

Kostas N Orginos

List of Publications by Year in descending order

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156
papers

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citations

28274

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53230

85
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156
all docs

156
docs citations

156
times ranked

2423
citing authors

#	ARTICLE	IF	CITATIONS
1	QCD spectrum with three quark flavors. Physical Review D, 2001, 64, .	4.7	328
2	Variants of fattening and flavor symmetry restoration. Physical Review D, 1999, 60, .	4.7	257
3	Evidence for a Bound H Dibaryon from Lattice QCD. Physical Review Letters, 2011, 106, 162001.	7.8	210
4	Nucleon generalized parton distributions from full lattice QCD. Physical Review D, 2008, 77, .	4.7	204
5	Charmed bottom baryon spectroscopy from lattice QCD. Physical Review D, 2014, 90, .	4.7	198
6	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
7	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
8	Lattice QCD exploration of parton pseudo-distribution functions. Physical Review D, 2017, 96, .	4.7	176
9	Light nuclei and hypernuclei from quantum chromodynamics in the limit of SU(3) flavor symmetry. Physical Review D, 2013, 87, .	4.7	172
10	Testing improved actions for dynamical Kogut-Susskind quarks. Physical Review D, 1998, 59, .	4.7	152
11	Nucleon-Nucleon Scattering from Fully Dynamical Lattice QCD. Physical Review Letters, 2006, 97, 012001.	7.8	150
12	A per-cent-level determination of the nucleon axial coupling from quantum chromodynamics. Nature, 2018, 558, 91-94.	27.8	146
13	Deconfining phase transition as a matrix model of renormalized Polyakov loops. Physical Review D, 2004, 70, .	4.7	143
14	Light hadron spectroscopy using domain wall valence quarks on an asqtad sea. Physical Review D, 2009, 79, .	4.7	137
15	Interactions of charmed mesons with light pseudoscalar mesons from lattice QCD and implications on the nature of the D_s^0 T_{ETQq1} 1.0784314 $rgBT$ $/Overlock$ 10 Tf 50 167 Td (stretchy="false")	7.8	130
16	Nucleon Axial Charge in Full Lattice QCD. Physical Review Letters, 2006, 96, 052001.	7.8	130
17	Nuclear physics from lattice QCD. Progress in Particle and Nuclear Physics, 2011, 66, 1-40.	14.4	126
18	Pion valence quark distribution from matrix element calculated in lattice QCD. Physical Review D, 2019, 99, .	4.7	113

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19	Deuteron and exotic two-body bound states from lattice QCD. Physical Review D, 2012, 85, .	4.7	107
20	πN scattering from fully-dynamical mixed-action lattice QCD. Physical Review D, 2006, 73, .	4.7	106
21	Multipion Systems in Lattice QCD and the Three-Pion Interaction. Physical Review Letters, 2008, 100, 082004.	7.8	98
22	Pion valence structure from loffe-time parton pseudodistribution functions. Physical Review D, 2019, 100, .	4.7	98
23	Static quark potential in three flavor QCD. Physical Review D, 2000, 62, .	4.7	97
24	Two nucleon systems at πN scattering length from mixed-action lattice QCD. Physical Review D, 2015, 92, .	4.7	92
25	Precise determination of the πN scattering length from mixed-action lattice QCD. Physical Review D, 2008, 77, .	4.7	89
26	Hyperon-nucleon scattering from fully-dynamical lattice QCD. Nuclear Physics A, 2007, 794, 62-72.	1.5	83
27	Multipion states in lattice QCD and the charged-pion condensate. Physical Review D, 2008, 78, .	4.7	82
28	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
29	Scaling tests of the improved Kogut-Susskind quark action. Physical Review D, 2000, 61, .	4.7	77
30	Singly and doubly charmed πN spectrum from lattice QCD. Physical Review D, 2010, 81, .	4.7	77
31	πN scattering phase shift from lattice QCD. Physical Review D, 2007, 75, 034004.	4.7	74
32	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
33	Nucleon-nucleon scattering parameters in the limit of SU(3) flavor symmetry. Physical Review C, 2013, 88, .	2.9	72
34	Moments of loffe time parton distribution functions from non-local matrix elements. Journal of High Energy Physics, 2018, 2018, 1.	4.7	72
35	Hyperon-Nucleon Interactions from Quantum Chromodynamics and the Composition of Dense Nuclear Matter. Physical Review Letters, 2012, 109, 172001.	7.8	71
36	Proton-Proton Fusion and Tritium β Decay from Lattice Quantum Chromodynamics. Physical Review Letters, 2017, 119, 062002.	7.8	71

#	ARTICLE	IF	CITATIONS
37	Kaon condensation with lattice QCD. Physical Review D, 2008, 78, .	4.7	70
38	Up, down, and strange nucleon axial form factors from lattice QCD. Physical Review D, 2017, 95, .	4.7	70
39	High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, .	4.7	69
40	Ab Initio Calculation of the $\langle n \rangle_p$ Radiative Capture Process. Physical Review Letters, 2015, 115, 132001.	7.8	68
41	Domain wall fermions with improved gauge actions. Physical Review D, 2004, 69, .	4.7	67
42	Lattice QCD at nonzero isospin chemical potential. Physical Review D, 2012, 86, .	4.7	67
43	Parton distribution functions from loffe time pseudo-distributions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	66
44	Pion valence quark distribution from current-current correlation in lattice QCD. Physical Review D, 2020, 102, .	4.7	65
45	Hadronic physics with domain-wall valence and improved staggered sea quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 255-260.	0.4	64
46	Nucleon axial charge from quenched lattice QCD with domain wall fermions. Physical Review D, 2003, 68, .	4.7	63
47	Magnetic Moments of Light Nuclei from Lattice Quantum Chromodynamics. Physical Review Letters, 2014, 113, 252001.	7.8	62
48	Magnetic structure of light nuclei from lattice QCD. Physical Review D, 2015, 92, .	4.7	62
49	PRESENT CONSTRAINTS ON THE H-DIBARYON AT THE PHYSICAL POINT FROM LATTICE QCD. Modern Physics Letters A, 2011, 26, 2587-2595.	1.2	61
50	Quasi parton distributions and the gradient flow. Journal of High Energy Physics, 2017, 2017, 1.	4.7	60
51	Scalar meson in dynamical and partially quenched two-flavor QCD: Lattice results and chiral loops. Physical Review D, 2004, 70, .	4.7	58
52	πK scattering in full QCD with domain-wall valence quarks. Physical Review D, 2006, 74, .	4.7	58
53	High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, .	4.7	58
54	Hadrons and nuclei. European Physical Journal A, 2019, 55, 1.	2.5	58

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55	High statistics analysis using anisotropic clover lattices: III. Baryon-baryon interactions. Physical Review D, 2010, 81, .	4.7	57
56	High-precision calculation of the strange nucleon electromagnetic form factors. Physical Review D, 2015, 92, .	4.7	54
57	Lattice QCD with two dynamical flavors of domain wall fermions. Physical Review D, 2005, 72, .	4.7	52
58	Lattice calculation of the magnetic moments of Λ and Σ baryons with dynamical clover fermions. Physical Review D, 2009, 79, .	4.7	52
59	Calculation of the neutron electric dipole moment with two dynamical flavors of domain wall fermions. Physical Review D, 2006, 73, .	4.7	51
60	Lattice calculation of heavy-light decay constants with two flavors of dynamical quarks. Physical Review D, 2002, 66, .	4.7	49
61	Nuclear correlation functions in lattice QCD. Physical Review D, 2013, 87, .	4.7	49
62	Isotensor Axial Polarizability and Lattice QCD Input for Nuclear Double- Λ Decay Phenomenology. Physical Review Letters, 2017, 119, 062003.	7.8	49
63	Parton Distribution Functions from Ioffe Time Pseudodistributions from Lattice Calculations: Approaching the Physical Point. Physical Review Letters, 2020, 125, 232003.	7.8	49
64	Möbius Fermions: Improved Domain Wall Chiral Fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 686-688.	0.4	48
65	B potentials in quenched lattice QCD. Physical Review D, 2007, 76, .	4.7	48
66	HADRONIC INTERACTIONS FROM LATTICE QCD. International Journal of Modern Physics E, 2008, 17, 1157-1218.	1.0	48
67	Calculation of hyperon axial couplings from lattice QCD. Physical Review D, 2009, 79, .	4.7	48
68	Baryon-baryon interactions and spin-flavor symmetry from lattice quantum chromodynamics. Physical Review D, 2017, 96, .	4.7	48
69	Magnetic monopole loop for the Yang-Mills instanton. Physical Review D, 1997, 55, 6313-6326.	4.7	47
70	χ in full QCD with domain wall valence quarks. Physical Review D, 2007, 75, .	4.7	47
71	Tetraquark bound states in the heavy-light heavy-light system. Physical Review D, 2012, 86, .	4.7	47
72	The Möbius domain wall fermion algorithm. Computer Physics Communications, 2017, 220, 1-19.	7.5	47

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73	Double- $\langle \bar{\psi} \psi \rangle$ decay matrix elements from lattice quantum chromodynamics. Physical Review D, 2017, 96, .	4.7	47
74	K+K+scattering length from lattice QCD. Physical Review D, 2008, 77, .	4.7	46
75	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
76	On the Feynman-Hellmann theorem in quantum field theory and the calculation of matrix elements. Physical Review D, 2017, 96, .	4.7	45
77	Meson-baryon scattering lengths from mixed-action lattice QCD. Physical Review D, 2010, 81, .	4.7	41
78	Scalar, Axial, and Tensor Interactions of Light Nuclei from Lattice QCD. Physical Review Letters, 2018, 120, 152002.	7.8	41
79	Isovector charges of the nucleon from 2+1 -flavor QCD with clover fermions. Physical Review D, 2017, 95, .	4.7	39
80	Nuclear matrix elements from lattice QCD for electroweak and beyond-Standard-Model processes. Physics Reports, 2021, 900, 1-74.	25.6	39
81	KaonB-parameter from quenched domain-wall QCD. Physical Review D, 2006, 73, .	4.7	37
82	Controlling excited-state contamination in nucleon matrix elements. Physical Review D, 2016, 93, .	4.7	36
83	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
84	Strange baryon electromagnetic form factors and SU(3) flavor symmetry breaking. Physical Review D, 2009, 79, .	4.7	32
85	First lattice QCD study of the gluonic structure of light nuclei. Physical Review D, 2017, 96, .	4.7	31
86	Neural-network analysis of Parton Distribution Functions from loffe-time pseudodistributions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	31
87	Zero temperature string breaking in lattice quantum chromodynamics. Physical Review D, 2001, 64, .	4.7	30
88	A.I. for nuclear physics. European Physical Journal A, 2021, 57, 1.	2.5	30
89	MÃbius Fermions. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 191-198.	0.4	28
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	Locally smeared operator product expansions in scalar field theory. Physical Review D, 2015, 91, .	4.7	26
92	Multiscale MonteCarlo equilibration: Pure Yang-Mills theory. Physical Review D, 2015, 92, .	4.7	26
93	Parton distribution functions on the lattice and in the continuum. EPJ Web of Conferences, 2018, 175, 06032.	0.3	26
94	Deflation as a Method of Variance Reduction for Estimating the Trace of a Matrix Inverse. SIAM Journal of Scientific Computing, 2017, 39, A532-A558.	2.8	25
95	$\frac{F}{K}$ from Möbius domain-wall fermions solved on gradient-flowed HISQ ensembles. Physical Review D, 2020, 102, .	4.7	25
96	The continuum and leading twist limits of parton distribution functions in lattice QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
97	Unpolarized gluon distribution in the nucleon from lattice quantum chromodynamics. Physical Review D, 2021, 104, .	4.7	25
98	$S(U)$ Physical Review D, 2012, 86, .	4.7	25
99	Octet baryon magnetic moments from lattice QCD: Approaching experiment from a three-flavor symmetric point. Physical Review D, 2017, 95, .	4.7	22
100	The Gell-MannOkubo 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
101	Unitary Limit of Two-Nucleon Interactions in Strong Magnetic Fields. Physical Review Letters, 2016, 116, 112301.	7.8	20
102	Low-energy scattering and effective interactions of two baryons at m from lattice quantum chromodynamics. Physical Review D, 2021, 103, .	4.7	20
103	Uncertainty quantification in lattice QCD calculations for nuclear physics. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034022.	3.6	19
104	Transversity parton distribution function of the nucleon using the pseudodistribution approach. Physical Review D, 2022, 105, .	4.7	19
105	Towards high-precision parton distributions from lattice QCD via distillation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	17
106	fB for various actions: approaching the continuum limit with dynamical fermions. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 346-349.	0.4	16
107	Quenched scalar-meson correlator with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 822-824.	0.4	16
108	Nucleon structure with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 396-398.	0.4	16

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127	Bottom-hadron mass splittings from static-quark action on 2+1-flavor lattices. <i>Physical Review D</i> , 2009, 80, .	4.7	6
128	Deflation for inversion with multiple right-hand sides in QCD. <i>Journal of Physics: Conference Series</i> , 2009, 180, 012073.	0.4	6
129	Heavy-baryon spectroscopy from lattice QCD. <i>Computer Physics Communications</i> , 2011, 182, 24-26.	7.5	6
130	Improved methods for the study of hadronic physics from lattice QCD. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 034011.	3.6	6
131	Simulating the Weak Death of the Neutron in a Femtoscale Universe with Near-Exascale Computing., 2018, , .		6
132	Critical behavior of simplicial chiral models. <i>Physical Review D</i> , 1996, 53, 3230-3246.	4.7	5
133	Chiral logs with staggered fermions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 119, 233-235.	0.4	5
134	First principles calculations of nucleon and pion form factors: understanding the building blocks of nuclear matter from lattice QCD. <i>Journal of Physics: Conference Series</i> , 2005, 16, 174-178.	0.4	5
135	Extrapolation methods for the Dirac inverter in hybrid Monte Carlo. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1995, 42, 855-857.	0.4	4
136	Determining hybrid content of heavy quarkonia using lattice nonrelativistic QCD. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 106-107, 382-384.	0.4	4
137	Lattice QCD and the Jefferson Lab Program. <i>Journal of Physics: Conference Series</i> , 2011, 299, 012007.	0.4	4
138	Thermodynamics with 3 and 2+1 flavors of improved staggered quarks. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 106-107, 429-431.	0.4	3
139	Nucleon matrix elements with domain wall fermions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 119, 386-388.	0.4	3
140	Publisher's Note: High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses [<i>Phys. Rev. D</i> 84 (2011)]. <i>Physical Review D</i> , 2011, 84, .	4.7	3
141	Finite continuum quasi distributions from lattice QCD. <i>EPJ Web of Conferences</i> , 2018, 175, 06004.	0.3	3
142	Zero temperature string breaking with staggered quarks. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001, 94, 546-549.	0.4	2
143	Calculation of weak matrix elements in domain-wall QCD with the DBW2 gauge action. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 119, 362-364.	0.4	2
144	Nucleon axial charge from quenched lattice QCD with domain wall fermions and DBW2 gauge action. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 119, 389-391.	0.4	2

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145	Understanding hadron structure from lattice QCD in the SciDAC era. Journal of Physics: Conference Series, 2005, 16, 150-159.	0.4	2
146	Innovations in lattice QCD algorithms. Journal of Physics: Conference Series, 2006, 46, 132-141.	0.4	2
147	Calculation of the nucleon axial charge in lattice QCD. Journal of Physics: Conference Series, 2006, 46, 152-156.	0.4	2
148	Hadron Structure from Lattice QCD. International Journal of Modern Physics A, 2006, 21, 720-725.	1.5	2
149	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
150	HADRONIC STRUCTURE FROM LATTICE QCD. International Journal of Modern Physics A, 2005, 20, 4554-4561.	1.5	1
151	Lattice QCD and nuclear physics. European Physical Journal A, 2007, 31, 799-803.	2.5	1
152	Baryon magnetic moments: Symmetries and relations. EPJ Web of Conferences, 2018, 175, 06001.	0.3	1
153	Quark loop effects with an improved staggered fermion action. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 237-241.	0.4	0
154	<i>Ab initio</i> Hadron structure from lattice QCD. Journal of Physics: Conference Series, 2007, 78, 012019.	0.4	0
155	Lattice Gauge Theory for Nuclear Physics. Journal of Physics: Conference Series, 2012, 403, 012043.	0.4	0
156	Charm-bottom baryon spectroscopy. , 2012, , .		0