Martha Constantinou

List of Publications by Year
in descending order

113 papers	3,556 citations	109321 35 h-index	144013 57 g-index
116 all docs	116 docs citations	116 times ranked	1086 citing authors

#	Article	IF	Citations
1	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
2	A complete non-perturbative renormalization prescription for quasi-PDFs. Nuclear Physics B, 2017, 923, 394-415.	2.5	137
3	A Guide to Light-Cone PDFs from Lattice QCD: An Overview of Approaches, Techniques, and Results. Advances in High Energy Physics, 2019, 2019, 1-68.	1.1	127
4	Light-Cone Parton Distribution Functions from Lattice QCD. Physical Review Letters, 2018, 121, 112001.	7.8	119
5	Perturbative renormalization of quasi-parton distribution functions. Physical Review D, 2017, 96, .	4.7	116
6	Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass. Physical Review D, 2015, 92, .	4.7	115
7	Updated lattice results for parton distributions. Physical Review D, 2017, 96, .	4.7	100
8	Nucleon Spin and Momentum Decomposition Using Lattice QCD Simulations. Physical Review Letters, 2017, 119, 142002.	7.8	95
9	Direct Evaluation of the Quark Content of Nucleons from Lattice QCD at the Physical Point. Physical Review Letters, 2016, 116, 252001.	7.8	94
10	Transversity parton distribution functions from lattice QCD. Physical Review D, 2018, 98, .	4.7	91
11	Nucleon form factors and moments of generalized parton distributions using $N_f = 2 + 1 + 1$ twisted mass fermions. Physical Review D	4.7	89
12	Non-perturbative renormalization of quark bilinear operators with $N_f = 2$ (tmQCD) Wilson fermions and the tree-level improved gauge action. Journal of High Energy Physics, 2010, 2010, 1.	4.7	88
13	Parton distributions and lattice-QCD calculations: Toward 3D structure. Progress in Particle and Nuclear Physics, 2021, 121, 103908.	14.4	86
14	Nucleon axial form factors using $N_f = 2$ twisted mass fermions with a physical value of the pion mass. Physical Review D, 2017, 96, .	4.7	75
15	Axial nucleon form factors from lattice QCD. Physical Review D, 2011, 83, .	4.7	69
16	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
17	Nucleon axial, tensor, and scalar charges and $Ïƒ$-terms in lattice QCD. Physical Review D, 2020, 102, .	4.7	68
18	Systematic uncertainties in parton distribution functions from lattice QCD simulations at the physical point. Physical Review D, 2019, 99, .	4.7	67

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19	Disconnected quark loop contributions to nucleon observables in lattice QCD. Physical Review D, 2014, 89, .	4.7	64
20	Unpolarized and Helicity Generalized Parton Distributions of the Proton within Lattice QCD. Physical Review Letters, 2020, 125, 262001.	7.8	63
21	Magnetic susceptibility of QCD at zero and at finite temperature from the lattice. Physical Review D, 2012, 86, .	4.7	58
22	Proton and neutron electromagnetic form factors from lattice QCD. Physical Review D, 2019, 100, .	4.7	58
23	Nucleon electromagnetic form factors in twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	50
24	The x-dependence of hadronic parton distributions: A review on the progress of lattice QCD. European Physical Journal A, 2021, 57, 77.	2.5	49
25	?(a2) corrections to the one-loop propagator and bilinears of clover fermions with Symanzik improved gluons. Journal of High Energy Physics, 2009, 2009, 064-064.	4.7	47
26	Renormalization functions for Nf=2 and Nf=4 twisted mass fermions. Physical Review D, 2017, 95, .	4.7	46
27	Moments of nucleon generalized parton distributions from lattice QCD. Physical Review D, 2011, 83, .	4.7	44
28	First physics results at the physical pion mass from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn></mml:math> Wilson twisted mass fermions at maximal twist. Physical Review D, 2017, 95, .	4.7	44
29	Nucleon electromagnetic form factors using lattice simulations at the physical point. Physical Review D, 2017, 96, .	4.7	42
30	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
31	Renormalization constants for 2-twist operators in twisted mass QCD. Physical Review D, 2011, 83, .	4.7	36
32	Renormalization constants of local operators for Wilson type improved fermions. Physical Review D, 2012, 86, .	4.7	36
33	Confronting lattice parton distributions with global QCD analysis. Physical Review D, 2021, 103, .	4.7	35
34	Flavor nonsinglet parton distribution functions from lattice QCD at physical quark masses via the pseudodistribution approach. Physical Review D, 2021, 103, .	4.7	35
35	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	4.7	35
36	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

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37	$\langle x\rangle$ and $\langle x^2\rangle$ of the pion PDF from lattice QCD with ...	4.7	34
38	Parton distribution functions of Π^+ on the lattice. Physical Review D, 2020, 102, .	4.7	34
39	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	32
40	Insights on proton structure from lattice QCD: The twist-3 parton distribution function $g_T(x)$. Physical Review D, 2020, 102, .	4.7	32
41	Lattice continuum-limit study of nucleon parton quasidistribution functions. Physical Review D, 2021, 103, .	4.7	32
42	Renormalization of local quark-bilinear operators for Nf=3 flavors of stout link nonperturbative clover fermions. Physical Review D, 2015, 91, .	4.7	31
43	Gluon momentum fraction of the nucleon from lattice QCD. Physical Review D, 2017, 96, .	4.7	30
44	One-loop matching for the twist-3 parton distribution $g_T(x)$. Physical Review D, 2020, 102, .	4.7	30
45	Lattice QCD Study of Transverse-Momentum Dependent Soft Function. Physical Review Letters, 2022, 128, 062002.	7.8	30
46	The role of zero-mode contributions in the matching for the twist-3 PDFs $e(x)$ and $h_L(x)$. Physical Review D...	4.7	29
47	Evaluation of disconnected quark loops for hadron structure using GPUs. Computer Physics Communications, 2014, 185, 1370-1382.	7.5	28
48	Neutron electric dipole moment using N_f mass fermions. Physical Review D, 2016, 93, .	4.7	26
49	One-loop renormalization of staple-shaped operators in continuum and lattice regularizations. Physical Review D, 2019, 99, .	4.7	24
50	Flavor Decomposition for the Proton Helicity Parton Distribution Functions. Physical Review Letters, 2021, 126, 102003.	7.8	24
51	Pion and kaon $\langle x^3\rangle$ from lattice QCD and PDF reconstruction from Mellin moments. Physical Review D, 2021, 104, .	4.7	22
52	BK-parameter from Nf=2 twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	21
53	Flavor decomposition of the nucleon unpolarized, helicity, and transversity parton distribution functions from lattice QCD simulations. Physical Review D, 2021, 104, .	4.7	21
54	Topological susceptibility from twisted mass fermions using spectral projectors and the gradient flow. Physical Review D, 2018, 97, .	4.7	20

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55	Perturbatively improving regularization-invariant momentum scheme renormalization constants. Physical Review D, 2013, 87, .	4.7	19
56	Singlet versus nonsinglet perturbative renormalization of fermion bilinears. Physical Review D, 2016, 94, .	4.7	19
57	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
58	Parton distribution functions beyond leading twist from lattice QCD: The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>h</mml:mi><mml:mi>L</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> case. Physical Review D, 2021, 104, .	4.7	19
59	Measurement of the neutron charge radius and the role of its constituents. Nature Communications, 2021, 12, 1759.	12.8	18
60	Two interacting charged particles in an Aharonov-Bohm ring: Bound state transitions, symmetry breaking, persistent currents, and Berryâ€™s phase. Physical Review B, 2004, 70, .	3.2	17
61	A stochastic method for computing hadronic matrix elements. European Physical Journal C, 2014, 74, 1.	3.9	16
62	Computation of parton distributions from the quasi-PDF approach at the physical point. EPJ Web of Conferences, 2018, 175, 14008.	0.3	16
63	Nucleon strange electromagnetic form factors. Physical Review D, 2020, 101, .	4.7	16
64	Transversity GPDs of the proton from lattice QCD. Physical Review D, 2022, 105, .	4.7	15
65	Strange nucleon electromagnetic form factors from lattice QCD. Physical Review D, 2018, 97, .	4.7	14
66	Kâ†’Ï€ matrix elements of the chromomagnetic operator on the lattice. Physical Review D, 2018, 97, .	4.7	14
67	Charge radii of the nucleon from its flavor dependent Dirac form factors. European Physical Journal A, 2021, 57, 1.	2.5	14
68	Nucleon isovector tensor charge from lattice QCD using chiral fermions. Physical Review D, 2020, 101, .	4.7	13
69	Strangeness of the nucleon from lattice QCD. Physical Review D, 2015, 91, .	4.7	12
70	Renormalization of the chromomagnetic operator on the lattice. Physical Review D, 2015, 92, .	4.7	12
71	Hadron Structure. , 2015, , .		11
72	Mellin moments <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">âŸ¨</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">âŸ©</mml:mo></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">âŸ¨</mml:mo><mml:msup><mml:mrow><mml:mi>x</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr stretchy="false">âŸ©</mml:mo></mml:mrow></mml:math> for the pion and k. Physical Review D, 2021, 103, .	4.7	10

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73	Improved perturbation theory for improved lattice actions. Physical Review D, 2006, 74, .	4.7	9
74	Two-loop additive mass renormalization with clover fermions and Symanzik improved gluons. Physical Review D, 2008, 77, .	4.7	8
75	Perturbative renormalization functions of local operators for staggered fermions with stout improvement. Physical Review D, 2013, 88, .	4.7	8
76	Quark flavor decomposition of the nucleon axial form factors. Physical Review D, 2021, 104, .	4.7	8
77	Scalar, vector, and tensor form factors for the pion and kaon from lattice QCD. Physical Review D, 2022, 105, .	4.7	8
78	Position space method for the nucleon magnetic moment in lattice QCD. Physical Review D, 2016, 94, .	4.7	7
79	First moment of the flavour octet nucleon parton distribution function using lattice QCD. Journal of High Energy Physics, 2015, 2015, 1.	4.7	5
80	Perturbative renormalization factors and $O(a2)$ corrections for lattice four-fermion operators with improved fermion/gluon actions. Physical Review D, 2011, 83, .	4.7	4
81	Recent progress in hadron structure from Lattice QCD. , 2016, , .		3
82	Disconnected diagrams with twisted-mass fermions. , 2016, , .		3
83	Nucleon spin structure from lattice QCD. , 2018, , .		3
84	Twist-3 partonic distributions from lattice QCD. SciPost Physics Proceedings, 2022, , .	0.4	3
85	Progress in computing parton distribution functions from the quasi-PDF approach. EPJ Web of Conferences, 2018, 175, 06021.	0.3	2
86	Renormalization of Flavor Singlet and Nonsinglet Fermion Bilinear Operators. , 2015, , .		2
87	Nucleon spin and quark content at the physical point. , 2017, , .		2
88	Magnetic-field-induced localization in networks with the T3 geometry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 302, 39-47.	2.1	1
89	Renormalization and mixing in lattice QCD: The case of the chromomagnetic operator. Journal of Physics: Conference Series, 2014, 562, 012002.	0.4	1
90	New Physics Searches from Nucleon Matrix Elements in Lattice QCD. EPJ Web of Conferences, 2017, 137, 08003.	0.3	1

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91	Perturbative Renormalization of Wilson line operators. EPJ Web of Conferences, 2018, 175, 06025.	0.3	1
92	Nucleon transversity generalized form factors with twisted mass fermions. , 2014, , .		1
93	Parton Distributions from Lattice QCD with momentum smearing. , 2017, , .		1
94	Quasi-PDFs with twisted mass fermions. , 2020, , .		1
95	The QCD transition in external magnetic fields. , 2013, , .		1
96	Extraction of the isovector magnetic form factor of the nucleon at zero momentum. , 2015, , .		1
97	Zero modes and matching for the twist-3 PDFs. SciPost Physics Proceedings, 2022, , .	0.4	1
98	Exciton in an Aharonovâ€"Bohm ring: an exactly soluble interacting mesoscopic system. Philosophical Magazine, 2006, 86, 2511-2528.	1.6	0
99	Women in physics in Cyprus: A first report. AIP Conference Proceedings, 2015, , .	0.4	0
100	Improving perturbation theory with cactus diagrams. , 2006, , .		0
101	Generalized parton distributions of the nucleon from twisted mass QCD. , 2010, , .		0
102	Renormalization constants for one-derivative fermion operators in twisted mass QCD. , 2011, , .		0
103	Excited state Effects in Nucleon Matrix Element Calculations. , 2012, , .		0
104	The quark contents of the nucleon and their implication for dark matter search. , 2014, , .		0
105	The chromomagnetic operator on the lattice. , 2014, , .		0
106	Perturbative renormalization of staggered fermion operators with stout improvement: Application to the magnetic susceptibility of QCD. , 2014, , .		0
107	Perturbative and non-perturbative renormalization results of the Chromomagnetic Operator on the Lattice. , 2015, , .		0
108	Nucleon electromagnetic form factors from twisted mass lattice QCD. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
109	Results on the disconnected contributions for hadron structure. , 2015, , .		0
110	Recent results for the proton spin decomposition from lattice QCD. , 2016, , .		0
111	Renormalization Issues of quasi-PDFs. , 2018, , .		0
112	Quasi-PDFs from Twisted mass fermions at the physical point. , 2019, , .		0
113	Light-cone PDFs from lattice QCD. , 2019, , .		0