Alexei Prokudin

List of Publications by Year
in descending order

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72 papers	4,200 citations	126901 33 h-index	106340 65 g-index
72 all docs	72 docs citations	72 times ranked	1859 citing authors

#	Article	IF	Citations
1	Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math> Electroproduction off Protons in the Valence Region. Physical Review Letters, 2022, 128, 062005.	7.8	5
2	New tool for kinematic regime estimation in semi-inclusive deep-inelastic scattering. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
3	Efficient Fourier transforms for transverse momentum dependent distributions. Computer Physics Communications, 2021, 258, 107611.	7.5	8
4	The Drell-Yan process with pions and polarized nucleons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
5	Extraction of the Sivers Function from SIDIS, Drell-Yan, and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>W</mml:mi><mml:mo>Â±</mml:mo></mml:msup><mml:mo stretchy="false">/</mml:mo><mml:mi>Z</mml:mi></mml:math> Data at Next-to-Next-to-Next-to Leading Order. Physical Review Letters, 2021, 126, 112002.	7.8	25
6	Reweighting the Sivers function with jet data from STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136135.	4.1	5
7	Electron-ion collider impact study on the tensor charge of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136255.	4.1	9
8	Extraction of the Sivers function from SIDIS, Drell-Yan, and WÂ±/Z boson production data with TMD evolution. Journal of High Energy Physics, 2021, 2021, 1.	4.7	30
9	Origin of single transverse-spin asymmetries in high-energy collisions. Physical Review D, 2020, 102, .	4.7	85
10	Jet-based measurements of Sivers and Collins asymmetries at the future electron-ion collider. Physical Review D, 2020, 102, .	4.7	35
11	The transverse nucleon single-spin asymmetry for the semi-inclusive production of photons in lepton-nucleon scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135367.	4.1	1
12	Role of the Soffer bound in determination of transversity and the tensor charge. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135347.	4.1	19
13	Semi-inclusive deep-inelastic scattering in Wandzura-Wilczek-type approximation. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27
14	Transverse Momentum Dependent Observables from Low to High Energy: Factorization, Evolution, and Global Analyses. Advances in High Energy Physics, 2019, 2019, 1-2.	1.1	1
15	Azimuthal asymmetries in unpolarized SIDIS and Drell-Yan processes: A case study towards TMD factorization at subleading twist. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134850.	4.1	20
16	Mapping the kinematical regimes of semi-inclusive deep inelastic scattering. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
17	First MonteÂCarlo Global Analysis of Nucleon Transversity with Lattice QCD Constraints. Physical Review Letters, 2018, 120, 152502.	7.8	69
18	Role of transverse momentum dependence of unpolarized parton distribution and fragmentation functions in the analysis of azimuthal spin asymmetries. Physical Review D, 2018, 98, .	4.7	9

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19	Connections between collinear and transverse-momentum-dependent polarized observables within the Collinsâ€“Soperâ€“Sterman formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 443-454.	4.1	16
20	Unveiling the nucleon tensor charge at Jefferson Lab: A study of the SoLID case. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 91-98.	4.1	34
21	Phenomenological constraints on A in pâ†'pâ†'Ï€X from Lorentz invariance relations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 242-251.	4.1	33
22	Study of the sign change of the Sivers function from STAR collaboration W/Z production data. Journal of High Energy Physics, 2017, 2017, 1.	4.7	52
23	Pre-Town Meeting on spin physics at an Electron-Ion Collider. European Physical Journal A, 2017, 53, 1.	2.5	11
24	Collins azimuthal asymmetries of hadron production inside jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 635-642.	4.1	46
25	Phenomenology of transverse spin: Past, present and future. European Physical Journal A, 2016, 52, 1.	2.5	22
26	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	2.5	898
27	Extraction of quark transversity distribution and Collins fragmentation functions with QCD evolution. Physical Review D, 2016, 93, .	4.7	145
28	Extracting the kaon Collins function from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo>â pair production data. Physical Review D, 2016, 93, .	4.7	20
29	Relating transverse-momentum-dependent and collinear factorization theorems in a generalized formalism. Physical Review D, 2016, 94, .	4.7	74
30	Scheme dependence and transverse momentum distribution interpretation of Collinsâ€“Soperâ€“Sterman resummation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 533-538.	4.1	38
31	Nucleon tensor charge from Collins azimuthal asymmetry measurements. Physical Review D, 2015, 91, .	4.7	32
32	Collins functions for pions from SIDIS and new<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo>â A first glance at their transverse momentum dependence. Physical Review D, 2015, 92, .	4.7	63
33	Next-to-leading order transverse momentum-weighted Sivers asymmetry in semi-inclusive deep inelastic scattering: The role of the three-gluon correlator. Physical Review D, 2015, 92, .	4.7	23
34	ANin inclusive lepton-proton collisions: TMD and twist-3 approaches. EPJ Web of Conferences, 2015, 85, 02028.	0.3	1
35	Extraction of the distribution function<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>h</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow><mm experimental data. Physical Review D, 2015, 91, .	4.7	19
36	A study on the interplay between perturbative QCD and CSS/TMD formalism in SIDIS processes. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22

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37	Studies of transverse momentum dependent parton distributions and Bessel weighting. Journal of High Energy Physics, 2015, 2015, 1.	4.7	5
38	Left-right spin asymmetry in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>â„“</mml:mo><mml:msup><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mr stretchy="false">â†'</mml:mo><mml:mi>h</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:math>. Physical Review D, 2014, 90, .	4.7	22
39	Unpolarised transverse momentum dependent distribution and fragmentation functions from SIDIS multiplicities. Journal of High Energy Physics, 2014, 2014, 1.	4.7	99
40	Single spin asymmetries in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>â„“</mml:mo><mml:msup><mml:mrow><mml:mi>p</mml:mi></mml:mrow><mml:mrow><mml:mr stretchy="false">â†‘</mml:mo></mml:mrow></mml:msup><mml:mo stretchy="false">â†'</mml:mo><mml:mi>h</mml:mi><mml:mi>X</mml:mi></mml:math> processes and transverse momentum dependent factorization. Physical Review D, 2014, 89, .	4.7	14
41	QCD EVOLUTION OF HELICITY AND TRANSVERSITY TMDs. International Journal of Modern Physics Conference Series, 2014, 25, 1460016.	0.7	0
42	PROCESS DEPENDENCE AND THE SIVERS EFFECT IN INCLUSIVE AND SEMI-INCLUSIVE REACTIONS. International Journal of Modern Physics Conference Series, 2014, 25, 1460018.	0.7	0
43	Simultaneous extraction of transversity and Collins functions from new semi-inclusive deep inelastic scattering and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo mathvariant="bold">+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo mathvariant="bold">â^'</mml:mo></mml:msup></mml:math>data. Physical Review D, 2013, 87, .	4.7	182
44	SPIN effects, QCD, and Jefferson Laboratory with 12 GeV electrons. Physics of Particles and Nuclei, 2013, 44, 947-953.	0.7	0
45	Evolution of the helicity and transversity. Transverse-momentum-dependent parton distributions. Nuclear Physics B, 2013, 875, 536-551.	2.5	59
46	Indication on the Process Dependence of the Sivers Effect. Physical Review Letters, 2013, 110, 232301.	7.8	45
47	Three Pomerons versus D0 and TOTEM data. Physical Review D, 2013, 87, .	4.7	5
48	Sivers effect and the single spin asymmetryANinpâ†'pâ†'hXprocesses. Physical Review D, 2013, 88, .	4.7	56
49	Role of Collins effect in the single spin asymmetryANinpâ†'pâ†'hXprocesses. Physical Review D, 2012, 86, .	4.7	46
50	Calculation of Transverse-Momentum-Dependent Evolution for Sivers Transverse Single Spin Asymmetry Measurements. Physical Review Letters, 2012, 108, 242003.	7.8	85
51	Global fitting of single spin asymmetry: An attempt. Physical Review D, 2012, 85, .	4.7	47
52	Nuclear physics with a medium-energy Electron-Ion Collider. European Physical Journal A, 2012, 48, 1.	2.5	24
53	General helicity formalism for semi-inclusive deep inelastic scattering. Physical Review D, 2011, 83, .	4.7	47
54	Semiâ€Inclusive Deep Inelastic Scattering and Besselâ€Weighted Asymmetries. , 2011, , .		3

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55	New insight on the Sivers transverse momentum dependent distribution function. Journal of Physics: Conference Series, 2011, 295, 012062.	0.4	13
56	Transverse-momentum-dependent parton distribution/fragmentation functions at an electron-ion collider. European Physical Journal A, 2011, 47, 1.	2.5	31
57	Transverse spin structure of the nucleon through target single-spin asymmetry in semi-inclusive deep-inelastic (e, eâ€™ $ pi^{pm}_{}$) reaction at Jefferson Lab. European Physical Journal Plus, 2011, 126, 1.	2.6	42
58	Bessel-weighted asymmetries in semi-inclusive deep inelastic scattering. Journal of High Energy Physics, 2011, 2011, 1.	4.7	55
59	Azimuthal asymmetries in unpolarized Drell-Yan processes and the Boer-Mulders distributions of antiquarks. Physical Review D, 2010, 82, .	4.7	31
60	Single spin asymmetries in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>l</mml:mi><mml:mi>p</mml:mi><mml:mo>â†’</mml:mo><mml:mi>h</mml:mi><mml:mi>X</mml:mi></mml:math>A test of factorization. Physical Review D, 2010, 81, .	4.7	24
61	Boer-Mulders effect in unpolarized SIDIS: An analysis of the COMPASS and HERMES data on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>cos</mml:mi><mml:mo>ï»¿</mml:mo><mml:mn>2</mml:mn><mml:mi>Ï•</mml:mi></mml:math>asymmetry. Physical Review D, 2010, 81, .	4.7	73
62	Update on transversity and Collins functions from SIDIS and data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 191, 98-107.	0.4	171
63	Sivers effect for pion and kaon production in semi-inclusive deep inelastic scattering. European Physical Journal A, 2009, 39, 89-100.	2.5	251
64	FORWARD PHYSICS AT THE LHC: ELASTIC SCATTERING. International Journal of Modern Physics A, 2009, 24, 2551-2599.	1.5	49
65	Sivers effect in Drell-Yan processes. Physical Review D, 2009, 79, .	4.7	60
66	Transversity and Collins functions from SIDIS ande+eâ^'data. Physical Review D, 2007, 75, .	4.7	259
67	Semi-Inclusive Deep Inelastic Scattering processes from small to large PT. European Physical Journal A, 2007, 31, 373-381.	2.5	40
68	Predictions for double spin asymmetryALTin semiinclusive DIS. Physical Review D, 2006, 73, .	4.7	43
69	COMPARING EXTRACTIONS OF SIVERS FUNCTIONS. , 2006, , .		6
70	Extracting the Sivers function from polarized semi-inclusive deep inelastic scattering data and making predictions. Physical Review D, 2005, 72, .	4.7	152
71	Role of Cahn and Sivers effects in deep inelastic scattering. Physical Review D, 2005, 71, .	4.7	196
72	Coulomb interference in high-energy pp and $ar p p$ scattering. European Physical Journal C, 2003, 28, 525-533.	3.9	32