

# Martha Constantinou

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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	Zero modes and matching for the twist-3 PDFs. SciPost Physics Proceedings, 2022, , .	0.4	1
5	Twist-3 partonic distributions from lattice QCD. SciPost Physics Proceedings, 2022, , .	0.4	3
6	Confronting lattice parton distributions with global QCD analysis. Physical Review D, 2021, 103, .	4.7	35
7	Mellin moments $\langle x \rangle$ and Mellin moments $\langle x^2 \rangle$ for the pion and kaon. Physical Review D, 2021, 103, .	4.7	10
8	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
9	Flavor nonsinglet parton distribution functions from lattice QCD at physical quark masses via the pseudodistribution approach. Physical Review D, 2021, 103, .	4.7	35
10	Charge radii of the nucleon from its flavor dependent Dirac form factors. European Physical Journal A, 2021, 57, 1.	2.5	14
11	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	4.7	35
12	Measurement of the neutron charge radius and the role of its constituents. Nature Communications, 2021, 12, 1759.	12.8	18
13	Flavor Decomposition for the Proton Helicity Parton Distribution Functions. Physical Review Letters, 2021, 126, 102003.	7.8	24
14	Lattice continuum-limit study of nucleon parton quasidistribution functions. Physical Review D, 2021, 103, .	4.7	32
15	Pion and kaon Mellin moments $\langle x^3 \rangle$ from lattice QCD and PDF reconstruction from Mellin moments. Physical Review D, 2021, 104, .	4.7	22
16	Flavor decomposition of the nucleon unpolarized, helicity, and transversity parton distribution functions from lattice QCD simulations. Physical Review D, 2021, 104, .	4.7	21
17	Parton distributions and lattice-QCD calculations: Toward 3D structure. Progress in Particle and Nuclear Physics, 2021, 121, 103908.	14.4	86
18	Quark flavor decomposition of the nucleon axial form factors. Physical Review D, 2021, 104, .	4.7	8

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19	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
20	Parton distribution functions beyond leading twist from lattice QCD: The $\langle h_L \rangle$ case. Physical Review D, 2021, 104, .	4.7	19
21	Nucleon strange electromagnetic form factors. Physical Review D, 2020, 101, .	4.7	16
22	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	32
23	Nucleon isovector tensor charge from lattice QCD using chiral fermions. Physical Review D, 2020, 101, .	4.7	13
24	Insights on proton structure from lattice QCD: The twist-3 parton distribution function $\langle g_T \rangle$ . Physical Review D, 2020, 102, .	4.7	32
25	Parton distribution functions of $\hat{\Gamma}$ on the lattice. Physical Review D, 2020, 102, .	4.7	34
26	One-loop matching for the twist-3 parton distribution $\langle g_T \rangle$ . Physical Review D, 2020, 102, .	4.7	30
27	Nucleon axial, tensor, and scalar charges and $\langle f \rangle$ -terms in lattice QCD. Physical Review D, 2020, 102, .	4.7	68
28	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
29	The role of zero-mode contributions in the matching for the twist-3 PDFs $\langle e \rangle$ and $\langle h_L \rangle$ . Physical Review D, 2020, 102, .	4.7	29
30	Unpolarized and Helicity Generalized Parton Distributions of the Proton within Lattice QCD. Physical Review Letters, 2020, 125, 262001.	7.8	63
31	Quasi-PDFs with twisted mass fermions. , 2020, , .		1
32	Proton and neutron electromagnetic form factors from lattice QCD. Physical Review D, 2019, 100, .	4.7	58
33	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
34	Systematic uncertainties in parton distribution functions from lattice QCD simulations at the physical point. Physical Review D, 2019, 99, .	4.7	67
35	One-loop renormalization of staple-shaped operators in continuum and lattice regularizations. Physical Review D, 2019, 99, .	4.7	24
36	$\langle \hat{\Gamma} \rangle$ and $\langle \hat{\Gamma} \rangle^2$ of the pion PDF from lattice QCD with $\langle \hat{\Gamma} \rangle$ . Physical Review D, 2019, 99, .	4.7	34



#	ARTICLE	IF	CITATIONS
55	First physics results at the physical pion mass from $\langle N_f \rangle = \langle \text{tr} [D^{-1}] \rangle$ 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	Perturbative renormalization of quasi-parton distribution functions. Physical Review D, 2017, 96, .	4.7	116
59	New Physics Searches from Nucleon Matrix Elements in Lattice QCD. EPJ Web of Conferences, 2017, 137, 08003.	0.3	1
60	Updated lattice results for parton distributions. Physical Review D, 2017, 96, .	4.7	100
61	Parton Distributions from Lattice QCD with momentum smearing. , 2017, , .		1
62	Nucleon spin and quark content at the physical point. , 2017, , .		2
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 $\langle N_f \rangle = \langle \text{tr} [D^{-1}] \rangle$ mass fermions. Physical Review D, 2016, 93, .	4.7	26
65	Singlet versus nonsinglet perturbative renormalization of fermion bilinears. Physical Review D, 2016, 94, .	4.7	19
66	Position space method for the nucleon magnetic moment in lattice QCD. Physical Review D, 2016, 94, .	4.7	7
67	Recent progress in hadron structure from Lattice QCD. , 2016, , .		3
68	Disconnected diagrams with twisted-mass fermions. , 2016, , .		3
69	Recent results for the proton spin decomposition from lattice QCD. , 2016, , .		0
70	Strangeness of the nucleon from lattice QCD. Physical Review D, 2015, 91, .	4.7	12
71	Renormalization of the chromomagnetic operator on the lattice. Physical Review D, 2015, 92, .	4.7	12
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	First moment of the flavour octet nucleon parton distribution function using lattice QCD. Journal of High Energy Physics, 2015, 2015, 1.	4.7	5
74	Women in physics in Cyprus: A first report. AIP Conference Proceedings, 2015, , .	0.4	0
75	Renormalization of local quark-bilinear operators for Nf=3 flavors of stout link nonperturbative clover fermions. Physical Review D, 2015, 91, .	4.7	31
76	Hadron Structure. , 2015, , .		11
77	Renormalization of Flavor Singlet and Nonsinglet Fermion Bilinear Operators. , 2015, , .		2
78	Perturbative and non-perturbative renormalization results of the Chromomagnetic Operator on the Lattice. , 2015, , .		0
79	Extraction of the isovector magnetic form factor of the nucleon at zero momentum. , 2015, , .		1
80	Nucleon electromagnetic form factors from twisted mass lattice QCD. , 2015, , .		0
81	Results on the disconnected contributions for hadron structure. , 2015, , .		0
82	Disconnected quark loop contributions to nucleon observables in lattice QCD. Physical Review D, 2014, 89, .	4.7	64
83	A stochastic method for computing hadronic matrix elements. European Physical Journal C, 2014, 74, 1.	3.9	16
84	Evaluation of disconnected quark loops for hadron structure using GPUs. Computer Physics Communications, 2014, 185, 1370-1382.	7.5	28
85	Renormalization and mixing in lattice QCD: The case of the chromomagnetic operator. Journal of Physics: Conference Series, 2014, 562, 012002.	0.4	1
86	Nucleon transversity generalized form factors with twisted mass fermions. , 2014, , .		1
87	The quark contents of the nucleon and their implication for dark matter search. , 2014, , .		0
88	The chromomagnetic operator on the lattice. , 2014, , .		0
89	Perturbative renormalization of staggered fermion operators with stout improvement: Application to the magnetic susceptibility of QCD. , 2014, , .		0
90	Perturbatively improving regularization-invariant momentum scheme renormalization constants. Physical Review D, 2013, 87, .	4.7	19

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91	form factors and moments of generalized parton distributions using $\langle N \rangle = \langle \boldsymbol{f} \rangle + \langle \boldsymbol{1} \rangle$ twisted mass fermions. Physical Review D, 2013, 88, .	4.7	89
92	Perturbative renormalization functions of local operators for staggered fermions with stout improvement. Physical Review D, 2013, 88, .	4.7	8
93	The QCD transition in external magnetic fields. , 2013, , .		1
94	Renormalization constants of local operators for Wilson type improved fermions. Physical Review D, 2012, 86, .	4.7	36
95	Magnetic susceptibility of QCD at zero and at finite temperature from the lattice. Physical Review D, 2012, 86, .	4.7	58
96	Excited state Effects in Nucleon Matrix Element Calculations. , 2012, , .		0
97	Moments of nucleon generalized parton distributions from lattice QCD. Physical Review D, 2011, 83, .	4.7	44
98	Perturbative renormalization factors and $O(a^2)$ corrections for lattice four-fermion operators with improved fermion/gluon actions. Physical Review D, 2011, 83, .	4.7	4
99	Nucleon electromagnetic form factors in twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	50
100	BK-parameter from $N_f=2$ twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	21
101	Renormalization constants for 2-twist operators in twisted mass QCD. Physical Review D, 2011, 83, .	4.7	36
102	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
103	Axial nucleon form factors from lattice QCD. Physical Review D, 2011, 83, .	4.7	69
104	Renormalization constants for one-derivative fermion operators in twisted mass QCD. , 2011, , .		0
105	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
106	Generalized parton distributions of the nucleon from twisted mass QCD. , 2010, , .		0
107	$O(a^2)$ 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
108	Two-loop additive mass renormalization with clover fermions and Symanzik improved gluons. Physical Review D, 2008, 77, .	4.7	8

#	ARTICLE	IF	CITATIONS
109	Improved perturbation theory for improved lattice actions. Physical Review D, 2006, 74, .	4.7	9
110	Exciton in an Aharonov-Bohm ring: an exactly soluble interacting mesoscopic system. Philosophical Magazine, 2006, 86, 2511-2528.	1.6	0
111	Improving perturbation theory with cactus diagrams. , 2006, , .		0
112	Two interacting charged particles in an Aharonov-Bohm ring: Bound state transitions, symmetry breaking, persistent currents, and Berry's phase. Physical Review B, 2004, 70, .	3.2	17
113	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