

Lech Szymanowski

List of Publications by Year in descending order

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163
papers

3,781
citations

126907

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155660

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171
all docs

171
docs citations

171
times ranked

3904
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenomenology of diphoton photoproduction at next-to-leading order. Physical Review D, 2022, 105, .	4.7	13
2	Accessing quark GPDs in diffractive events at an electron-ion collider. SciPost Physics Proceedings, 2022, , .	0.4	0
3	NLO collinear factorization of large mass diphoton photoproduction amplitude. SciPost Physics Proceedings, 2022, , .	0.4	0
4	Exclusive electro-weak production of a charmed meson at high energy. SciPost Physics Proceedings, 2022, , .	0.4	0
5	Transition distribution amplitudes and hard exclusive reactions with baryon number transfer. Physics Reports, 2021, 940, 1-121.	25.6	14
6	Charged current electroproduction of a charmed meson at an electron-ion collider. Physical Review D, 2021, 104, .	4.7	8
7	Progress and opportunities in backward angle (u-channel) physics. European Physical Journal A, 2021, 57, 1.	2.5	10
8	Collinear factorization of diphoton photoproduction at next to leading order. Physical Review D, 2021, 104, .	4.7	9
9	Electroproduction of a large invariant mass photon pair. Physical Review D, 2020, 101, .	4.7	17
10	Diffractive two-meson electroproduction with a nucleon and deuteron target. Physical Review D, 2020, 102, .	4.7	4
11	Diffractive deeply virtual Compton scattering. Physical Review D, 2020, 101, .	4.7	12
12	Probing the Gluon Sivers Function with an Unpolarized Target: GTMD Distributions and the Odderons. Physical Review Letters, 2020, 124, 172501.	7.8	13
13	Towards a complete next-to-logarithmic description of forward exclusive diffractive dijet electroproduction at HERA: Real corrections. Physical Review D, 2019, 100, .	4.7	21
14	Unique Access to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle u \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Channel Physics: Exclusive Backward-Angle Omega Meson Electroproduction. Physical Review Letters, 2019, 123, 182501.	7.8	15
15	Single-transverse-spin asymmetries in exclusive photo-production of J/ψ in ultra-peripheral collisions in the fixed-target mode at the LHC and in the collider mode at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 33-40.	4.1	11
16	Inverse Radon transform and the transverse-momentum dependent functions. Physical Review D, 2019, 100, .	4.7	0
17	Probing Generalized Parton Distributions Through the Photoproduction of a $\gamma \pi$ Pair. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 855.	0.1	0
18	Probing quark transversity GPDs in diffractive photo- and electroproduction on the deuteron. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Exclusive production of a large mass photon pair. , 2019, , .		0
20	Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC). EPJ Web of Conferences, 2018, 171, 10001.	0.3	4
21	Forward J/ψ and very backward jet inclusive production at the LHC. Physical Review D, 2018, 97, .	4.7	29
22	Probing axial quark generalized parton distributions through exclusive photoproduction of a Υ pair with a large invariant mass. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
23	Gluon poles and photon distribution amplitudes in Drell-Yan-like processes. European Physical Journal A, 2018, 54, 1.	2.5	1
24	Nucleon and Nuclear Structure Through Dilepton Production. Acta Physica Polonica B, 2018, 49, 741.	0.8	17
25	Title is missing!. , 2018, , .		0
26	Corrigendum to "QCD description of charmonium plus light meson production in $p\bar{p}$ annihilation". [Phys. Lett. B 724 (2013) 99]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 335.	4.1	4
27	Impact factor for exclusive diffractive dijet production with NLO accuracy. AIP Conference Proceedings, 2017, , .	0.4	0
28	Accessing generalized parton distributions in exclusive photoproduction of a Υ pair with a large invariant mass. AIP Conference Proceedings, 2017, , .	0.4	4
29	Backward charmonium production in ΥN collisions. Physical Review D, 2017, 95, .	4.7	10
30	Exclusive photoproduction of a Υ pair with a large invariant mass. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
31	Exclusive neutrino production of a charmed vector meson and transversity gluon generalized parton distributions. Physical Review D, 2017, 96, .	4.7	8
32	Exclusive neutrino production of a charmed meson. Physical Review D, 2017, 95, .	4.7	18
33	Baryon-to-Meson Transition Distribution Amplitudes: Formalism and Models. Few-Body Systems, 2017, 58, 1.	1.5	1
34	Drell-Yan-like processes and duality. Physical Review D, 2017, 95, .	4.7	6
35	Hard exclusive neutrino production of a light meson. Physical Review D, 2017, 95, .	4.7	9
36	Hard photoproduction of a diphoton with a large invariant mass. Physical Review D, 2017, 96, .	4.7	24

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37	Angular distributions in pion-nucleon Drell-Yan process. Journal of Physics: Conference Series, 2017, 938, 012065.	0.4	2
38	Study of Spin through Gluon Poles. Journal of Physics: Conference Series, 2017, 938, 012039.	0.4	2
39	Next-to-Leading Order Computation of Exclusive Diffractive Light Vector Meson Production in a Saturation Framework. Physical Review Letters, 2017, 119, 072002.	7.8	61
40	NLO exclusive diffractive processes with saturation. , 2017, , .		1
41	Revealing transversity GPDs through the photoproduction of a photon and a $\langle i \rangle \bar{\chi} / i \rangle$ meson. EPJ Web of Conferences, 2016, 112, 01006.	0.3	4
42	High-energy resummation effects in the production of Mueller-Navelet dijets at the LHC. EPJ Web of Conferences, 2016, 112, 02015.	0.3	0
43	Probing the transversity spin structure of a nucleon in neutrino-production of a charmed meson. EPJ Web of Conferences, 2016, 112, 01018.	0.3	7
44	GPDs in heavy meson production and Compton scattering. EPJ Web of Conferences, 2016, 112, 01020.	0.3	2
45	LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.	3.6	99
46	The spin dependent odderon in the diquark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 249-253.	4.1	17
47	On the one loop $\hat{\Gamma}^3 \hat{\alpha} - \hat{\alpha} \Gamma^3 q q \hat{\Lambda} \gamma^{\left(\ast \text{ight}\right)} \circ \overline{q} \gamma^{\left(\ast \text{ight}\right)} q$ impact factor and the exclusive diffractive cross sections for the production of two or three jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	58
48	Sudakov resummations in Mueller-Navelet dijet production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
49	NLO impact factor for diffractive dijet production in the shockwave formalism. , 2016, , .		0
50	QCD description of backward vector meson hard electroproduction. Physical Review D, 2015, 91, .	4.7	13
51	Evaluating the double parton scattering contribution to Mueller-Navelet jets production at the LHC. Physical Review D, 2015, 92, .	4.7	33
52	Neutrino Production of a Charmed Meson and the Transverse Spin Structure of the Nucleon. Physical Review Letters, 2015, 115, 092001.	7.8	22
53	Lepton-pair production in ultraperipheral collisions at AFTER@LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	15
54	Impact factor for high-energy two and three jets diffractive production. AIP Conference Proceedings, 2015, , .	0.4	1

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55	Probing GPDs in ultraperipheral collisions. AIP Conference Proceedings, 2015, , .	0.4	2
56	Transverse Momentum Dependent (TMD) Parton Distribution Functions: Status and Prospects. Acta Physica Polonica B, 2015, 46, 2501.	0.8	192
57	Accessing Transversity GPDs in Neutrino Production of a Charmed Meson. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 883.	0.1	3
58	Photon Dissociation into Two and Three Jets: Initial and Final State Corrections. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 897.	0.1	2
59	Mueller-Navelet Jets at the LHC. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 923.	0.1	0
60	Ï€NTDAs from charmonium production in association with a forward pion at PÏ€ANDA. EPJ Web of Conferences, 2014, 73, 05006.	0.3	5
61	Violation of energyâmomentum conservation in MuellerâNavelet jets production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 311-316.	4.1	27
62	Nucleon-to-Pion Transition Distribution Amplitudes: A Challenge for PÏ€ANDA. Few-Body Systems, 2014, 55, 351-356.	1.5	3
63	Evidence for High Energy Resummation Effects in Mueller-Navelet Jets at the LHC. Physical Review Letters, 2014, 112, .	7.8	94
64	Impact factor for high-energy two and three jets diffractive production. Journal of High Energy Physics, 2014, 2014, 1.	4.7	35
65	On Deeply Virtual Compton Scattering at Next-to-Leading Order. Few-Body Systems, 2014, 55, 339-349.	1.5	1
66	Cross-channel analysis of quark and gluon generalized parton distributions with helicity flip. European Physical Journal A, 2014, 50, 1.	2.5	5
67	Next to leading order analysis of DVCS and TCS. EPJ Web of Conferences, 2014, 66, 06016.	0.3	1
68	Mueller Navelet jets at LHC: an observable to reveal high energy resummation effects?. , 2014, , .		0
69	Confronting BFKL dynamics with experimental studies of Mueller-Navelet jets at the LHC. , 2014, , .		1
70	High Energy Rho Meson Leptoproduction Å§. Open Physics Journal, 2014, 1, 33-35.	1.0	0
71	Confronting Mueller-Navelet jets in NLL BFKL with LHC experiments at 7 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	79
72	QCD description of charmonium plus light meson production in $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$	4.1	24

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73	Saturation effects in exclusive $\bar{\nu}_\tau, L$ meson electroproduction. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
74	The dipole representation of vector meson electroproduction beyond leading twist. Nuclear Physics B, 2013, 867, 19-60.	2.5	11
75	Publisher's Note: Accessing baryon to meson transition distribution amplitudes in meson production in association with a high invariant mass lepton pair at GSI-FAIR with $\langle \mathcal{P} \rangle$ ANDA . Physical Review D, 2013, 87, .	4.7	2
76	Timelike and spacelike deeply virtual Compton scattering at next-to-leading order. Physical Review D, 2013, 87, .	4.7	52
77	A model for high energy rho meson leptonproduction based on collinear factorization and dipole models. , 2013, , .		0
78	Mueller Navelet jets at LHC: a clean test of QCD resummation effects at high energy?. , 2013, , .		1
79	Timelike and spacelike hard exclusive reactions. Physical Review D, 2012, 86, .	4.7	47
80	Accessing baryon to meson transition distribution amplitudes in meson production in association with a high invariant mass lepton pair at GSI-FAIR with $\langle \mathcal{P} \rangle$ ANDA. Physical Review D, 2012, 86, .	4.7	24
81	A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 075001.	3.6	406
82	Resumming soft and collinear contributions in deeply virtual Compton scattering. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
83	Consistent model for $\langle \mathcal{P} \rangle$ transition distribution amplitudes and backward pion electroproduction. Physical Review D, 2012, 85, .	4.7	27
84	On Timelike Compton Scattering at Medium and High Energies. Few-Body Systems, 2012, 53, 125-131.	1.5	3
85	Mueller Navelet jets at LHC: the first complete NLL BFKL study. , 2012, , .		1
86	Next-to-leading order corrections to timelike, spacelike, and double deeply virtual Compton scattering. Physical Review D, 2011, 83, .	4.7	60
87	Phenomenological study of helicity amplitudes of high energy exclusive leptonproduction of the $\langle \mathcal{P} \rangle$ meson. Physical Review D, 2011, 84, .	4.7	33
88	$\langle \mathcal{P} \rangle$ transition distribution amplitudes: Their symmetries and constraints from chiral dynamics. Physical Review D, 2011, 84, .	4.7	21
89	New ways to access the transverse spin content of the nucleon. Journal of Physics: Conference Series, 2011, 295, 012047.	0.4	0
90	Spin Observables in Transition-Distribution-Amplitude Studies. Journal of Physics: Conference Series, 2011, 295, 012090.	0.4	6

#	ARTICLE	IF	CITATIONS
109	Transition Distribution Amplitudes for $\hat{1}^3\hat{a}\langle\hat{1}^3$ collisions. Nuclear Physics, Section B, Proceedings Supplements, 2008, 184, 239-242.	0.4	2
110	Probing Transversity GPDs in Photo and Electroproduction of Two Vector Mesons. Nuclear Physics, Section B, Proceedings Supplements, 2008, 184, 243-246.	0.4	0
111	Hard Pomeron-odderon interference effects in the production of $\hat{1}^3\hat{a}\langle\hat{1}^3$ pairs in high energy $\hat{1}^3\hat{1}^3$ collisions at the LHC. Physical Review D, 2008, 78, .	4.7	16
112	Diphoton generalized distribution amplitudes. Physical Review D, 2008, 78, .	4.7	13
113	Two Photon Distribution Amplitudes. AIP Conference Proceedings, 2008, , .	0.4	0
114	TRANSITION DISTRIBUTION AMPLITUDES. , 2008, , .		3
115	Exclusive $\hat{1}^3\hat{a}\langle\hat{1}^3$ and $\hat{1}^3\hat{a}\langle\hat{1}^3$ hadroproduction and the QCD odderon. Physical Review D, 2007, 75, .	4.7	39
116	Hard exclusive electroproduction of a pion in the backward region. Physical Review D, 2007, 75, .	4.7	32
117	Production of a pion in association with a high-Q ² dilepton pair in antiproton-proton annihilation at GSI-FAIR. Physical Review D, 2007, 76, .	4.7	32
118	Exploring backward pion electroproduction in the scaling regime. AIP Conference Proceedings, 2007, , .	0.4	2
119	Backward DVCS and Proton to Photon Transition Distribution Amplitudes. Nuclear Physics A, 2007, 782, 16-23.	1.5	13
120	Deeply virtual Compton scattering on a photon and generalized parton distributions in the photon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 153-160.	4.1	27
121	Diffraction production of two $\hat{1}^3\hat{a}\langle\hat{1}^3$ mesons in $e+e-$ collisions. European Physical Journal C, 2007, 52, 93-112.	3.9	19
122	Hard exclusive reactions and hadron structure. Nuclear Physics A, 2007, 782, 9-15.	1.5	0
123	Exclusive meson pair production in $\hat{1}^3\hat{a}\langle\hat{1}^3$ scattering at small momentum transfer. Physical Review D, 2006, 73	4.7	26
124	QCD factorizations in $\langle\text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	4.1	12
125	BFKL resummation effects in $\hat{1}^3\hat{a}\langle\hat{1}^3$ $\hat{a}\langle\hat{1}^3$. European Physical Journal C, 2006, 45, 759-769.	3.9	34
126	On exotic hybrid meson production in $\hat{1}^3\hat{1}^3$ collisions. European Physical Journal C, 2006, 47, 71-79.	3.9	8

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127	Transversity GPD in photoproduction and electroproduction of two vector mesons. European Physical Journal C, 2006, 47, 87-94.	3.9	37
128	at very high energy. Nuclear Physics A, 2005, 755, 626-629.	1.5	2
129	$\bar{c}c$ pair hard electroproduction and exotic hybrid mesons. Nuclear Physics A, 2005, 755, 561-564.	1.5	2
130	QCD analysis of $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	4.1	59
131	Exclusive production of pentaquarks in the scaling regime. Nuclear Physics A, 2005, 755, 553-556.	1.5	1
132	On BLM scale fixing in exclusive processes. European Physical Journal C, 2005, 42, 163-168.	3.9	17
133	Double diffractive ρ^0 -production in $\gamma^* \gamma^*$ collisions. European Physical Journal C, 2005, 44, 545-558.	3.9	29
134	Hard exclusive production of a vector meson. Nuclear Physics, Section B, Proceedings Supplements, 2005, 146, 134-136.	0.4	5
135	Hard electroproduction of hybrid mesons. European Physical Journal D, 2005, 55, A229-A234.	0.4	0
136	Probing the partonic structure of exotic particles in hard electroproduction. AIP Conference Proceedings, 2005, , .	0.4	0
137	Hadron annihilation into two photons and backward virtual Compton scattering in the scaling regime of QCD. Physical Review D, 2005, 71, .	4.7	59
138	Exotic hybrid mesons in hard electroproduction. Physical Review D, 2005, 71, .	4.7	19
139	Deep electroproduction of exotic hybrid mesons. Physical Review D, 2004, 70, .	4.7	21
140	Vector meson electroproduction at next-to-leading order. JETP Letters, 2004, 80, 226-230.	1.4	42
141	Exclusive photoproduction of a heavy vector meson in QCD. European Physical Journal C, 2004, 34, 297-316.	3.9	79
142	The Hilbert-Space Structure of Non-Hermitian Theories with Real Spectra. European Physical Journal D, 2004, 54, 71-75.	0.4	24
143	Quasi-Hermiticity in infinite-dimensional Hilbert spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 325, 112-117.	2.1	61
144	Probing the partonic structure of pentaquarks in hard electroproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 58-70.	4.1	13

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145	Perturbative odderon in the dipole model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 267-281.	4.1	83
146	Pomeron-Odderon interference effects in electroproduction of $\pi^+\pi^-$. Nuclear Physics, Section B, Proceedings Supplements, 2003, 121, 155-159.	0.4	1
147	Charge and spin asymmetries from Pomeron-Odderon interference. Nuclear Physics, Section B, Proceedings Supplements, 2003, 117, 437-439.	0.4	0
148	Impact representation of generalized distribution amplitudes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 556, 129-134.	4.1	28
149	Exclusive Photoproduction of Hard Dijets and Magnetic Susceptibility of the QCD Vacuum. Physical Review Letters, 2002, 89, 172001.	7.8	25
150	Towards the theory of coherent hard dijet production on hadrons and nuclei. Nuclear Physics B, 2002, 638, 111-154.	2.5	31
151	Hunting the QCD-Odderon in hard diffractive electroproduction of two pions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 535, 117-126.	4.1	49
152	Probing chiral-odd GPDs in diffractive electroproduction of two vector mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 550, 65-76.	4.1	72
153	The charge asymmetry from pomeron ^o odderon interference in hard diffractive π -electroproduction. Nuclear Physics A, 2002, 711, 232-235.	1.5	3
154	Pomeron-Odderon interference effects in electroproduction of two pions. European Physical Journal C, 2002, 26, 261-270.	3.9	50
155	QCD factorization for the pion diffractive dissociation to two jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 509, 43-52.	4.1	23
156	Direct π^0 hadroproduction in k_T factorization and the color octet mechanism. Physical Review D, 2001, 63, .	4.7	60
157	Towards a Solution of the Charmonium Production Controversy: k_T Factorization versus Color-Octet Mechanism. Physical Review Letters, 2001, 86, 1446-1449.	7.8	82
158	Light vector meson photoproduction at large t . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 101-113.	4.1	24
159	Tensor polarization of vector mesons from quark and gluon fragmentation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 94-100.	4.1	15
160	Diffractive meson production from virtual photons with odd charge-parity exchange. European Physical Journal C, 1998, 4, 93-99.	3.9	36
161	Diffractive meson production from virtual photons with odd charge-parity exchange. European Physical Journal C, 1998, 4, 93.	3.9	5
162	Symmetry properties of the effective action for high-energy scattering in QCD. Physical Review D, 1995, 51, 838-855.	4.7	36

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163	Effective action for multi-Regge processes in QCD. Nuclear Physics B, 1994, 425, 579-594.	2.5	52