.7	26
25	Stochastic method with low mode substitution for nucleon isovector matrix elements. Physical Review D, 2016, 93, .	4.7	25
26	Variance reduction and cluster decomposition. Physical Review D, 2018, 97, .	4.7	25
27	Constraints on charm-anticharm asymmetry in the nucleon from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135633.	4.1	25
28	Connected-Sea Partons. Physical Review Letters, 2012, 109, 252002.	7.8	24
29	Lattice calculation of nucleon isovector axial charge with improved currents. Physical Review D, 2017, 96, .	4.7	24
30	Lattice calculation of hadronic tensor of the nucleon. EPJ Web of Conferences, 2018, 175, 14014.	0.3	21
31	FINITE DENSITY ALGORITHM IN LATTICE QCD—A CANONICAL ENSEMBLE APPROACH. International Journal of Modern Physics B, 2002, 16, 2017-2032.	2.0	20
32	Nonperturbative renormalization of overlap quark bilinears on 2+1-flavor domain wall fermion configurations. Physical Review D, 2014, 90, .	4.7	20
33	Meson mass decomposition from lattice QCD. Physical Review D, 2015, 91, .	4.7	20
34	PHYSICS GOALS OF THE QCD TERAFLOP PROJECT. International Journal of Modern Physics C, 1991, 02, 829-947.	1.7	18
35	Sea quarks contribution to the nucleon magnetic moment and charge radius at the physical point. Physical Review D, 2017, 96, .	4.7	17
36	Evolution equations for connected and disconnected sea parton distributions. Physical Review D, 2017, 96, .	4.7	16

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37	On the momentum dependence of the flavor structure of the nucleon sea. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 411-414.	4.1	15
38	Strange and charm quark spins from the anomalous Ward identity. Physical Review D, 2017, 95, .	4.7	15
39	Nucleon isovector tensor charge from lattice QCD using chiral fermions. Physical Review D, 2020, 101, .	4.7	13
40	Proton mass decomposition and hadron cosmological constant. Physical Review D, 2021, 104, .	4.7	13
41	RI/MOM and RI/SMOM renormalization of overlap quark bilinears on domain wall fermion configurations. Physical Review D, 2018, 97, .	4.7	12
42	Pre-Town Meeting on spin physics at an Electron-Ion Collider. European Physical Journal A, 2017, 53, 1.	2.5	11
43	Pattern of Light Scalar Mesons. Progress of Theoretical Physics Supplement, 2007, 168, 160-167.	0.1	10
44	Orbital angular momentum and generalized transverse momentum distribution. Physical Review D, 2016, 93, .	4.7	10
45	Lattice calculation of pion form factors with overlap fermions. Physical Review D, 2021, 104, .	4.7	10
46	Baryons and chiral symmetry. International Journal of Modern Physics E, 2017, 26, 1740016.	1.0	9
47	Status on lattice calculations of the proton spin decomposition. AAPPs Bulletin, 2022, 32, 1.	6.1	9
48	Roper state from overlap fermions. Physical Review D, 2020, 101, .	4.7	8
49	Parton degrees of freedom in PDFs from the hadronic tensor and large momentum effective theory. Physical Review D, 2020, 102, .	4.7	8
50	Challenges of Lattice Calculation of Scalar Mesons. AIP Conference Proceedings, 2008, , .	0.4	7
51	Is the $\langle \mathbf{1} \hat{\mathbf{a}}^{\mathbf{2}} \mathbf{meson} \rangle$ a hybrid?. Physical Review D, 2012, 86, .	4.7	7
52	Perturbative renormalization and mixing of quark and glue energy-momentum tensors on the lattice. Physical Review D, 2017, 95, .	4.7	6
53	Ratio of strange to u/d momentum fraction in disconnected insertions. Physical Review D, 2020, 102, .	4.7	6
54	A Review of Pentaquark Calculations on the Lattice. International Journal of Modern Physics A, 2006, 21, 851-858.	1.5	5

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55	Quark and Glue Components of the Proton Spin from Lattice Calculation. International Journal of Modern Physics Conference Series, 2016, 40, 1660005.	0.7	5
56	Comparison of algorithms for matrix inversion with multi-quarks. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 993-996.	0.4	4
57	Flavor Structure of Intrinsic Nucleon Sea. Few-Body Systems, 2015, 56, 349-354.	1.5	4
58	Oscillatory behavior of the domain wall fermions revisited. Physical Review D, 2014, 89, .	4.7	3
59	Weak neutral current axial form factor using \overline{u} -nucleon scattering and lattice QCD inputs. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
60	The Roper Puzzle. , 2014, , .		3
61	Quark and glue momenta and angular momentum in the nucleon. , 2012, , .		2
62	Nucleon isovector scalar charge from overlap fermions. Physical Review D, 2021, 104, .	4.7	2
63	Panel Discussion on Scalar Mesons. AIP Conference Proceedings, 2008, , .	0.4	1
64	Quark and Gluon Orbital Angular Momentum: Where Are We?. Few-Body Systems, 2016, 57, 379-384.	1.5	0
65	Baryons and chiral symmetry. , 2017, , 199-214.		0
66	FINITE DENSITY ALGORITHM IN LATTICE QCD—A CANONICAL ENSEMBLE APPROACH. , 2002, , .		0
67	Introduction for Week III. , 2020, , .		0