

Alessandro Bacchetta

List of Publications by Year in descending order

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100
papers

6,105
citations

81900

39
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66911

78
g-index

101
all docs

101
docs citations

101
times ranked

3156
citing authors

#	ARTICLE	IF	CITATIONS
1	The 3-dimensional distribution of quarks in momentum space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136961.	4.1	19
2	A spectator-model way to transverse-momentum-dependent gluon distribution functions. SciPost Physics Proceedings, 2022, , .	0.4	7
3	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
4	Gluon TMDs and NRQCD matrix elements in ψ production at an EIC. European Physical Journal C, 2020, 80, 1.	3.9	31
5	Transverse-momentum-dependent parton distributions up to N3LL from Drell-Yan data. Journal of High Energy Physics, 2020, 2020, 1.	4.7	86
6	Transverse-momentum-dependent gluon distribution functions in a spectator model. European Physical Journal C, 2020, 80, 1.	3.9	42
7	Lensing function relation in Hadrons. Journal of Physics: Conference Series, 2020, 1643, 012195.	0.4	0
8	Difficulties in the description of Drell-Yan processes at moderate invariant mass and high transverse momentum. Physical Review D, 2019, 100, .	4.7	27
9	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
10	Revisiting model relations between T -odd transverse-momentum-dependent parton distributions and generalized parton distributions. Physical Review D, 2019, 100, .	4.7	12
11	Effect of flavor-dependent partonic transverse momentum on the determination of the W boson mass in hadronic collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 542-545.	4.1	24
12	QCD—QED evolution of TMDs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 280-287.	4.1	7
13	Effect of flavor-dependent partonic transverse momentum on the determination of the W mass at hadron colliders. , 2019, , .		0
14	Lensing function relation in Hadrons. , 2019, , .		0
15	Spin and 3D structure of the nucleon. , 2019, , .		0
16	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
17	First Extraction of Transversity from a Global Analysis of Electron-Proton and Proton-Proton Data. Physical Review Letters, 2018, 120, 192001.	7.8	77
18	Semi-inclusive production of two back-to-back hadron pairs in $e^+e^- \rightarrow e^+e^- + \text{hadron pairs}$ annihilation revisited. Physical Review D, 2018, 97, .	4.7	15

#	ARTICLE	IF	CITATIONS
19	The Gauge-Field Propagator in Light-Cone Gauge: Which is the Correct One?. Few-Body Systems, 2017, 58, 1.	1.5	2
20	Reconstructing parton densities at large fractional momenta. Physical Review D, 2017, 95, .	4.7	16
21	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
22	The transverse structure of the pion in momentum space inspired by the AdS/QCD correspondence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 546-552.	4.1	31
23	Accessing the nucleon transverse structure in inclusive deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 632-638.	4.1	18
24	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
25	Extraction of partonic transverse momentum distributions from semi-inclusive deep inelastic scattering and Drell-Yan data. , 2017, , .		0
26	The Electron in Three-Dimensional Momentum Space. Few-Body Systems, 2016, 57, 515-519.	1.5	0
27	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	2.5	898
28	Electron in three-dimensional momentum space. Physical Review D, 2016, 93, .	4.7	13
29	Internal Structure of the Pion Inspired by the AdS/QCD Correspondence. Few-Body Systems, 2016, 57, 443-447.	1.5	2
30	Exploring universality of transversity in proton-proton collisions. Physical Review D, 2016, 94, .	4.7	24
31	Revisiting the equivalence of light-front and covariant QED in the light-cone gauge. Physical Review D, 2016, 94, .	4.7	9
32	Where do we stand with a 3-D picture of the proton?. European Physical Journal A, 2016, 52, 1.	2.5	29
33	Improved extraction of valence transversity distributions from inclusive dihadron production. Journal of High Energy Physics, 2015, 2015, 1.	4.7	88
34	Effects of TMD evolution and partonic flavor on $e^+e^- \rightarrow \text{hadrons}$ annihilation into hadrons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
35	Predictions for Transverse-Momentum Dependence in Electron-Positron Annihilation. International Journal of Modern Physics Conference Series, 2015, 37, 1560023.	0.7	0
36	Exploring the Flavor Dependence of Partonic Transverse Momentum. International Journal of Modern Physics Conference Series, 2015, 37, 1560024.	0.7	2

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37	Dihadron Fragmentation Functions and Transversity. EPJ Web of Conferences, 2015, 85, 02025.	0.3	2
38	Phenomenology from SIDIS and $e^+e^- \rightarrow e^+e^- \gamma^* \rightarrow$ multiplicities: multiplicities and phenomenology - part I. EPJ Web of Conferences, 2015, 85, 02016.	0.3	1
39	Publisher's Note: Production of two hadrons in semi-inclusive deep inelastic scattering [Phys. Rev. D 90 , 114027 (2014)]. Physical Review D, 2015, 91, .	4.7	11
40	Transverse Momentum Dependent (TMD) Parton Distribution Functions: Status and Prospects. Acta Physica Polonica B, 2015, 46, 2501.	0.8	192
41	Production of two hadrons in semi-inclusive deep inelastic scattering. Physical Review D, 2014, 90, .	4.7	22
42	FLAVOR DEPENDENCE OF UNPOLARIZED TMDs FROM SEMI-INCLUSIVE PION PRODUCTION. International Journal of Modern Physics Conference Series, 2014, 25, 1460020.	0.7	5
43	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
44	Phenomenology of unpolarized TMDs from Semi-Inclusive DIS data. , 2014, , .		0
45	First extraction of valence transversities in a collinear framework. Journal of High Energy Physics, 2013, 2013, 1.	4.7	95
46	Investigations into the flavor dependence of partonic transverse momentum. Journal of High Energy Physics, 2013, 2013, 1.	4.7	98
47	Evolution of the helicity and transversity. Transverse-momentum-dependent parton distributions. Nuclear Physics B, 2013, 875, 536-551.	2.5	59
48	First extraction of interference fragmentation functions from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">e^+e^- \rightarrow e^+e^- \gamma^* \rightarrow$ Physical Review D, 2012, 85, .	4.7	54
49	Status on the transversity parton distribution: the dihadron fragmentation functions way. , 2012, , .		2
50	Quark angular momentum and the Sivers asymmetry. , 2012, , .		1
51	First Glances at the Transversity Parton Distribution through Dihadron Fragmentation Functions. Physical Review Letters, 2011, 107, 012001.	7.8	81
52	Transverse-momentum-dependent parton distributions (TMDs). , 2011, , .		1
53	Dihadron fragmentation functions and their relevance for transverse spin studies. Journal of Physics: Conference Series, 2011, 295, 012053.	0.4	1
54	Constraining Quark Angular Momentum through Semi-Inclusive Measurements. Physical Review Letters, 2011, 107, 212001.	7.8	78

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55	Weighted azimuthal asymmetries in a diquark spectator model. European Physical Journal A, 2010, 45, 373-388.	2.5	29
56	A method for tuning parameters of Monte Carlo generators and its application to the determination of the unintegrated gluon density. European Physical Journal C, 2010, 70, 503-511.	3.9	8
57	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
58	What can we learn from TMD measurements?. , 2009, , .		0
59	Asymmetries involving dihadron fragmentation functions: From DIS to $\langle \frac{d\sigma}{dQ^2 dx_1 dx_2} \rangle$. Physical Review D, 2009, 79, .	4.7	35
60	What can we learn from the breaking of the Wandzura-Wilczek relation?. , 2009, , .		5
61	What can break the Wandzura-Wilczek relation?. Journal of High Energy Physics, 2009, 2009, 093-093.	4.7	57
62	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
63	Study of charm fragmentation into D^{\pm} mesons in deep-inelastic scattering at HERA. European Physical Journal C, 2009, 59, 589-606.	3.9	26
64	Strangeness production at low Q^2 in deep-inelastic ep scattering at HERA. European Physical Journal C, 2009, 61, 185-205.	3.9	4
65	Observation of the Naive- T -Odd Sivers Effect in Deep-Inelastic Scattering. Physical Review Letters, 2009, 103, 152002.	7.8	260
66	Transverse-momentum-dependent parton distributions in a spectator diquark model. Journal of Physics: Conference Series, 2009, 168, 012020.	0.4	0
67	DIS AT LOW AND HIGH TRANSVERSE MOMENTUM: MATCHES AND MISMATCHES. , 2009, , .		0
68	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
69	Measurement of the proton structure function F_2 . Particle and High-Energy Physics, 2008, 665, 139-146.	4.1	89
70	Search for excited electrons in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 131-139.	4.1	15
71	Multi-lepton production at high transverse momenta in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 668, 268-276.	4.1	13
72	Transverse-momentum distributions in a diquark spectator model. Physical Review D, 2008, 78, .	4.7	200

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73	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
74	Evidence for a transverse single-spin asymmetry in lepton production of $\bar{l}\langle\sup\rangle+\langle\sup\rangle\bar{l}\langle\sup\rangle\hat{a}^{\prime}\langle\sup\rangle$ pairs. Journal of High Energy Physics, 2008, 2008, 017-017.	4.7	49
75	DIS at low and high transverse momentum: matches and mismatches. , 2008, , .		0
76	Semi-inclusive deep inelastic scattering at small transverse momentum. Journal of High Energy Physics, 2007, 2007, 093-093.	4.7	455
77	Sivers Single-Spin Asymmetry in Photon-Jet Production. Physical Review Letters, 2007, 99, 212002.	7.8	40
78	Transverse-Momentum Dependent Functions in Semi-Inclusive DIS. AIP Conference Proceedings, 2007, , .	0.4	11
79	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
80	Evolution equations for extended dihadron fragmentation functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 81-89.	4.1	39
81	Transverse Momentum in Semi-Inclusive DIS. , 2007, , .		0
82	Modeling dihadron fragmentation functions. Physical Review D, 2006, 74, .	4.7	50
83	Subleading-twist effects in single-spin asymmetries in semi-inclusive deep-inelastic scattering on a longitudinally polarized hydrogen target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 622, 14-22.	4.1	42
84	Single spin asymmetries in hadron-hadron collisions. Physical Review D, 2005, 72, .	4.7	90
85	Reviewing model calculations of the Collins fragmentation function. Physical Review D, 2005, 71, .	4.7	56
86	Single-Spin Asymmetries in Semi-Inclusive Deep-Inelastic Scattering on a Transversely Polarized Hydrogen Target. Physical Review Letters, 2005, 94, 012002.	7.8	466
87	Dihadron interference fragmentation functions in proton-proton collisions. Physical Review D, 2004, 70, .	4.7	34
88	Single-spin asymmetries: The Trento conventions. Physical Review D, 2004, 70, .	4.7	280
89	Two-hadron semi-inclusive production including subleading twist contributions. Physical Review D, 2004, 69, .	4.7	63
90	Azimuthal single spin asymmetries in SIDIS in the light of chiral symmetry breaking. Nuclear Physics A, 2004, 732, 106-124.	1.5	22

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91	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
92	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
93	Collins fragmentation function from gluon rescattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 574, 225-231.	4.1	25
94	Partial-wave analysis of two-hadron fragmentation functions. Physical Review D, 2003, 67, .	4.7	72
95	Estimate of the Collins fragmentation function in a chiral invariant approach. Physical Review D, 2002, 65, .	4.7	48
96	The Collins fragmentation function: a simple model calculation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 506, 155-160.	4.1	40
97	Positivity bounds on spin-one distribution and fragmentation functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 518, 85-93.	4.1	15
98	Semi-inclusive structure functions in the spectator model. European Physical Journal A, 2000, 9, 131-142.	2.5	5
99	Bounds on Transverse Momentum Dependent Distribution and Fragmentation Functions. Physical Review Letters, 2000, 85, 712-715.	7.8	128
100	Deep inelastic leptonproduction of spin-one hadrons. Physical Review D, 2000, 62, .	4.7	76