Martha Constantinou

List of Publications by Citations

89 papers	2,337 citations	29 h-index	45 g-index
116 ext. papers	3,017 ext. citations	4.8 avg, IF	5.65 L-index

#	Paper	IF	Citations
89	Parton distributions and lattice QCD calculations: A community white paper. *Progress in Particle and Nuclear Physics*, **2018**, 100, 107-160	10.6	119
88	A complete non-perturbative renormalization prescription for quasi-PDFs. *Nuclear Physics B*, **2017**, 923, 394-415	2.8	111
87	Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass. *Physical Review D*, **2015**, 92,	4.9	100
86	Perturbative renormalization of quasi-parton distribution functions. *Physical Review D*, **2017**, 96,	4.9	89
85	Light-Cone Parton Distribution Functions from Lattice QCD. *Physical Review Letters*, **2018**, 121, 112001	7.4	85
84	Updated lattice results for parton distributions. *Physical Review D*, **2017**, 96,	4.9	82
83	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	5.4	79
82	Nucleon form factors and moments of generalized parton distributions using Nf=2+1+1 twisted mass fermions. *Physical Review D*, **2013**, 88,	4.9	75
81	Direct Evaluation of the Quark Content of Nucleons from Lattice QCD at the Physical Point. *Physical Review Letters*, **2016**, 116, 252001	7.4	74
80	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	73
79	Nucleon Spin and Momentum Decomposition Using Lattice QCD Simulations. *Physical Review Letters*, **2017**, 119, 142002	7.4	65
78	Axial nucleon form factors from lattice QCD. *Physical Review D*, **2011**, 83,	4.9	64
77	Disconnected quark loop contributions to nucleon observables in lattice QCD. *Physical Review D*, **2014**, 89,	4.9	59
76	Transversity parton distribution functions from lattice QCD. *Physical Review D*, **2018**, 98,	4.9	59
75	Nucleon axial form factors using Nf=2 twisted mass fermions with a physical value of the pion mass. *Physical Review D*, **2017**, 96,	4.9	49
74	Nucleon electromagnetic form factors in twisted mass lattice QCD. *Physical Review D*, **2011**, 83,	4.9	46
73	Magnetic susceptibility of QCD at zero and at finite temperature from the lattice. *Physical Review D* , **2012**, 86,	4.9	45

72	Systematic uncertainties in parton distribution functions from lattice QCD simulations at the physical point. *Physical Review D*, **2019**, 99,	4.9	43
71	?(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	5.4	39
70	Moments of nucleon generalized parton distributions from lattice QCD. *Physical Review D*, **2011**, 83,	4.9	38
69	Renormalization functions for Nf=2 and Nf=4 twisted mass fermions. *Physical Review D*, **2017**, 95,	4.9	37
68	First physics results at the physical pion mass from Nf=2 Wilson twisted mass fermions at maximal twist. *Physical Review D*, **2017**, 95,	4.9	36
67	Proton and neutron electromagnetic form factors from lattice QCD. *Physical Review D*, **2019**, 100,	4.9	34
66	Renormalization constants for 2-twist operators in twisted mass QCD. *Physical Review D*, **2011**, 83,	4.9	33
65	Nucleon scalar and tensor charges using lattice QCD simulations at the physical value of the pion mass. *Physical Review D*, **2017**, 95,	4.9	32
64	Renormalization constants of local operators for Wilson type improved fermions. *Physical Review D*, **2012**, 86,	4.9	32
63	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	4.2	31
62	Nucleon electromagnetic form factors using lattice simulations at the physical point. *Physical Review D*, **2017**, 96,	4.9	29
61	<x> and <x2> of the pion PDF from lattice QCD with Nf=2+1+1 dynamical quark flavors. *Physical Review D*, **2019**, 99,	4.9	28
60	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,	4.9	27
59	Renormalization of local quark-bilinear operators for Nf=3 flavors of stout link nonperturbative clover fermions. *Physical Review D*, **2015**, 91,	4.9	25
58	Gluon momentum fraction of the nucleon from lattice QCD. *Physical Review D*, **2017**, 96,	4.9	24
57	Neutron electric dipole moment using Nf=2+1+1 twisted mass fermions. *Physical Review D*, **2016**, 93,	4.9	23
56	Evaluation of disconnected quark loops for hadron structure using GPUs. *Computer Physics Communications*, **2014**, 185, 1370-1382	4.2	22
55	Parton distribution functions of 𝛑 on the lattice. *Physical Review D*, **2020**, 102,	4.9	20

54	Unpolarized and Helicity Generalized Parton Distributions of the Proton within Lattice QCD. *Physical Review Letters*, **2020**, 125, 262001	7.4	19
53	One-loop renormalization of staple-shaped operators in continuum and lattice regularizations. *Physical Review D*, **2019**, 99,	4.9	18
52	BK-parameter from Nf=2 twisted mass lattice QCD. *Physical Review D*, **2011**, 83,	4.9	18
51	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. *Physical Review D*, **2020**, 101,	4.9	18
50	One-loop matching for the twist-3 parton distribution gT(x). *Physical Review D*, **2020**, 102,	4.9	17
49	Nucleon axial, tensor, and scalar charges and □terms in lattice QCD. *Physical Review D*, **2020**, 102,	4.9	17
48	Confronting lattice parton distributions with global QCD analysis. *Physical Review D*, **2021**, 103,	4.9	17
47	The -dependence of hadronic parton distributions: A review on the progress of lattice QCD. *European Physical Journal A*, **2021**, 57, 77	2.5	17
46	Two interacting charged particles in an Aharonov-Bohm ring: Bound state transitions, symmetry breaking, persistent currents, and Berry□ phase. *Physical Review B*, **2004**, 70,	3.3	16
45	Singlet versus nonsinglet perturbative renormalization of fermion bilinears. *Physical Review D*, **2016**, 94,	4.9	14
44	Perturbatively improving regularization-invariant momentum scheme renormalization constants. *Physical Review D*, **2013**, 87,	4.9	14
43	The role of zero-mode contributions in the matching for the twist-3 PDFs e(x) and hL(x). *Physical Review D*, **2020**, 102,	4.9	14
42	Insights on proton structure from lattice QCD: The twist-3 parton distribution function gT(x). *Physical Review D*, **2020**, 102,	4.9	13
41	Lattice continuum-limit study of nucleon parton quasidistribution functions. *Physical Review D*, **2021**, 103,	4.9	13
40	Parton distributions and lattice-QCD calculations: Toward 3D structure. *Progress in Particle and Nuclear Physics*, **2021**, 121, 103908	10.6	13
39	A stochastic method for computing hadronic matrix elements. *European Physical Journal C*, **2014**, 74, 1	4.2	12
38	Computation of parton distributions from the quasi-PDF approach at the physical point. *EPJ Web of Conferences*, **2018**, 175, 14008	0.3	12
37	Topological susceptibility from twisted mass fermions using spectral projectors and the gradient flow. *Physical Review D*, **2018**, 97,	4.9	12

36	Flavor nonsinglet parton distribution functions from lattice QCD at physical quark masses via the pseudodistribution approach. *Physical Review D*, **2021**, 103,	4.9	11
35	K->matrix elements of the chromomagnetic operator on the lattice. *Physical Review D*, **2018**, 97,	4.9	11
34	Strangeness of the nucleon from lattice QCD. *Physical Review D*, **2015**, 91,	4.9	10
33	Renormalization of the chromomagnetic operator on the lattice. *Physical Review D*, **2015**, 92,	4.9	10
32	Nucleon strange electromagnetic form factors. *Physical Review D*, **2020**, 101,	4.9	10
31	Strange nucleon electromagnetic form factors from lattice QCD. *Physical Review D*, **2018**, 97,	4.9	9
30	Charge radii of the nucleon from its flavor dependent Dirac form factors. *European Physical Journal A*, **2021**, 57, 1	2.5	7
29	Position space method for the nucleon magnetic moment in lattice QCD. *Physical Review D*, **2016**, 94,	4.9	6
28	Perturbative renormalization functions of local operators for staggered fermions with stout improvement. *Physical Review D*, **2013**, 88,	4.9	6
27	Improved perturbation theory for improved lattice actions. *Physical Review D*, **2006**, 74,	4.9	6
26	Hadron Structure **2015**,		6
25	Flavor Decomposition for the Proton Helicity Parton Distribution Functions. *Physical Review Letters*, **2021**, 126, 102003	7.4	6
24	Perturbative renormalization factors and O(a2) corrections for lattice four-fermion operators with improved fermion/gluon actions. *Physical Review D*, **2011**, 83,	4.9	4
23	Two-loop additive mass renormalization with clover fermions and Symanzik improved gluons. *Physical Review D*, **2008**, 77,	4.9	4
22	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. *Physical Review D*, **2021**, 103,	4.9	4
21	Pion and kaon <x3> from lattice QCD and PDF reconstruction from Mellin moments. *Physical Review D*, **2021**, 104,	4.9	4
20	Flavor decomposition of the nucleon unpolarized, helicity, and transversity parton distribution functions from lattice QCD simulations. *Physical Review D*, **2021**, 104,	4.9	4
19	First moment of the flavour octet nucleon parton distribution function using lattice QCD. *Journal of High Energy Physics*, **2015**, 2015, 1	5.4	3

18	Recent progress in hadron structure from Lattice QCD **2016**,		3
17	Measurement of the neutron charge radius and the role of its constituents. *Nature Communications*, **2021**, 12, 1759	17.4	3
16	Mellin moments <x> and <x2> for the pion and kaon from lattice QCD. *Physical Review D*, **2021**, 103,	4.9	3
15	Nucleon spin and quark content at the physical point **2017**,		2
14	Disconnected diagrams with twisted-mass fermions **2016**,		2
13	Nucleon spin structure from lattice QCD **2018**,		2
12	Quark flavor decomposition of the nucleon axial form factors. *Physical Review D*, **2021**, 104,	4.9	2
11	Nucleon isovector tensor charge from lattice QCD using chiral fermions. *Physical Review D*, **2020**, 101,	4.9	2
10	Progress in computing parton distribution functions from the quasi-PDF approach. *EPJ Web of Conferences*, **2018**, 175, 06021	0.3	2
9	Renormalization and mixing in lattice QCD: The case of the chromomagnetic operator. *Journal of Physics: Conference Series*, **2014**, 562, 012002	0.3	1
8	New Physics Searches from Nucleon Matrix Elements in Lattice QCD. *EPJ Web of Conferences*, **2017**, 137, 08003	0.3	1
7	Magnetic-field-induced localization in networks with the T3 geometry. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2002**, 302, 39-47	2.3	1
6	Transversity GPDs of the proton from lattice QCD. *Physical Review D*, **2022**, 105,	4.9	1
5	Lattice QCD Study of Transverse-Momentum Dependent Soft Function.. *Physical Review Letters*, **2022**, 128, 062002	7.4	1
4	Parton distribution functions beyond leading twist from lattice QCD: The hL(x) case. *Physical Review D*, **2021**, 104,	4.9	1
3	Quark masses using twisted-mass fermion gauge ensembles. *Physical Review D*, **2021**, 104,	4.9	1
2	Perturbative Renormalization of Wilson line operators. *EPJ Web of Conferences*, **2018**, 175, 06025	0.3	1
1	Exciton in an AharonovBohm ring: an exactly soluble interacting mesoscopic system. *Philosophical Magazine*, **2006**, 86, 2511-2528	1.6	