

Wally Melnitchouk

List of Publications by Year in descending order

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154
papers

5,840
citations

66315

42
h-index

85498

71
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157
all docs

157
docs citations

157
times ranked

3560
citing authors

#	ARTICLE	IF	CITATIONS
1	New tool for kinematic regime estimation in semi-inclusive deep-inelastic scattering. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
2	How well do we know the gluon polarization in the proton?. Physical Review D, 2022, 105, .	1.6	19
3	Helicity-dependent distribution of strange quarks in the proton from nonlocal chiral effective theory. Physical Review D, 2022, 105, .	1.6	3
4	Complementarity of experimental and lattice QCD data on pion parton distributions. Physical Review D, 2022, 105, .	1.6	11
5	Confronting lattice parton distributions with global QCD analysis. Physical Review D, 2021, 103, .	1.6	35
6	Octet and decuplet baryon self-energies in relativistic SU(3) chiral effective theory. Physical Review D, 2021, 103, .	1.6	1
7	Towards the three-dimensional parton structure of the pion: Integrating transverse momentum data into global QCD analysis. Physical Review D, 2021, 103, .	1.6	17
8	Simultaneous Monte-Carlo analysis of parton densities and fragmentation functions. Physical Review D, 2021, 104, .	1.6	55
9	First analysis of world polarized DIS data with small- x helicity evolution. Physical Review D, 2021, 104, .	1.6	18
10	Electroweak axial structure functions and improved extraction of the CKM matrix element. Physical Review D, 2021, 104, .	1.6	37
11	Resonant contributions to inclusive nucleon structure functions from exclusive meson electroproduction data. Physical Review C, 2021, 104, .	1.1	12
12	An experimental program with high duty-cycle polarized and unpolarized positron beams at Jefferson Lab. European Physical Journal A, 2021, 57, 1.	1.0	17
13	Revisiting quark and gluon polarization in the proton at the EIC. Physical Review D, 2021, 104, .	1.6	9
14	Bayesian Monte-Carlo extraction of the sea asymmetry with SeaQuest and STAR data. Physical Review D, 2021, 104, .	1.6	21
15	Deep-inelastic scattering with positron beams. European Physical Journal A, 2021, 57, 1.	1.0	1
16	Global QCD Analysis of Pion Parton Distributions with Threshold Resummation. Physical Review Letters, 2021, 127, 232001.	2.9	33
17	A new approach to semi-inclusive deep-inelastic scattering with QED and QCD factorization. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11
18	Factorized approach to radiative corrections for inelastic lepton-hadron collisions. Physical Review D, 2021, 104, .	1.6	4

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37	Quark-hadron duality constraints on 3Z box corrections to parity-violating elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 221-226.	1.5	17
38	Constraints on the asymmetry of the proton in chiral effective theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 52-56.	1.5	19
39	Pion structure function from leading neutron electroproduction and SU(2) flavor asymmetry. Physical Review D, 2016, 93, .	1.6	34
40	Iterative Monte-Carlo analysis of spin-dependent parton distributions. Physical Review D, 2016, 93, .	1.6	107
41	Constraints on large-x parton distributions from new weak boson production and deep-inelastic scattering data. Physical Review D, 2016, 93, .	1.6	213
42	Strange-quark asymmetry in the proton in chiral effective theory. Physical Review D, 2016, 94, .	1.6	24
43	First Monte-Carlo analysis of fragmentation functions from single-inclusive Physical Review D, 2016, 94, .	1.6	50
44	SU(2) Flavor Asymmetry of the Proton Sea in Chiral Effective Theory. Few-Body Systems, 2016, 57, 593-599.	0.7	0
45	Direct observation of quark-hadron duality in the free neutron function. Physical Review C, 2015, 91, .		
46	Measurement of the EMC effect in the deuteron. Physical Review C, 2015, 92, .	1.1	27
47	Hadron mass corrections in semi-inclusive deep-inelastic scattering. Journal of High Energy Physics, 2015, 2015, 1.	1.6	11
48	$d - u$ Flavor Asymmetry in the Proton in Chiral Effective Field Theory. Few-Body Systems, 2015, 56, 355-362.	0.7	3
49	Asymmetry in the	2.9	37
50	Constraints on spin-dependent parton distributions at large x from global QCD analysis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 263-267.	1.5	32
51	Quasielastic electron-deuteron scattering in the weak-binding approximation. Physical Review C, 2014, 89, .	1.1	6
52	Phenomenology of nonperturbative charm in the nucleon. Physical Review D, 2014, 89, .	1.6	54
53	Impact of hadronic and nuclear corrections on global analysis of spin-dependent parton distributions. Physical Review D, 2014, 89, .	1.6	48
54	Nuclear effects in the proton-deuteron Drell-Yan process. Physical Review D, 2014, 90, .	1.6	13

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55	Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic H		

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73	Review of two-photon exchange in electron scattering. Progress in Particle and Nuclear Physics, 2011, 66, 782-833.	5.6	143
74	Uncertainties in determining parton distributions at large x . Physical Review D, 2011, 84, .	1.6	68
75	Evidence for quark-hadron duality in $\hat{\Gamma}^3$ helicity cross sections. Physical Review C, 2011, 83, .	1.1	6
76	Next-to-leading order analysis of target mass corrections to structure functions and asymmetries. Physical Review D, 2011, 84, .	1.6	31
77	New Formulation of $\hat{\Gamma}^3$ Box Corrections to the Weak Charge of the Proton. Physical Review Letters, 2011, 107, 081801.	2.9	39
78	Two-photon exchange corrections to the pion form factor. Physical Review C, 2010, 81, .	1.1	17
79	Confirmation of Quark-Hadron Duality in the Neutron Structure Function. Physical Review Letters, 2010, 104, 102001.	2.9	16
80	New parton distributions from large- x and low- x data. Physical Review C, 2010, 81, .	1.6	64
81	$\hat{\Gamma}^3$ corrections to forward-angle parity-violating e - p scattering. Physical Review D, 2010, 82, .	1.6	58
82	New method for extracting neutron structure functions from nuclear data. Physical Review C, 2009, 79, .	1.1	33
83	Detailed analysis of two-boson exchange in parity-violating e - p scattering. Physical Review C, 2009, 79, .	1.1	33
84	Duality in semi-inclusive pion electroproduction. Physical Review C, 2009, 79, .	1.1	7
85	A Polarized Positron Source for CEBAF. , 2009, , .		7
86	Hadron mass corrections in semi-inclusive deep inelastic scattering. Journal of High Energy Physics, 2009, 2009, 084-084.	1.6	13
87	What can break the Wandzura-Wilczek relation?. Journal of High Energy Physics, 2009, 2009, 093-093.	1.6	57
88	Two-photon exchange measurements with positrons and electrons. , 2009, , .		6
89	Pion cloud and the sea of the nucleon. Indian Journal of Physics, 2009, 83, 617-628.	0.9	0
90	Equivalence of pion loops in equal-time and light-front dynamics. Physical Review D, 2009, 80, .	1.6	17

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91	The OLYMPUS Experiment at DESY. , 2009, , .		8
92	Target mass corrections for spin-dependent structure functions in collinear factorization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 670, 114-118.	1.5	25
93	Finite-Q ² corrections to parity-violating DIS. Physical Review D, 2008, 77, .	1.6	30
94	Deuteron spin structure functions in the resonance and deep inelastic scattering regions. Physical Review C, 2008, 77, .	1.1	16
95	Target mass corrections. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 053101.	1.4	94
96	Spin structure functions of He ³ at finite Q ² . Physical Review C, 2008, 78, .	1.1	19
97	Quark-hadron duality and truncated moments of nucleon structure functions. Physical Review C, 2008, 78, .	1.1	20
98	Effect of Two-Boson Exchange on Parity-Violating e - p Scattering. Physical Review Letters, 2008, 100, 082003.	2.9	18
99	Future Fixed Target Facilities. , 2008, , .		0
100	Weak deeply virtual Compton scattering. Physical Review D, 2007, 75, .	1.6	14
101	Quark-hadron duality in neutrino scattering. Physical Review C, 2007, 75, .	1.1	24
102	Global analysis of proton elastic form factor data with two-photon exchange corrections. Physical Review C, 2007, 76, .	1.1	231
103	Experimental moments of the nucleon structure function F ₂ . Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 23-26.	0.5	2
104	Structure functions at low Q^2 : higher twists and target mass effects. Nuclear Physics A, 2007, 782, 126-133.	0.6	1
105	Leading twist moments of the neutron structure function. Nuclear Physics A, 2006, 766, 142-171.	0.6	14
106	Jefferson Lab phenomenology: selected highlights. Nuclear Physics, Section B, Proceedings Supplements, 2006, 161, 176-184.	0.5	0
107	Resonance-DIS transition and low Q ² phenomena. Nuclear Physics, Section B, Proceedings Supplements, 2006, 159, 147-151.	0.5	0
108	Target mass corrections revisited. Physical Review C, 2006, 73, .	1.1	34

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109	Quark-hadron duality in structure functions. <i>Journal of Physics: Conference Series</i> , 2005, 9, 260-263.	0.3	2
110	Jefferson Lab phenomenology: an overview. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005, 141, 151-158.	0.5	1
111	Quark-hadron duality in electron scattering. <i>Physics Reports</i> , 2005, 406, 127-301.	10.3	151
112	Two-photon exchange in elastic electron-proton scattering. <i>European Physical Journal A</i> , 2005, 24, 59-63.	1.0	2
113	Two-photon exchange in elastic electron-nucleon scattering. <i>Physical Review C</i> , 2005, 72, .	1.1	189
114	ρ Resonance Contribution to Two-Photon Exchange in Electron-Proton Scattering. <i>Physical Review Letters</i> , 2005, 95, 172503.	2.9	114
115	FLIC fermions and hadron phenomenology. <i>European Physical Journal A</i> , 2003, 18, 247-252.	1.0	11
116	Quark-hadron duality in electron-pion scattering. <i>European Physical Journal A</i> , 2003, 17, 223-234.	1.0	29
117	Two-Photon Exchange and Elastic Electron-Proton Scattering. <i>Physical Review Letters</i> , 2003, 91, 142304.	2.9	285
118	Symmetry breaking and quark-hadron duality in structure functions. <i>Physical Review C</i> , 2003, 68, .	1.1	52
119	Excited baryons in lattice QCD. <i>Physical Review D</i> , 2003, 67, .	1.6	85
120	Higher twists in the pion structure function. <i>Physical Review D</i> , 2003, 67, .	1.6	7
121	Deep inelastic scattering from $A=3$ nuclei and the neutron structure function. <i>Physical Review C</i> , 2003, 68, .	1.1	53
122	Nucleon Resonances from FLIC Fermions. <i>Progress of Theoretical Physics Supplement</i> , 2003, 151, 138-142.	0.2	0
123	Baryon resonances from a novel fat-link fermion action. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 109, 96-100.	0.5	5
124	Quark-hadron duality and the nuclear EMC effect. <i>European Physical Journal A</i> , 2002, 14, 105-112.	1.0	4
125	HADRON MASSES FROM A NOVEL FAT-LINK FERMION ACTION. , 2002, , .		0
126	A meson exchange model for the YN interaction. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	5

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127	Parton distributions from lattice QCD. EPJ Direct, 2001, 3, 1-15.	0.1	25
128	Local Duality Predictions for $x^{1/4}$ Structure Functions. Physical Review Letters, 2001, 86, 35-38.	2.9	36
129	Quark-hadron duality in structure functions. Physical Review D, 2001, 64, .	1.6	52
130	Chiral Extrapolation of Lattice Moments of Proton Quark Distributions. Physical Review Letters, 2001, 87, 172001.	2.9	135
131	Neutron structure function and A=3 mirror nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 493, 36-42.	1.5	51
132	Asymmetric quarks in the proton. AIP Conference Proceedings, 2000, , .	0.3	0
133	Dynamical Symmetry Breaking in the Sea of the Nucleon. Physical Review Letters, 2000, 85, 2892-2894.	2.9	84
134	Strange asymmetries in the nucleon sea. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 451, 224-232.	1.5	34
135	Semi-inclusive pion production and the d/u ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 435, 420-426.	1.5	9
136	Dynamics of light antiquarks in the proton. Physical Review D, 1998, 59, .	1.6	81
137	Strangeness in the nucleon on the light cone. Physical Review C, 1997, 55, 431-440.	1.1	42
138	Nucleon strange magnetic moment and relativistic covariance. Physical Review C, 1997, 56, R2373-R2377.	1.1	4
139	Spin-dependent twist-four matrix elements from g_1 data in the resonance region. Physical Review D, 1997, 56, R1-R5.	1.6	54
140	Probing the origin of the EMC effect via tagged structure functions of the deuteron. Zeitschrift für Physik A, 1997, 359, 99-109.	0.9	61
141	Large-x d/u ratio in W-boson production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 400, 220-225.	1.5	18
142	structure function ratio at large x. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 11-17.	1.5	134
143	Nucleon structure functions at moderate Q^2 : Relativistic constituent quarks and spectator mass spectrum. Nuclear Physics A, 1996, 597, 515-542.	0.6	18
144	Polarized deep-inelastic scattering from nuclei: A relativistic approach. Physical Review C, 1996, 54, 894-903.	1.1	17

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145	Meson cloud of the nucleon in polarized semi-inclusive deep-inelastic scattering. Zeitschrift für Physik A, 1995, 353, 311-319.	0.9	15
146	Deep inelastic scattering from polarized deuterons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 346, 165-171.	1.5	42
147	Deep inelastic scattering from polarized deuterons. AIP Conference Proceedings, 1995, , .	0.3	0
148	Spin-dependent nuclear structure functions: General approach with application to the deuteron. Physical Review C, 1995, 52, 932-946.	1.1	42
149	Deep-inelastic scattering from off-shell nucleons. Physical Review D, 1994, 49, 1183-1198.	1.6	103
150	Nucleon structure functions from relativistic constituent quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 275-280.	1.5	19
151	Relativistic deuteron structure function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 335, 11-16.	1.5	66
152	Role of vector mesons in high- Q^2 lepton-nucleon scattering. Physical Review D, 1993, 47, 3794-3803.	1.6	47
153	Proton production bias in neutrino-hydrogen interactions. Zeitschrift für Physik A, 1992, 342, 215-221.	0.9	8
154	Gottfried sum rule and the shape of $F_2^D - F_2^P$. Zeitschrift für Physik A, 1991, 340, 85-92.	0.9	45