

Constantia Alexandrou

List of Publications by Year in descending order

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181
all docs

181
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times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	Transversity GPDs of the proton from lattice QCD. Physical Review D, 2022, 105, .	4.7	15
2	Lattice QCD Study of Transverse-Momentum Dependent Soft Function. Physical Review Letters, 2022, 128, 062002.	7.8	30
3	Scalar, vector, and tensor form factors for the pion and kaon from lattice QCD. Physical Review D, 2022, 105, .	4.7	8
4	Nucleon axial form factors from lattice QCD. SciPost Physics Proceedings, 2022, , .	0.4	1
5	Mellin moments $\langle \mathcal{M}_n \rangle$ and $\langle \mathcal{M}_n^T \rangle$ for the pion and k. Physical Review D, 2021, 103, .	4.7	10
6	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	4.7	35
7	Flavor Decomposition for the Proton Helicity Parton Distribution Functions. Physical Review Letters, 2021, 126, 102003.	7.8	24
8	Neutron electric dipole moment using lattice QCD simulations at the physical point. Physical Review D, 2021, 103, .	4.7	12
9	Modeling the evolution of COVID-19 via compartmental and particle-based approaches: Application to the Cyprus case. PLoS ONE, 2021, 16, e0250709.	2.5	2
10	Lattice continuum-limit study of nucleon parton quasidistribution functions. Physical Review D, 2021, 103, .	4.7	32
11	P -wave nucleon-pion scattering amplitude in the \hat{P} Pion and kaon T_1 FTOc1.1.0.784314 r gBT /Overlock 10 Tf 50 322 Td (stretchy="false")	4.7	16
12	$\langle \mathcal{M}_n^T \rangle$ from lattice QCD and PDF reconstruction from Mellin moments. Physical Review D, 2021, 104, .	4.7	22
13	Flavor decomposition of the nucleon unpolarized, helicity, and transversity parton distribution functions from lattice QCD simulations. Physical Review D, 2021, 104, .	4.7	21
14	Quark flavor decomposition of the nucleon axial form factors. Physical Review D, 2021, 104, .	4.7	8
15	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
16	Ratio of kaon and pion leptonic decay constants with $\frac{f_K}{f_\pi} = \frac{f_K}{f_\pi} \frac{m_\pi}{m_K} \frac{m_K}{m_\pi}$ Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	4.7	12
17	Quark and Gluon Momentum Fractions in the Pion from Lattice QCD. Physical Review Letters, 2021, 127, 252001.	7.8	5
18	Nucleon strange electromagnetic form factors. Physical Review D, 2020, 101, .	4.7	16

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19	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	32
20	Ruling Out the Massless Up-Quark Solution to the Strong $C \times P$ Problem by Computing the Topological Mass Contribution with Lattice QCD. Physical Review Letters, 2020, 125, 232001.	7.8	9
21	Parton distribution functions from lattice QCD using Bayes-Gauss-Fourier transforms. Physical Review D, 2020, 102, .	4.7	15
22	Parton distribution functions of \int on the lattice. Physical Review D, 2020, 102, .	4.7	34
23	Nucleon axial, tensor, and scalar charges and \tilde{f} -terms in lattice QCD. Physical Review D, 2020, 102, .	4.7	68
24	Complete flavor decomposition of the spin and momentum fraction of the proton using lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	69
25	Model-independent determination of the nucleon charge radius from lattice QCD. Physical Review D, 2020, 101, .	4.7	15
26	Tetraquark interpolating fields in a lattice QCD investigation of the $s \times D$ $4 \times$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 447 Td (stretchy="false")</math>		
27	Unpolarized and Helicity Generalized Parton Distributions of the Proton within Lattice QCD. Physical Review Letters, 2020, 125, 262001.	7.8	63
28	Comparison of topological charge definitions in Lattice QCD. European Physical Journal C, 2020, 80, 1.	3.9	24
29	Recent progress on the study of nucleon structure from lattice QCD and future perspectives. SciPost Physics Proceedings, 2020, , .	0.4	0
30	Proton and neutron electromagnetic form factors from lattice QCD. Physical Review D, 2019, 100, .	4.7	58
31	Systematic uncertainties in parton distribution functions from lattice QCD simulations at the physical point. Physical Review D, 2019, 99, .	4.7	67
32	and x x^2 of the pion PDF from lattice QCD with \hat{Y} Multigrad approach in shifted linear systems for the non-degenerated twisted mass operator. Computer Physics Communications, 2019, 236, 51-64.	4.7	34
33	Physical Review D, 2019, 99, .	7.5	11
34	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
35	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	4.7	18
36	\hat{t} transition and the \hat{k} radiative decay width from lattice QCD. Physical Review D, 2018, 98, .	4.7	31

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55	First physics results at the physical pion mass from $\langle N_f \rangle = 2 \langle N_f \rangle$ Wilson twisted mass fermions at maximal twist. Physical Review D, 2017, 95, .	4.7	44
56	Gluon momentum fraction of the nucleon from lattice QCD. Physical Review D, 2017, 96, .	4.7	30
57	Nucleon scalar and tensor charges using lattice QCD simulations at the physical value of the pion mass. Physical Review D, 2017, 95, .	4.7	37
58	Round table: Nucleon tomography. What can we do better today than Rutherford 100 years ago?. EPJ Web of Conferences, 2017, 137, 01003.	0.3	2
59	Updated lattice results for parton distributions. Physical Review D, 2017, 96, .	4.7	100
60	Title is missing!. , 2017, , .		0
61	Adaptive aggregation-based domain decomposition multigrid for twisted mass fermions. Physical Review D, 2016, 94, .	4.7	36
62	Study of decuplet baryon resonances from lattice QCD. Physical Review D, 2016, 93, .	4.7	13
63	Direct Evaluation of the Quark Content of Nucleons from Lattice QCD at the Physical Point. Physical Review Letters, 2016, 116, 252001.	7.8	94
64	Neutron electric dipole moment using $\langle N_f \rangle = 2 \langle N_f \rangle$ mass fermions. Physical Review D, 2016, 93, .	4.7	16
65	Axial charges of hyperons and charmed baryons using $\langle N_f \rangle = 2 \langle N_f \rangle$ mass fermions. Physical Review D, 2016, 94, .	4.7	18
66	Position space method for the nucleon magnetic moment in lattice QCD. Physical Review D, 2016, 94, .	4.7	7
67	Parton Distribution Functions from Lattice QCD. Few-Body Systems, 2016, 57, 621-626.	1.5	3
68	Disconnected diagrams with twisted-mass fermions. , 2016, , .		3
69	Nucleon Observables as Probes for Physics Beyond the Standard Model. , 2016, , 97-105.		0
70	Strangeness of the nucleon from lattice QCD. Physical Review D, 2015, 91, .	4.7	12
71	Lattice calculation of parton distributions. Physical Review D, 2015, 92, .	4.7	137
72	Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass. Physical Review D, 2015, 92, .	4.7	115

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73	Topological charge using cooling and the gradient flow. Physical Review D, 2015, 92, .	4.7	42
74	First moment of the flavour octet nucleon parton distribution function using lattice QCD. Journal of High Energy Physics, 2015, 2015, 1.	4.7	5
75	Novel analysis method for excited states in lattice QCD: The nucleon case. Physical Review D, 2015, 91, .	4.7	31
76	Hadron structure from lattice QCD. Nuclear and Particle Physics Proceedings, 2015, 261-262, 202-217.	0.5	8
77	Nucleon structure from lattice QCD – recent achievements and perspectives. EPJ Web of Conferences, 2014, 73, 01013.	0.3	10
78	Disconnected quark loop contributions to nucleon observables in lattice QCD. Physical Review D, 2014, 89, .	4.7	64
79	Baryon spectrum with $\langle N_f \rangle = \langle \text{Tr} M^{-1} \rangle$ mass fermions. Physical Review D, 2014, 90, .	4.7	112
80	Nucleon excited states in $\langle N_f \rangle$ QCD. Physical Review D, 2014, 89, .	4.7	121
81	A stochastic method for computing hadronic matrix elements. European Physical Journal C, 2014, 74, 1.	3.9	16
82	Evaluation of disconnected quark loops for hadron structure using GPUs. Computer Physics Communications, 2014, 185, 1370-1382.	7.5	28
83	Hadron properties from lattice QCD. Journal of Physics: Conference Series, 2014, 562, 012007.	0.4	3
84	Investigation of light and heavy tetraquark candidates using lattice QCD. Journal of Physics: Conference Series, 2014, 503, 012031.	0.4	9
85	Lattice investigation of the scalar mesons $a_0(980)$ and \tilde{f}'_0 using four-quark operators. Journal of High Energy Physics, 2013, 2013, 1.	4.7	34
86	Hadron physics and lattice QCD. , 2013, , .		3
87	Nucleon form factors and moments of generalized parton distributions using $\langle N_f \rangle = \langle \text{Tr} M^{-1} \rangle$ mass fermions. Physical Review D, 2014, 90, .	4.7	89
88	Determination of \tilde{f}'_0 -resonance parameters from lattice QCD. Physical Review D, 2013, 88, .	4.7	18
89	Determination of the \tilde{f}'_0 resonance parameters from lattice QCD. Physical Review D, 2013, 87, .	4.7	18
90	Scalar Mesons and Tetraquarks from Twisted Mass Lattice QCD. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 847.	0.1	12

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91	Nucleon to \hat{I}^+ and \hat{I}^0 form factors in lattice QCD. , 2012, , .		3
92	Renormalization constants of local operators for Wilson type improved fermions. Physical Review D, 2012, 86, .	4.7	36
93	Strange and charm baryon masses with two flavors of dynamical twisted mass fermions. Physical Review D, 2012, 86, .	4.7	38
94	<i>Colloquium</i>: The Shape of Hadrons. Reviews of Modern Physics, 2012, 84, 1231-1251.	45.6	19
95	Evaluation of fermion loops applied to the calculation of the mass and the nucleon scalar and electromagnetic form factors. Computer Physics Communications, 2012, 183, 1215-1224.	7.5	22
96	Hadron structure in lattice QCD. Progress in Particle and Nuclear Physics, 2012, 67, 101-116.	14.4	8
97	Lattice investigation of the tetraquark candidates $a_0(980)$ and κ . , 2012, , .		2
98	Moments of nucleon generalized parton distributions from lattice QCD. Physical Review D, 2011, 83, .	4.7	44
99	Nucleon electromagnetic form factors in twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	50
100	Renormalization constants for 2-twist operators in twisted mass QCD. Physical Review D, 2011, 83, .	4.7	36
101	Precision study of excited state effects in nucleon matrix elements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 89-93.	4.1	34
102	Axial nucleon form factors from lattice QCD. Physical Review D, 2011, 83, .	4.7	69
103	<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mi>\hat{I}^0</mi><mo></mo><mn>1232</mn><mo></mo>$T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2.57 Td (stretchy="false")$		
104	Nucleon to \hat{I}^+ transition form factors with N_c wall fermions. Physical Review D, 2011, 83, .	4.7	34
105	Nucleon form factors with N_c^2 twisted mass fermions. , 2010, , .		0
106	Electromagnetic form factors of the \hat{I}^0 in lattice QCD. Physical Review D, 2010, 82, .	4.7	31
107	Baryon structure from Lattice QCD. Chinese Physics C, 2009, 33, 1093-1101.	3.7	3
108	Quark transverse charge densities in the from lattice QCD. Nuclear Physics A, 2009, 825, 115-144.	1.5	59

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109	$\langle \bar{N} \gamma \hat{1} N \rangle$ baryon electromagnetic form factors in lattice QCD. Physical Review D, 2009, 79, .	4.7	50
110	Low-lying baryon spectrum with two dynamical twisted mass fermions. Physical Review D, 2009, 80, .	4.7	64
111	Nucleon to delta electromagnetic transition form factors in lattice QCD. Physical Review D, 2008, 77, .	4.7	62
112	Light baryon masses with dynamical twisted mass fermions. Physical Review D, 2008, 78, .	4.7	62
113	Study of hadron deformation in lattice QCD. Physical Review D, 2008, 78, .	4.7	13
114	N to $\hat{1}$ ELECTROMAGNETIC AND AXIAL FORM FACTORS IN FULL QCD. , 2008, , .		0
115	Secondary Orbital Implant Insertion in an Anophthalmic Patient after Orbital Reconstruction. Orbit, 2007, 26, 275-277.	0.8	0
116	N -to- $\hat{1}$ Axial Transition Form Factors from Lattice QCD. Physical Review Letters, 2007, 98, 052003.	7.8	41
117	Axial nucleon and nucleon to $\langle \bar{N} \gamma \hat{1} N \rangle$ form factors and the Goldberger-Treiman relations from lattice QCD. Physical Review D, 2007, 76, .	4.7	63
118	Hadron Deformation and Form Factors from Lattice QCD. AIP Conference Proceedings, 2007, , .	0.4	3
119	N and N to $\hat{1}$ TRANSITION FORM FACTORS FROM Lattice QCD. , 2007, , .		0
120	Lattice study of pentaquark states. Physical Review D, 2006, 73, .	4.7	11
121	Evidence for Diquarks in Lattice QCD. Physical Review Letters, 2006, 97, 222002.	7.8	96
122	Nucleon electromagnetic form factors from lattice QCD. Physical Review D, 2006, 74, .	4.7	81
123	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
124	Momentum dependence of the N to $\hat{1}$ transition form factors. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 293-295.	0.4	3
125	The pentaquark potential, mass and density-density correlator. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 275-277.	0.4	7
126	N -to- $\hat{1}$ Electromagnetic-Transition Form Factors from Lattice QCD. Physical Review Letters, 2005, 94, 021601.	7.8	84

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127	Static tetraquark and pentaquark potentials. Physical Review D, 2005, 71, .	4.7	31
128	$N \rightarrow \pi$ electromagnetic transition form factors from lattice QCD. Physical Review D, 2004, 69, .	4.7	38
129	Hadron deformation from lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 1-8.	0.4	8
130	The matter density distribution for mesons and baryons. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 221-223.	0.4	4
131	$\hat{N} \rightarrow \hat{\pi}$ transition form factors in quenched and $NF = 2$ QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 302-304.	0.4	3
132	Gauge-invariant two- and three- density correlators. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 422-424.	0.4	4
133	Hadron wave functions and the issue of nucleon deformation. Nuclear Physics A, 2003, 721, C907-C910.	1.5	7
134	Calculation of the N to $\hat{\pi}$ electromagnetic transition matrix element. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 413-415.	0.4	3
135	The ground state of three quarks. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 667-669.	0.4	109
136	Matter and pseudoscalar densities in lattice QCD. Physical Review D, 2003, 68, .	4.7	10
137	Probing hadron wave functions in lattice QCD. Physical Review D, 2002, 66, .	4.7	31
138	Static three-quark $SU(3)$ and four-quark $SU(4)$ potentials. Physical Review D, 2002, 65, .	4.7	81
139	Gluon propagator without lattice Gribov copies on a finer lattice. Physical Review D, 2002, 65, .	4.7	33
140	Laplacian gauge gluon propagator in $SU(N_c)$. Physical Review D, 2002, 65, .	4.7	17
141	Static three- and four-quark potentials. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 403-405.	0.4	5
142	The static baryon potential. Nuclear Physics, Section B, Proceedings Supplements, 2002, 109, 153-157.	0.4	8
143	Gluon propagator without lattice Gribov copies. Physical Review D, 2001, 63, .	4.7	41
144	What can we learn from QED at large couplings?. AIP Conference Proceedings, 2000, , .	0.4	1

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145	Efficiency of the UV-filtered multiboson algorithm. Physical Review D, 2000, 61, .	4.7	13
146	Nonperturbative mass renormalization in quenched QED from the worldline variational approach. Physical Review D, 2000, 62, .	4.7	8
147	Deconfinement phase transition in one-flavor QCD. Physical Review D, 1999, 60, .	4.7	54
148	Worldline path integral for the massive Dirac propagator: A four-dimensional approach. Physical Review A, 1999, 59, 1762-1776.	2.5	28
149	One-flavour QCD at finite temperature. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 406-408.	0.4	11
150	Variational treatment of quenched QED using the worldline technique. Nuclear Physics A, 1998, 631, 635-639.	1.5	4
151	Variational field theoretic approach to relativistic meson-nucleon scattering. Nuclear Physics A, 1998, 628, 427-457.	1.5	5
152	Thermodynamics of 1-flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 435-437.	0.4	4
153	VARIATIONAL CALCULATION OF RELATIVISTIC MESON-NUCLEON SCATTERING IN ZEROth ORDER. International Journal of Modern Physics E, 1996, 05, 681-716.	1.0	5
154	Nonperturbative treatment of the N-body system with dynamical mesons. Zeitschrift für Physik A, 1995, 353, 149-165.	0.9	3
155	The content of the D-meson at infinite coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 363, 93-100.	4.1	0
156	Heavy-light baryonic mass splittings from the lattice. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 297-299.	0.4	2
157	Full QCD with the Lüscher local bosonic action. Nuclear Physics B, 1995, 456, 296-312.	2.5	20
158	Nonperturbative dressing of nucleons by mesons. Zeitschrift für Physik A, 1994, 350, 131-144.	0.9	2
159	Beautiful baryons from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 340-346.	4.1	16
160	Scaling study of the leptonic decay constants of heavy-light mesons: a consumers report on improvement factors. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 459-461.	0.4	0
161	The leptonic decay constants of ρ mesons and the lattice resolution. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 659-668.	1.5	14
162	The static approximation of heavy-light quark systems. A detailed lattice study. Nuclear Physics B, 1994, 414, 815-855.	2.5	123

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163	Results in the static approximation. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 453-456.	0.4	0
164	Bounds on $ B $ from lattice QCD. Nuclear Physics B, 1992, 374, 263-276.	2.5	15
165	Stochastic solution to highly nonlocal actions: the polaron problem. Physics Reports, 1992, 215, 1-48.	25.6	50
166	A scaling analysis of heavy-light-meson properties. Nuclear Physics, Section B, Proceedings Supplements, 1992, 26, 387-390.	0.4	4
167	B-meson properties from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 256, 60-67.	4.1	118
168	Scaling behavior and volume dependence of B-meson properties. Nuclear Physics, Section B, Proceedings Supplements, 1991, 20, 493-497.	0.4	3
169	NUMERICAL SOLUTION TO THE OPTICAL POLARON PROBLEM FOR A WIDE RANGE OF COUPLINGS. Modern Physics Letters B, 1991, 05, 613-620.	1.9	8
170	Momentum distribution of nuclei in a one-dimensional nuclear model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 125-129.	4.1	2
171	Meson-meson scattering in the quark-string model. Nuclear Physics A, 1990, 518, 723-751.	1.5	16
172	Fourier path integrals, partial averaging, and the polaron problem. Physical Review Letters, 1990, 65, 2615-2618.	7.8	28
173	Effects of short range \hat{V} interaction on observables of the \hat{H} system. Physical Review C, 1990, 42, 517-529.	2.9	15
174	Comparison of mean-field and exact Monte Carlo solutions of a one-dimensional nuclear model. Physical Review C, 1989, 39, 1076-1087.	2.9	17
175	Stochastic calculation of tunneling in systems with many degrees of freedom. Physical Review C, 1988, 37, 1513-1526.	2.9	19
176	Structure of S from nuclear production experiments. Physical Review C, 1987, 36, 732-740.	2.9	0
177	The excitation by light pulses of mechanical vibrations in solids. Applied Physics Letters, 1980, 36, 736-738.	3.3	6