

# Alexei Prokudin

## List of Publications by Year in descending order

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72  
papers

4,200  
citations

126907

33  
h-index

106344

65  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	2.5	898
2	Transversity and Collins functions from SIDIS and $e^+e^-$ data. Physical Review D, 2007, 75, .	4.7	259
3	Sivers effect for pion and kaon production in semi-inclusive deep inelastic scattering. European Physical Journal A, 2009, 39, 89-100.	2.5	251
4	Role of Cahn and Sivers effects in deep inelastic scattering. Physical Review D, 2005, 71, .	4.7	196
5	Simultaneous extraction of transversity and Collins functions from new semi-inclusive deep inelastic scattering and $e^+e^-$ data. Physical Review D, 2013, 87, .	4.7	182
6	Update on transversity and Collins functions from SIDIS and data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 191, 98-107.	0.4	171
7	Extracting the Sivers function from polarized semi-inclusive deep inelastic scattering data and making predictions. Physical Review D, 2005, 72, .	4.7	152
8	Extraction of quark transversity distribution and Collins fragmentation functions with QCD evolution. Physical Review D, 2016, 93, .	4.7	145
9	Unpolarised transverse momentum dependent distribution and fragmentation functions from SIDIS multiplicities. Journal of High Energy Physics, 2014, 2014, 1.	4.7	99
10	Calculation of Transverse-Momentum-Dependent Evolution for Sivers Transverse Single Spin Asymmetry Measurements. Physical Review Letters, 2012, 108, 242003.	7.8	85
11	Origin of single transverse-spin asymmetries in high-energy collisions. Physical Review D, 2020, 102, .	4.7	85
12	Relating transverse-momentum-dependent and collinear factorization theorems in a generalized formalism. Physical Review D, 2016, 94, .	4.7	74
13	Boer-Mulders effect in unpolarized SIDIS: An analysis of the COMPASS and HERMES data on the $\cos\phi$ asymmetry. Physical Review D, 2010, 81, .	4.7	73
14	First Monte Carlo Global Analysis of Nucleon Transversity with Lattice QCD Constraints. Physical Review Letters, 2018, 120, 152502.	7.8	69
15	Collins functions for pions from SIDIS and new $e^+e^-$ data. A first glance at their transverse momentum dependence. Physical Review D, 2015, 92, .	4.7	63
16	Sivers effect in Drell-Yan processes. Physical Review D, 2009, 79, .	4.7	60
17	Evolution of the helicity and transversity. Transverse-momentum-dependent parton distributions. Nuclear Physics B, 2013, 875, 536-551.	2.5	59
18	Sivers effect and the single spin asymmetry in $p^+p^- \rightarrow X$ processes. Physical Review D, 2013, 88, .	4.7	56

#	ARTICLE	IF	CITATIONS
19	Bessel-weighted asymmetries in semi-inclusive deep inelastic scattering. Journal of High Energy Physics, 2011, 2011, 1.	4.7	55
20	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
21	FORWARD PHYSICS AT THE LHC: ELASTIC SCATTERING. International Journal of Modern Physics A, 2009, 24, 2551-2599.	1.5	49
22	General helicity formalism for semi-inclusive deep inelastic scattering. Physical Review D, 2011, 83, .	4.7	47
23	Global fitting of single spin asymmetry: An attempt. Physical Review D, 2012, 85, .	4.7	47
24	Role of Collins effect in the single spin asymmetry in $\pi^+\pi^0$ processes. Physical Review D, 2012, 86, .	4.7	46
25	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
26	Indication on the Process Dependence of the Sivers Effect. Physical Review Letters, 2013, 110, 232301.	7.8	45
27	Predictions for double spin asymmetry in semi-inclusive DIS. Physical Review D, 2006, 73, .	4.7	43
28	Transverse spin structure of the nucleon through target single-spin asymmetry in semi-inclusive deep-inelastic ( $e, e^+ \pi^{\pm}$ ) reaction at Jefferson Lab. European Physical Journal Plus, 2011, 126, 1.	2.6	42
29	Semi-Inclusive Deep Inelastic Scattering processes from small to large PT. European Physical Journal A, 2007, 31, 373-381.	2.5	40
30	Scheme dependence and transverse momentum distribution interpretation of Collins-Soper-Sterman resummation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 533-538.	4.1	38
31	Jet-based measurements of Sivers and Collins asymmetries at the future electron-ion collider. Physical Review D, 2020, 102, .	4.7	35
32	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
33	Phenomenological constraints on $A$ in $\pi^+\pi^0$ from Lorentz invariance relations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 242-251.	4.1	33
34	Coulomb interference in high-energy pp and $\bar{p}p$ scattering. European Physical Journal C, 2003, 28, 525-533.	3.9	32
35	Nucleon tensor charge from Collins azimuthal asymmetry measurements. Physical Review D, 2015, 91, .	4.7	32
36	Azimuthal asymmetries in unpolarized Drell-Yan processes and the Boer-Mulders distributions of antiquarks. Physical Review D, 2010, 82, .	4.7	31

#	ARTICLE	IF	CITATIONS
37	Transverse-momentum-dependent parton distribution/fragmentation functions at an electron-ion collider. <i>European Physical Journal A</i> , 2011, 47, 1.	2.5	31
38	Extraction of the Sivers function from SIDIS, Drell-Yan, and $W_{\pm}/Z$ boson production data with TMD evolution. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	30
39	Semi-inclusive deep-inelastic scattering in Wandzura-Wilczek-type approximation. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	27
40	Extraction of the Sivers Function from SIDIS, Drell-Yan, and $W_{\pm}/Z$ boson production data at Next-to-Next-to-Next-to Leading Order. <i>Physical Review Letters</i> , 2021, 126, 112002.	7.8	25
41	Single spin asymmetries in $l$ production. A test of factorization. <i>Physical Review D</i> , 2010, 81, .	4.7	24
42	Nuclear physics with a medium-energy Electron-Ion Collider. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	24
43	Mapping the kinematical regimes of semi-inclusive deep inelastic scattering. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	24
44	Next-to-leading order transverse momentum-weighted Sivers asymmetry in semi-inclusive deep inelastic scattering: The role of the three-gluon correlator. <i>Physical Review D</i> , 2015, 92, .	4.7	23
45	Left-right spin asymmetry in $h$ production. <i>Physical Review D</i> , 2014, 90, .	4.7	22
46	A study on the interplay between perturbative QCD and CSS/TMD formalism in SIDIS processes. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	22
47	Phenomenology of transverse spin: Past, present and future. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	22
48	Extracting the kaon Collins function from $e^+e^- \rightarrow \mu^+\mu^- \gamma$ pair production data. <i>Physical Review D</i> , 2016, 93, .	4.7	20
49	Azimuthal asymmetries in unpolarized SIDIS and Drell-Yan processes: A case study towards TMD factorization at subleading twist. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134850.	4.1	20
50	Extraction of the distribution function $h_1$ from experimental data. <i>Physical Review D</i> , 2015, 91, .	4.7	19
51	Role of the Soffer bound in determination of transversity and the tensor charge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 803, 135347.	4.1	19
52	Connections between collinear and transverse-momentum-dependent polarized observables within the Collins-Soper-Sterman formalism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 443-454.	4.1	16
53	Single spin asymmetries in $h$ production and transverse momentum dependent factorization. <i>Physical Review D</i> , 2014, 89, .	4.7	14
54	New insight on the Sivers transverse momentum dependent distribution function. <i>Journal of Physics: Conference Series</i> , 2011, 295, 012062.	0.4	13

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55	Pre-Town Meeting on spin physics at an Electron-Ion Collider. European Physical Journal A, 2017, 53, 1.	2.5	11
56	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
57	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
58	Efficient Fourier transforms for transverse momentum dependent distributions. Computer Physics Communications, 2021, 258, 107611.	7.5	8
59	The Drell-Yan process with pions and polarized nucleons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
60	COMPARING EXTRACTIONS OF SIVERS FUNCTIONS. , 2006, , .		6
61	Three Pomerons versus D0 and TOTEM data. Physical Review D, 2013, 87, .	4.7	5
62	Studies of transverse momentum dependent parton distributions and Bessel weighting. Journal of High Energy Physics, 2015, 2015, 1.	4.7	5
63	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
64	Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive Electroproduction off Protons in the Valence Region. Physical Review Letters, 2022, 128, 062005.	7.8	5
65	New tool for kinematic regime estimation in semi-inclusive deep-inelastic scattering. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
66	Semi-Inclusive Deep Inelastic Scattering and Bessel-Weighted Asymmetries. , 2011, , .		3
67	AN inclusive lepton-proton collisions: TMD and twist-3 approaches. EPJ Web of Conferences, 2015, 85, 02028.	0.3	1
68	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
69	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
70	SPIN effects, QCD, and Jefferson Laboratory with 12 GeV electrons. Physics of Particles and Nuclei, 2013, 44, 947-953.	0.7	0
71	QCD EVOLUTION OF HELICITY AND TRANSVERSITY TMDs. International Journal of Modern Physics Conference Series, 2014, 25, 1460016.	0.7	0
72	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