

Alessandro Bacchetta

List of Publications by Year in descending order

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100
papers

6,105
citations

81900

39
h-index

66911

78
g-index

101
all docs

101
docs citations

101
times ranked

3156
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	2.5	898
2	Single-Spin Asymmetries in Semi-Inclusive Deep-Inelastic Scattering on a Transversely Polarized Hydrogen Target. Physical Review Letters, 2005, 94, 012002.	7.8	466
3	Semi-inclusive deep inelastic scattering at small transverse momentum. Journal of High Energy Physics, 2007, 2007, 093-093.	4.7	455
4	Single-spin asymmetries: The Trento conventions. Physical Review D, 2004, 70, .	4.7	280
5	Observation of the Naive- T -Odd Sivers Effect in Deep-Inelastic Scattering. Physical Review Letters, 2009, 103, 152002.	7.8	260
6	Transverse-momentum distributions in a diquark spectator model. Physical Review D, 2008, 78, .	4.7	200
7	Transverse Momentum Dependent (TMD) Parton Distribution Functions: Status and Prospects. Acta Physica Polonica B, 2015, 46, 2501.	0.8	192
8	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
9	Matches and mismatches in the descriptions of semi-inclusive processes at low and high transverse momentum. Journal of High Energy Physics, 2008, 2008, 023-023.	4.7	167
10	Effects of transversity in deep-inelastic scattering by polarized protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 11-16.	4.1	165
11	Extraction of partonic transverse momentum distributions from semi-inclusive deep-inelastic scattering, Drell-Yan and Z-boson production. Journal of High Energy Physics, 2017, 2017, 1.	4.7	151
12	Bounds on Transverse Momentum Dependent Distribution and Fragmentation Functions. Physical Review Letters, 2000, 85, 712-715.	7.8	128
13	Investigations into the flavor dependence of partonic transverse momentum. Journal of High Energy Physics, 2013, 2013, 1.	4.7	98
14	Sivers function in a spectator model with axial-vector diquarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 109-118.	4.1	97
15	First extraction of valence transversities in a collinear framework. Journal of High Energy Physics, 2013, 2013, 1.	4.7	95
16	Single spin asymmetries in hadron-hadron collisions. Physical Review D, 2005, 72, .	4.7	90
17	Measurement of the proton structure function F_L at HERA. Particle and High-Energy Physics, 2008, 665, 139-146.	4.1	89
18	Improved extraction of valence transversity distributions from inclusive dihadron production. Journal of High Energy Physics, 2015, 2015, 1.	4.7	88

#	ARTICLE	IF	CITATIONS
19	Transverse-momentum-dependent parton distributions up to N3LL from Drell-Yan data. Journal of High Energy Physics, 2020, 2020, 1.	4.7	86
20	First Glances at the Transversity Parton Distribution through Dihadron Fragmentation Functions. Physical Review Letters, 2011, 107, 012001.	7.8	81
21	Constraining Quark Angular Momentum through Semi-Inclusive Measurements. Physical Review Letters, 2011, 107, 212001.	7.8	78
22	First Extraction of Transversity from a Global Analysis of Electron-Proton and Proton-Proton Data. Physical Review Letters, 2018, 120, 192001.	7.8	77
23	Deep inelastic leptonproduction of spin-one hadrons. Physical Review D, 2000, 62, .	4.7	76
24	Partial-wave analysis of two-hadron fragmentation functions. Physical Review D, 2003, 67, .	4.7	72
25	Two-hadron semi-inclusive production including subleading twist contributions. Physical Review D, 2004, 69, .	4.7	63
26	Collins fragmentation function for pions and kaons in a spectator model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 234-243.	4.1	63
27	Evolution of the helicity and transversity. Transverse-momentum-dependent parton distributions. Nuclear Physics B, 2013, 875, 536-551.	2.5	59
28	New observables in longitudinal single-spin asymmetries in semi-inclusive DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 309-317.	4.1	57
29	What can break the Wandzura-Wilczek relation?. Journal of High Energy Physics, 2009, 2009, 093-093.	4.7	57
30	Reviewing model calculations of the Collins fragmentation function. Physical Review D, 2005, 71, .	4.7	56
31	First extraction of interference fragmentation functions from $\langle \text{mml:msup} \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \langle \text{mml:msup} \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$ Physical Review D, 2012, 85, .	4.7	54
32	Beam-spin asymmetries in the azimuthal distribution of pion electroproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 648, 164-170.	4.1	51
33	Modeling dihadron fragmentation functions. Physical Review D, 2006, 74, .	4.7	50
34	On the physics potential to study the gluon content of proton and deuteron at NICA SPD. Progress in Particle and Nuclear Physics, 2021, 119, 103858.	14.4	50
35	Evidence for a transverse single-spin asymmetry in leptonproduction of $\bar{\ell} \langle \text{sup} \rangle + \langle \text{sup} \rangle \bar{\ell} \langle \text{sup} \rangle \hat{a}^{\sim} \langle \text{sup} \rangle$ pairs. Journal of High Energy Physics, 2008, 2008, 017-017.	4.7	49
36	Estimate of the Collins fragmentation function in a chiral invariant approach. Physical Review D, 2002, 65, .	4.7	48

#	ARTICLE	IF	CITATIONS
55	Production of two hadrons in semi-inclusive deep inelastic scattering. <i>Physical Review D</i> , 2014, 90, .	4.7	22
56	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
57	The 3-dimensional distribution of quarks in momentum space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 827, 136961.	4.1	19
58	Accessing the nucleon transverse structure in inclusive deep inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 773, 632-638.	4.1	18
59	Reconstructing parton densities at large fractional momenta. <i>Physical Review D</i> , 2017, 95, .	4.7	16
60	Positivity bounds on spin-one distribution and fragmentation functions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 518, 85-93.	4.1	15
61	Search for excited electrons in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 666, 131-139.	4.1	15
62	Semi-inclusive production of two back-to-back hadron pairs in $e^+e^- \rightarrow e^+e^- + \text{hadron pairs}$ annihilation revisited. <i>Physical Review D</i> , 2018, 97, .	4.7	15
63	Multi-lepton production at high transverse momenta in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 668, 268-276.	4.1	13
64	Electron in three-dimensional momentum space. <i>Physical Review D</i> , 2016, 93, .	4.7	13
65	Revisiting model relations between T -odd transverse-momentum-dependent parton distributions and generalized parton distributions. <i>Physical Review D</i> , 2019, 100, .	4.7	12
66	Transverse-Momentum Dependent Functions in Semi-Inclusive DIS. <i>AIP Conference Proceedings</i> , 2007, .	0.4	11
67	Publisher's Note: Production of two hadrons in semi-inclusive deep inelastic scattering [<i>Phys. Rev. D</i> 90(11), 114027 (2014)]. <i>Physical Review D</i> , 2015, 91, .	4.7	11
68	Revisiting the equivalence of light-front and covariant QED in the light-cone gauge. <i>Physical Review D</i> , 2016, 94, .	4.7	9
69	A method for tuning parameters of Monte Carlo generators and its application to the determination of the unintegrated gluon density. <i>European Physical Journal C</i> , 2010, 70, 503-511.	3.9	8
70	QCD—QED evolution of TMDs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 788, 280-287.	4.1	7
71	A spectator-model way to transverse-momentum-dependent gluon distribution functions. <i>SciPost Physics Proceedings</i> , 2022, .	0.4	7
72	Semi-inclusive structure functions in the spectator model. <i>European Physical Journal A</i> , 2000, 9, 131-142.	2.5	5

#	ARTICLE	IF	CITATIONS
73	What can we learn from the breaking of the Wandzura-Wilczek relation?. , 2009, , .		5
74	Measurement of diffractive scattering of photons with large momentum transfer at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 219-226.	4.1	5
75	FLAVOR DEPENDENCE OF UNPOLARIZED TMDs FROM SEMI-INCLUSIVE PION PRODUCTION. International Journal of Modern Physics Conference Series, 2014, 25, 1460020.	0.7	5
76	Strangeness production at low Q^2 in deep-inelastic ep scattering at HERA. European Physical Journal C, 2009, 61, 185-205.	3.9	4
77	DETECTING CORRELATED DI-HADRON PAIRS: ABOUT THE EXTRACTION OF TRANSVERSITY AND BEYOND. International Journal of Modern Physics Conference Series, 2014, 25, 1460045.	0.7	3
78	Exploring the Flavor Dependence of Partonic Transverse Momentum. International Journal of Modern Physics Conference Series, 2015, 37, 1560024.	0.7	2
79	Dihadron Fragmentation Functions and Transversity. EPJ Web of Conferences, 2015, 85, 02025.	0.3	2
80	Internal Structure of the Pion Inspired by the AdS/QCD Correspondence. Few-Body Systems, 2016, 57, 443-447.	1.5	2
81	The Gauge-Field Propagator in Light-Cone Gauge: Which is the Correct One?. Few-Body Systems, 2017, 58, 1.	1.5	2
82	Status on the transversity parton distribution: the dihadron fragmentation functions way. , 2012, , .		2
83	Transverse-momentum-dependent parton distributions (TMDs). , 2011, , .		1
84	Dihadron fragmentation functions and their relevance for transverse spin studies. Journal of Physics: Conference Series, 2011, 295, 012053.	0.4	1
85	Phenomenology from SIDIS and $e^+e^- \rightarrow e^+e^- + \text{hadrons}$ multiplicities: multiplicities and phenomenology - part I. EPJ Web of Conferences, 2015, 85, 02016.	0.3	1
86	Quark angular momentum and the Sivers asymmetry. , 2012, , .		1
87	What can we learn from TMD measurements?. , 2009, , .		0
88	Transverse-momentum-dependent parton distributions in a spectator diquark model. Journal of Physics: Conference Series, 2009, 168, 012020.	0.4	0
89	Predictions for Transverse-Momentum Dependence in Electron-Positron Annihilation. International Journal of Modern Physics Conference Series, 2015, 37, 1560023.	0.7	0
90	The Electron in Three-Dimensional Momentum Space. Few-Body Systems, 2016, 57, 515-519.	1.5	0

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91	Global extraction of partonic transverse momentum distributions from semi-inclusive deep inelastic scattering and Drell-Yan data. Journal of Physics: Conference Series, 2017, 938, 012041.	0.4	0
92	Transverse Momentum in Semi-Inclusive DIS. , 2007, , .		0
93	DIS at low and high transverse momentum: matches and mismatches. , 2008, , .		0
94	DIS AT LOW AND HIGH TRANSVERSE MOMENTUM: MATCHES AND MISMATCHES. , 2009, , .		0
95	Phenomenology of unpolarized TMDs from Semi-Inclusive DIS data. , 2014, , .		0
96	Extraction of partonic transverse momentum distributions from semi-inclusive deep inelastic scattering and Drell-Yan data. , 2017, , .		0
97	Effect of flavor-dependent partonic transverse momentum on the determination of the W mass at hadron colliders. , 2019, , .		0
98	Lensing function relation in Hadrons. , 2019, , .		0
99	Spin and 3D structure of the nucleon. , 2019, , .		0
100	Lensing function relation in Hadrons. Journal of Physics: Conference Series, 2020, 1643, 012195.	0.4	0