

Krzysztof J Golec-Biernat

List of Publications by Year in descending order

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73
papers

4,550
citations

201674

27
h-index

98798

67
g-index

73
all docs

73
docs citations

73
times ranked

3440
citing authors

#	ARTICLE	IF	CITATIONS
1	Saturation effects in deep inelastic scattering at low Q^2 and its implications on diffraction. <i>Physical Review D</i> , 1998, 59, .	4.7	894
2	Saturation in diffractive deep inelastic scattering. <i>Physical Review D</i> , 1999, 60, .	4.7	576
3	Geometric Scaling for the Total σ^*_{p} Cross Section in the Low x Region. <i>Physical Review Letters</i> , 2001, 86, 596-599.	7.8	437
4	Modification of the saturation model: Dokshitzer-Gribov-Lipatov-Altarelli-Parisi evolution. <i>Physical Review D</i> , 2002, 66, .	4.7	304
5	A measurement and QCD analysis of the proton structure function $F_2(x, Q^2)$ at HERA. <i>Nuclear Physics B</i> , 1996, 470, 3-38.	2.5	184
6	Off-diagonal distributions fixed by diagonal partons at small x and $\hat{r}^3/4$. <i>Physical Review D</i> , 1999, 60, .	4.7	176
7	On solutions of the Balitsky-Kovchegov equation with impact parameter. <i>Nuclear Physics B</i> , 2003, 668, 345-363.	2.5	132
8	Diffusion into infrared and unitarization of the BalitskiĀ-Fadin-Kuraev-Lipatov Pomeron. <i>Physical Review D</i> , 2002, 65, .	4.7	126
9	Diffractive parton distributions from the saturation model. <i>European Physical Journal C</i> , 2001, 20, 313-321.	3.9	99
10	LHC forward physics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 110201.	3.6	99
11	A measurement of the proton structure function $F_2(x, Q^2)$ at low x and low Q^2 at HERA. <i>Nuclear Physics B</i> , 1997, 497, 3-28.	2.5	95
12	Inclusive D^0 and D^{\pm} production in neutral current deep inelastic scattering at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 593-605.	1.5	93
13	Elastic and inelastic photoproduction of J/ψ mesons at HERA. <i>Nuclear Physics B</i> , 1996, 472, 3-31.	2.5	89
14	Generalized parton distributions of the pion in chiral quark models and their QCD evolution. <i>Physical Review D</i> , 2008, 77, .	4.7	81
15	Measurement of charged particle transverse momentum spectra in deep inelastic scattering. <i>Nuclear Physics B</i> , 1997, 485, 3-22.	2.5	79
16	Elastic electroproduction of ρ^{\pm} and mesons at large Q^2 at HERA. <i>Nuclear Physics B</i> , 1996, 468, 3-33.	2.5	77
17	Determination of the longitudinal proton structure function $F_L(x, Q^2)$ at low x . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 393, 452-464.	4.1	76
18	Off-diagonal parton distributions and their evolution. <i>Physical Review D</i> , 1998, 59, .	4.7	60

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19	Photoproduction of mesons in electron-proton collisions at HERA. Nuclear Physics B, 1996, 472, 32-51.	2.5	52
20	Saturation model of DIS: an update. Journal of High Energy Physics, 2018, 2018, 1.	4.7	47
21	A search for leptoquarks at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 369, 173-185.	4.1	43
22	High energy asymptotics of scattering processes in QCD. Physical Review D, 2005, 72, .	4.7	42
23	An estimate of higher twist at small x_{Bj} and low Q^2 based upon a Saturation Model. European Physical Journal C, 2000, 17, 121-128.	3.9	38
24	Charged particle multiplicities in deep inelastic scattering at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 573-592.	1.5	37
25	QCD analysis of deep inelastic diffractive scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 329-334.	4.1	32
26	Strangeness production in deep-inelastic positron-proton scattering at HERA. Nuclear Physics B, 1996, 480, 3-34.	2.5	27
27	Nonlinear equation for coherent gluon emission. Journal of High Energy Physics, 2012, 2012, 1.	4.7	27
28	Constraining the double gluon distribution by the single gluon distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 559-564.	4.1	27
29	On the use of the KMR unintegrated parton distribution functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 633-638.	4.1	26
30	Measurement of the Q^2 dependence of the charged and neutral current cross sections in $e\hat{A}p$ scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 379, 319-329.	4.1	25
31	Implications of scaling violations of F_2 at HERA for perturbative QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 325, 212-218.	4.1	24
32	Evolution of ep fragmentation and multiplicity distributions in the Breit frame. Nuclear Physics B, 1997, 504, 3-23.	2.5	24
33	$\int_0^1 dx F_L(x, Q^2)$ proton structure function from the unified DGLAP/BFKL approach. Physical Review D, 2009, 80, .	4.7	24
34	Generalized Valon Model for Double Parton Distributions. Few-Body Systems, 2016, 57, 405-410.	1.5	23
35	QCD predictions for the transverse energy flow in deep-inelastic scattering in the DESY HERA small x regime. Physical Review D, 1994, 50, 217-225.	4.7	22
36	Testing saturation with diffractive jet production in deep inelastic scattering. Physical Review D, 2005, 71, .	4.7	20

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37	Heavy flavor production in DGLAP improved saturation model. Physical Review D, 2006, 74, .	4.7	20
38	Forward Drell-Yan and backward jet production as a probe of the BFKL dynamics. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
39	Transverse energy flow at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 335, 220-225.	4.1	19
40	Diagonal input for the evolution of off-diagonal partons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 456, 232-239.	4.1	19
41	Electroweak boson production in double parton scattering. Physical Review D, 2014, 90, .	4.7	19
42	Reggeon and pion contributions in semiexclusive diffractive processes at DESY HERA. Physical Review D, 1997, 56, 3955-3960.	4.7	18
43	How to impose initial conditions for QCD evolution of double parton distributions?. Physical Review D, 2014, 90, .	4.7	17
44	Diffractive dijet photoproduction as a probe of the off-diagonal gluon distribution. Physical Review D, 1998, 58, .	4.7	15
45	Twist expansion of the nucleon structure functions , F_2 , and F_L , in the DGLAP improved saturation model. Physical Review D, 2010, 81, .	4.7	14
46	Drell-Yan process at forward rapidity at the LHC. Physical Review D, 2010, 82, .	4.7	14
47	Saturation and geometric scaling in DIS at small x. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1057-1067.	3.6	13
48	Search for excited fermions with the H1 detector. Nuclear Physics B, 1997, 483, 44-64.	2.5	12
49	A search for selectrons and squarks at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 380, 461-470.	4.1	11
50	Total, elastic and diffractive cross sections at LHC in the Miettinenâ€™Pumplin model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 613, 154-161.	4.1	10
51	Diffractive parton distributions from the analysis with higher twist. Physical Review D, 2007, 76, .	4.7	10
52	Dipole model analysis of the newest diffractive deep inelastic scattering data. Physical Review D, 2009, 79, .	4.7	10
53	Recombination effects in the structure function evolution at low x. Can they be observed at HERA?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 367-372.	4.1	9
54	Subleading Reggeons in deep inelastic diffractive scattering at DESY HERA. Physical Review D, 1997, 55, 3209-3211.	4.7	9

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55	Diffractive production of electroweak vector bosons at the LHC. <i>Physical Review D</i> , 2010, 81, .	4.7	8
56	Unintegrated double parton distributions. <i>Physical Review D</i> , 2017, 95, .	4.7	7
57	Numerical analysis of the unintegrated double gluon distribution. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	7
58	Electroweak vector boson production at the LHC as a probe of mechanisms of diffraction. <i>Physical Review D</i> , 2011, 84, .	4.7	6
59	Prompt photon production in proton collisions as a probe of parton scattering in high energy limit. <i>Physical Review D</i> , 2021, 103, .	4.7	5
60	QCD coherence in deep inelastic scattering at small x at HERA. <i>Nuclear Physics B</i> , 1998, 527, 289-307.	2.5	4
61	QCD: quantum chromodynamic diffraction. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1996, 22, 921-927.	3.6	3
62	Scale influence on the energy dependence of photon-proton cross sections. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 392, 234-242.	4.1	3
63	Theoretical review of diffractive phenomena. <i>Nuclear Physics A</i> , 2005, 755, 133-142.	1.5	3
64	Drell-Yan production with the CCFM-K evolution. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	3
65	Gluons from logarithmic slopes of F2 in the NLL approximation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 328, 495-498.	4.1	2
66	Initial conditions and evolution of off-diagonal distributions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 79, 365-367.	0.4	1
67	Diffractive parton distributions from the analysis with higher twist. , 2009, , .		1
68	Unintegrated double parton distributions - A summary. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
69	Skewed distributions fixed by diagonal partons at small x, $\hat{1}/4$, and at HERA. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 79, 362-364.	0.4	0
70	Evolution equations for the double parton distributions. Initial conditions and transverse momentum dependence. <i>EPJ Web of Conferences</i> , 2017, 141, 06001.	0.3	0
71	Title is missing!. , 2017, , .		0
72	Probing BFKL Dynamics with Forward Drell-Yan Lepton-pair and Backward Jet. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2019, 12, 897.	0.1	0

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73	Drell-Yan plus jet production and BFKL evolution. , 2019, , .		0