

Kostas N Orginos

List of Publications by Year in descending order

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156
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156
all docs

156
docs citations

156
times ranked

2423
citing authors

#	ARTICLE	IF	CITATIONS
1	Transversity parton distribution function of the nucleon using the pseudodistribution approach. Physical Review D, 2022, 105, .	4.7	19
2	Nuclear matrix elements from lattice QCD for electroweak and beyond-Standard-Model processes. Physics Reports, 2021, 900, 1-74.	25.6	39
3	Distillation at high momentum. Physical Review D, 2021, 103, .	4.7	12
4	Neural-network analysis of Parton Distribution Functions from loffe-time pseudodistributions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	31
5	Low-energy scattering and effective interactions of two baryons at $\mu \ll \Lambda_{\text{QCD}}$ from lattice quantum chromodynamics. Physical Review D, 2021, 103, .	4.7	20
6	A.I. for nuclear physics. European Physical Journal A, 2021, 57, 1.	2.5	30
7	Lattice QCD Constraints on the Parton Distribution Functions of ^3He . Physical Review Letters, 2021, 126, 202001.	7.8	11
8	The continuum and leading twist limits of parton distribution functions in lattice QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
9	Towards high-precision parton distributions from lattice QCD via distillation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	17
10	Unpolarized gluon distribution in the nucleon from lattice quantum chromodynamics. Physical Review D, 2021, 104, .	4.7	25
11	Parton Distribution Functions from loffe Time Pseudodistributions from Lattice Calculations: Approaching the Physical Point. Physical Review Letters, 2020, 125, 232003.	7.8	49
12	F_2^{K} from MÃ¶bius domain-wall fermions solved on gradient-flowed HISQ ensembles. Physical Review D, 2020, 102, .	4.7	25
13	Pion valence quark distribution from current-current correlation in lattice QCD. Physical Review D, 2020, 102, .	4.7	65
14	Multigrid deflation for Lattice QCD. Journal of Computational Physics, 2020, 409, 109356.	3.8	7
15	Reconstructing parton distribution functions from loffe time data: from Bayesian methods to neural networks. Journal of High Energy Physics, 2019, 2019, 1.	4.7	80
16	Pion valence quark distribution from matrix element calculated in lattice QCD. Physical Review D, 2019, 99, .	4.7	113
17	Hadrons and nuclei. European Physical Journal A, 2019, 55, 1.	2.5	58
18	Parton distribution functions from loffe time pseudo-distributions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	66

#	ARTICLE	IF	CITATIONS
19	Pion valence structure from Ioffe-time parton pseudodistribution functions. <i>Physical Review D</i> , 2019, 100, .	4.7	98
20	Parton distributions and lattice QCD calculations: A community white paper. <i>Progress in Particle and Nuclear Physics</i> , 2018, 100, 107-160.	14.4	186
21	Scalar, Axial, and Tensor Interactions of Light Nuclei from Lattice QCD. <i>Physical Review Letters</i> , 2018, 120, 152002.	7.8	41
22	Nucleon axial coupling from Lattice QCD. <i>EPJ Web of Conferences</i> , 2018, 175, 01008.	0.3	7
23	Finite continuum quasi distributions from lattice QCD. <i>EPJ Web of Conferences</i> , 2018, 175, 06004.	0.3	3
24	Parton distribution functions on the lattice and in the continuum. <i>EPJ Web of Conferences</i> , 2018, 175, 06032.	0.3	26
25	Baryon magnetic moments: Symmetries and relations. <i>EPJ Web of Conferences</i> , 2018, 175, 06001.	0.3	1
26	Simulating the Weak Decay of the Neutron in a Femtoscale Universe with Near-Exascale Computing. , 2018, , .		6
27	Moments of Ioffe time parton distribution functions from non-local matrix elements. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	72
28	A per-cent-level determination of the nucleon axial coupling from quantum chromodynamics. <i>Nature</i> , 2018, 558, 91-94.	27.8	146
29	Deflation as a Method of Variance Reduction for Estimating the Trace of a Matrix Inverse. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A532-A558.	2.8	25
30	Isotensor Axial Polarizability and Lattice QCD Input for Nuclear Double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Decay Phenomenology. <i>Physical Review Letters</i> , 2017, 119, 062003.	7.8	49
31	On the Feynman-Hellmann theorem in quantum field theory and the calculation of matrix elements. <i>Physical Review D</i> , 2017, 96, .	4.7	45
32	The Möbius domain wall fermion algorithm. <i>Computer Physics Communications</i> , 2017, 220, 1-19.	7.5	47
33	Proton-Proton Fusion and Tritium $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Decay from Lattice Quantum Chromodynamics. <i>Physical Review Letters</i> , 2017, 119, 062002.	7.8	71
34	First lattice QCD study of the gluonic structure of light nuclei. <i>Physical Review D</i> , 2017, 96, .	4.7	31
35	Quasi parton distributions and the gradient flow. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	60
36	Baryon-baryon interactions and spin-flavor symmetry from lattice quantum chromodynamics. <i>Physical Review D</i> , 2017, 96, .	4.7	48

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37	Octet baryon magnetic moments from lattice QCD: Approaching experiment from a three-flavor symmetric point. Physical Review D, 2017, 95, .	4.7	22
38	Isovector charges of the nucleon from 2+1 -flavor QCD with clover fermions. Physical Review D, 2017, 95, .	4.7	39
39	Up, down, and strange nucleon axial form factors from lattice QCD. Physical Review D, 2017, 95, .	4.7	70
40	Lattice QCD exploration of parton pseudo-distribution functions. Physical Review D, 2017, 96, .	4.7	176
41	Double- $\langle \hat{I}^2 \rangle$ decay matrix elements from lattice quantum chromodynamics. Physical Review D, 2017, 96, .	4.7	47
42	Möbius domain-wall fermions on gradient-flowed dynamical HISQ ensembles. Physical Review D, 2017, 96, .	4.7	12
43	Controlling excited-state contamination in nucleon matrix elements. Physical Review D, 2016, 93, .	4.7	36
44	Unitary Limit of Two-Nucleon Interactions in Strong Magnetic Fields. Physical Review Letters, 2016, 116, 112301.	7.8	20
45	Locally smeared operator product expansions in scalar field theory. Physical Review D, 2015, 91, .	4.7	26
46	High-precision calculation of the strange nucleon electromagnetic form factors. Physical Review D, 2015, 92, .	4.7	54
47	Magnetic structure of light nuclei from lattice QCD. Physical Review D, 2015, 92, .	4.7	62
48	Two nucleon systems at $m_\pi \approx 450$ MeV on lattice QCD. Physical Review D, 2015, 92, .	4.7	92
49	Calculation of the $n \rightarrow p \gamma$ Radiative Capture Process. Physical Review Letters, 2015, 115, 132001.	7.8	68
50	Multiscale MonteCarlo equilibration: Pure Yang-Mills theory. Physical Review D, 2015, 92, .	4.7	26
51	Uncertainty quantification in lattice QCD calculations for nuclear physics. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034022.	3.6	19
52	Improved methods for the study of hadronic physics from lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034011.	3.6	6
53	Magnetic Moments of Light Nuclei from Lattice Quantum Chromodynamics. Physical Review Letters, 2014, 113, 252001.	7.8	62
54	Extending the eigCG algorithm to nonsymmetric Lanczos for linear systems with multiple right-hand sides. Numerical Linear Algebra With Applications, 2014, 21, 473-493.	1.6	9

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55	Charmed bottom baryon spectroscopy from lattice QCD. Physical Review D, 2014, 90, .	4.7	198
56	Interactions of charmed mesons with light pseudoscalar mesons from lattice QCD and implications on the nature of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:mrow style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:msubsup style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:mi style="font-size: 0.8em; vertical-align: middle;">D$	4.7	172
57	Nucleon-nucleon scattering parameters in the limit of SU(3) flavor symmetry. Physical Review C, 2013, 88, .	2.9	72
58	Light nuclei and hypernuclei from quantum chromodynamics in the limit of SU(3) flavor symmetry. Physical Review D, 2013, 87, .	4.7	172
59	Hierarchical Probing for Estimating the Trace of the Matrix Inverse on Toroidal Lattices. SIAM Journal of Scientific Computing, 2013, 35, S299-S322.	2.8	35
60	Nuclear correlation functions in lattice QCD. Physical Review D, 2013, 87, .	4.7	49
61	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:mi style="font-size: 0.8em; vertical-align: middle;">S$	4.7	47
62	Tetraquark bound states in the heavy-light heavy-light system. Physical Review D, 2012, 86, .	4.7	47
63	Hyperon-Nucleon Interactions from Quantum Chromodynamics and the Composition of Dense Nuclear Matter. Physical Review Letters, 2012, 109, 172001.	7.8	71
64	Lattice QCD at nonzero isospin chemical potential. Physical Review D, 2012, 86, .	4.7	67
65	Deuteron and exotic two-body bound states from lattice QCD. Physical Review D, 2012, 85, .	4.7	107
66	Lattice Gauge Theory for Nuclear Physics. Journal of Physics: Conference Series, 2012, 403, 012043.	0.4	0
67	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:mi style="font-size: 0.8em; vertical-align: middle;">\tilde{\Gamma}$	4.7	74
68	Charm-bottom baryon spectroscopy. , 2012, , .		0
69	Evidence for a Bound $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" style="font-size: 0.8em; vertical-align: middle;">\langle \text{mml:mi style="font-size: 0.8em; vertical-align: middle;">H$	7.8	210
70	A new approach for Delta form factors. AIP Conference Proceedings, 2011, , .	0.4	16
71	Lattice QCD and the Jefferson Lab Program. Journal of Physics: Conference Series, 2011, 299, 012007.	0.4	4
72	Heavy-baryon spectroscopy from lattice QCD. Computer Physics Communications, 2011, 182, 24-26.	7.5	6

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73	Nuclear physics from lattice QCD. Progress in Particle and Nuclear Physics, 2011, 66, 1-40.	14.4	126
74	Publisher's Note: High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses [Phys. Rev. D, 014507 (2011)]. Physical Review D, 2011, 84, .	4.7	3
75	PRESENT CONSTRAINTS ON THE H-DIBARYON AT THE PHYSICAL POINT FROM LATTICE QCD. Modern Physics Letters A, 2011, 26, 2587-2595.	1.2	61
76	Computing and Deflating Eigenvalues While Solving Multiple Right-Hand Side Linear Systems with an Application to Quantum Chromodynamics. SIAM Journal of Scientific Computing, 2010, 32, 439-462.	2.8	46
77	Nucleon structure from mixed action calculations using $2+1$ flavors of asqtad sea and domain wall valence fermions. Physical Review D, 2010, 82, .	4.7	195
78	Meson-baryon scattering lengths from mixed-action lattice QCD. Physical Review D, 2010, 81, .	4.7	41
79	Singly and doubly charmed $J^P = 1/2^+$ baryon spectrum from lattice QCD. Physical Review D, 2010, 81, .	4.7	41
80	High statistics analysis using anisotropic clover lattices: III. Baryon-baryon interactions. Physical Review D, 2010, 81, .	4.7	57
81	High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, .	4.7	69
82	Calculation of hyperon axial couplings from lattice QCD. Physical Review D, 2009, 79, .	4.7	48
83	Light hadron spectroscopy using domain wall valence quarks on an asqtad sea. Physical Review D, 2009, 79, .	4.7	137
84	Lattice calculation of the magnetic moments of Λ and Σ baryons with dynamical clover fermions. Physical Review D, 2009, 79, .	4.7	52
85	Bottom-hadron mass splittings from static-quark action on $2+1$ -flavor lattices. Physical Review D, 2009, 80, .	4.7	6
86	High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, .	4.7	58
87	Strange baryon electromagnetic form factors and SU(3) flavor symmetry breaking. Physical Review D, 2009, 79, .	4.7	32
88	Deflation for inversion with multiple right-hand sides in QCD. Journal of Physics: Conference Series, 2009, 180, 012073.	0.4	6
89	Kaon condensation with lattice QCD. Physical Review D, 2008, 78, .	4.7	70
90	Mixed meson masses with domain-wall valence and staggered sea fermions. Physical Review D, 2008, 77, .	4.7	28

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91	K+K+scattering length from lattice QCD. Physical Review D, 2008, 77, .	4.7	46
92	Multipion states in lattice QCD and the charged-pion condensate. Physical Review D, 2008, 78, .	4.7	82
93	Precise determination of the $\pi\pi$ scattering length from mixed-action lattice QCD. Physical Review D, 2008, 77, .	4.7	89
94	Nucleon generalized parton distributions from full lattice QCD. Physical Review D, 2008, 77, .	4.7	204
95	HADRONIC INTERACTIONS FROM LATTICE QCD. International Journal of Modern Physics E, 2008, 17, 1157-1218.	1.0	48
96	Multipion Systems in Lattice QCD and the Three-Pion Interaction. Physical Review Letters, 2008, 100, 082004.	7.8	98
97	<i>Ab initio</i> Hadron structure from lattice QCD. Journal of Physics: Conference Series, 2007, 78, 012019.	0.4	0
98	Strong-isospin violation in the neutron-proton mass difference from fully-dynamical lattice QCD and PQCD. Nuclear Physics B, 2007, 768, 38-50.	2.5	72
99	$\langle B B\rangle$ potentials in quenched lattice QCD. Physical Review D, 2007, 76, .	4.7	48
100	χ in full QCD with domain wall valence quarks. Physical Review D, 2007, 75, .	4.7	47
101	Hyperon-nucleon scattering from fully-dynamical lattice QCD. Nuclear Physics A, 2007, 794, 62-72.	1.5	83
102	The Gell-Mann-Okubo mass relation among baryons from fully-dynamical mixed-action lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 654, 20-26.	4.1	20
103	Lattice QCD and nuclear physics. European Physical Journal A, 2007, 31, 799-803.	2.5	1
104	Calculation of the neutron electric dipole moment with two dynamical flavors of domain wall fermions. Physical Review D, 2006, 73, .	4.7	51
105	$\pi\pi$ scattering in full QCD with domain-wall valence quarks. Physical Review D, 2006, 74, .	4.7	58
106	Innovations in lattice QCD algorithms. Journal of Physics: Conference Series, 2006, 46, 132-141.	0.4	2
107	Calculation of the nucleon axial charge in lattice QCD. Journal of Physics: Conference Series, 2006, 46, 152-156.	0.4	2
108	Majorana Fermions. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 191-198.	0.4	28

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109	Nucleon-Nucleon Scattering from Fully Dynamical Lattice QCD. Physical Review Letters, 2006, 97, 012001.	7.8	150
110	Nucleon Axial Charge in Full Lattice QCD. Physical Review Letters, 2006, 96, 052001.	7.8	130
111	KaonB-parameter from quenched domain-wall QCD. Physical Review D, 2006, 73, .	4.7	37
112	Nucleon structure functions with domain wall fermions. Physical Review D, 2006, 73, .	4.7	11
113	π - π scattering from fully-dynamical mixed-action lattice QCD. Physical Review D, 2006, 73, .	4.7	106
114	Hadron Structure from Lattice QCD. International Journal of Modern Physics A, 2006, 21, 720-725.	1.5	2
115	Understanding hadron structure from lattice QCD in the SciDAC era. Journal of Physics: Conference Series, 2005, 16, 150-159.	0.4	2
116	First principles calculations of nucleon and pion form factors: understanding the building blocks of nuclear matter from lattice QCD. Journal of Physics: Conference Series, 2005, 16, 174-178.	0.4	5
117	Neutron Electric Dipole Moment with Domain Wall Quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 411-413.	0.4	6
118	Hadronic physics with domain-wall valence and improved staggered sea quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 255-260.	0.4	64
119	Nucleon structure with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 396-398.	0.4	16
120	Möbius Fermions: Improved Domain Wall Chiral Fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 686-688.	0.4	48
121	HADRONIC STRUCTURE FROM LATTICE QCD. International Journal of Modern Physics A, 2005, 20, 4554-4561.	1.5	1
122	Lattice QCD with two dynamical flavors of domain wall fermions. Physical Review D, 2005, 72, .	4.7	52
123	Deconfining phase transition as a matrix model of renormalized Polyakov loops. Physical Review D, 2004, 70, .	4.7	143
124	Domain wall fermions with improved gauge actions. Physical Review D, 2004, 69, .	4.7	67
125	Scalar meson in dynamical and partially quenched two-flavor QCD: Lattice results and chiral loops. Physical Review D, 2004, 70, .	4.7	58
126	Nucleon axial charge and structure functions with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 296-298.	0.4	8

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127	Chiral logs with staggered fermions. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 233-235.	0.4	5
128	Calculation of weak matrix elements in domain-wall QCD with the DBW2 gauge action. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 362-364.	0.4	2
129	Nucleon matrix elements with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 386-388.	0.4	3
130	Nucleon axial charge from quenched lattice QCD with domain wall fermions and DBW2 gauge action. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 389-391.	0.4	2
131	Quenched scalar-meson correlator with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 822-824.	0.4	16
132	Nucleon axial charge from quenched lattice QCD with domain wall fermions. Physical Review D, 2003, 68, .	4.7	63
133	Lattice calculation of heavy-light decay constants with two flavors of dynamical quarks. Physical Review D, 2002, 66, .	4.7	49
134	Determining hybrid content of heavy quarkonia using lattice nonrelativistic QCD. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 382-384.	0.4	4
135	Heavy-light decay constants with three dynamical flavors. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 412-414.	0.4	9
136	Thermodynamics with 3 and 2+1 flavors of improved staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 429-431.	0.4	3
137	Nuclear effects in prompt photon production at the Large Hadron Collider. Nuclear Physics A, 2002, 700, 523-538.	1.5	10
138	Nucleon axial charge from quenched lattice QCD with domain wall fermions and improved gauge action. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 302-304.	0.4	11
139	Chiral properties of domain wall fermions with improved gauge actions. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 721-723.	0.4	15
140	fB for various actions: approaching the continuum limit with dynamical fermions. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 346-349.	0.4	16
141	Quark loop effects with an improved staggered fermion action. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 237-241.	0.4	0
142	Zero temperature string breaking with staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 546-549.	0.4	2
143	Zero temperature string breaking in lattice quantum chromodynamics. Physical Review D, 2001, 64, .	4.7	30
144	Prompt photons from relativistic heavy ion collisions. Physical Review C, 2001, 63, .	2.9	14

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145	Measurement of the hybrid content of heavy quarkonia using lattice nonrelativistic QCD. Physical Review D, 2001, 64, .	4.7	9
146	QCD spectrum with three quark flavors. Physical Review D, 2001, 64, .	4.7	328
147	Lattice results for the decay constant of heavy-light vector mesons. Physical Review D, 2001, 65, .	4.7	13
148	Static quark potential in three flavor QCD. Physical Review D, 2000, 62, .	4.7	97
149	Scaling tests of the improved Kogut-Susskind quark action. Physical Review D, 2000, 61, .	4.7	77
150	Variants of fattening and flavor symmetry restoration. Physical Review D, 1999, 60, .	4.7	257
151	Testing improved actions for dynamical Kogut-Susskind quarks. Physical Review D, 1998, 59, .	4.7	152
152	Magnetic monopole loop for the Yang-Mills instanton. Physical Review D, 1997, 55, 6313-6326.	4.7	47
153	Critical behavior of simplicial chiral models. Physical Review D, 1996, 53, 3230-3246.	4.7	5
154	Monte Carlo study of the Yukawa coupled two-spin Ising model. Physica A: Statistical Mechanics and Its Applications, 1995, 221, 554-564.	2.6	1
155	The chiral extension of lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 42-48.	0.4	6
156	Extrapolation methods for the Dirac inverter in hybrid Monte Carlo. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 855-857.	0.4	4