Abolfazl Mirjalili

List of Publications by Year
in descending order

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90	404	840776 11	888059 17
papers	citations	h-index	g-index

91	91	91	72
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complete renormalization group improvement â€" avoiding factorization and renormalization scale dependence in QCD predictions. Nuclear Physics B, 2000, 577, 209-220.	2.5	44
2	Analytic derivation of the next-to-leading order proton structure function <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msubsup><mml:mi>F</mml:mi><mml:mn>2</mml:mn><mm based on the Laplace transformation. Physical Review C, 2017, 95, .	2.9	42
3	Next-to-Leading order approximation of polarized valon and parton distributions. Journal of High Energy Physics, 2004, 2004, 062-062.	4.7	24
4	NLO analytical solutions to the polarized parton distributions, based on the Laplace transformation. Physical Review D, 2013, 87, .	4.7	21
5	Renormalon-inspired resummations for vector and scalar correlators â€" estimating the uncertainty in Î±s(M2Ï„) and Î±(M2Z). Nuclear Physics B, 2001, 611, 423-446.	2.5	20
6	THE ROLE OF POLARIZED VALONS IN THE FLAVOR SYMMETRY BREAKING OF NUCLEON SEA. International Journal of Modern Physics A, 2006, 21, 4599-4615.	1.5	17
7	Direct extraction of QCD from moments of structure functions in neutrinoâ€"nucleon scattering, using the CORGI approach. Nuclear Physics B, 2002, 645, 298-308.	2.5	15
8	LowQ²proton structure function, using gluon and pseudoscalar meson clouds in the constituent quark framework. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 105003.	3.6	12
9	THE NLO QCD CALCULATION OF SEA QUARK DISTRIBUTIONS IN THE CORGI APPROACH, BASED ON THE CONSTITUENT QUARK MODEL. International Journal of Modern Physics A, 2007, 22, 4519-4535.	1.5	11
10	MESON CLOUDS AND DRESSED CONSTITUENT QUARKS IN THE COMPLETE RG-IMPROVEMENT APPROACH. International Journal of Modern Physics A, 2008, 23, 5037-5058.	1.5	11
11	Parton densities in the modified chiral quark model. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 045009.	3.6	11
12	A new approach to calculate the gluon polarization. European Physical Journal C, 2011, 71, 1.	3.9	10
13	QCD analysis of flavor-asymmetry for polarized sea quark distributions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 38-41.	0.4	9
14	3He and 3H polarized structure functions, using the constituent quark model. Nuclear Physics A, 2009, 831, 243-262.	1.5	9
15	QCD Predictions for Spin Dependence of Parton Distributions. Communications in Theoretical Physics, 2005, 43, 1087-1098.	2.5	8
16	Noncommutative correction to the Cornell potential in heavy-quarkonium atoms. Theoretical and Mathematical Physics(Russian Federation), 2016, 186, 280-285.	0.9	7
17	EMC effect in the next-to-leading order approximation based on the Laplace transformation. Physical Review C, 2018, 98, .	2.9	7
18	QUARK DISTRIBUTIONS AND NUCLEON SPIN STRUCTURE. International Journal of Modern Physics A, 2005, 20, 1923-1926.	1.5	6

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19	NUCLEAR PARTON DENSITIES AND STRUCTURE FUNCTIONS. International Journal of Modern Physics A, 2005, 20, 1927-1930.	1.5	6
20	Q²-DEPENDENCE OF THE STATISTICAL PARTON DISTRIBUTIONS IN THE VALON APPROACH. International Journal of Modern Physics A, 2012, 27, 1250083.	1.5	6
21	Nonsinglet polarized nucleon structure function in infrared-safe QCD. Physical Review D, 2019, 100, .	4.7	6
22	Comparing optimized renormalization schemes for QCD observables. Physical Review D, 2020, 101, .	4.7	6
23	EMC effect and nuclear structure functions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 30-33.	0.4	5
24	The Role of Logarithmic Expansions for Nonsinglet QCD Analysis of. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 27-30.	0.4	4
25	Non-singlet structure function in the NNLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 34-37.	0.4	4
26	R_{Ï„}AND HIGGS DECAY WIDTH IN CORGI APPROACH, BASED ON THE LEADING-b APPROXIMATION. International Journal of Modern Physics A, 2011, 26, 2047-2064.	1.5	4
27	PARTON DENSITIES WITH THE QUARK LINEAR POTENTIAL IN THE STATISTICAL APPROACH. International Journal of Modern Physics A, 2013, 28, 1350089.	1.5	4
28	Analyzing the parton densities and constructing the xF3 structure function, using the Laguerre polynomials expansion and Monte Carlo calculations. European Physical Journal Plus, 2015, 130, 1.	2.6	4
29	Nucleon structure functions in noncommutative space-time. European Physical Journal C, 2017, 77, 1.	3.9	4
30	Polarized parton distribution functions: parametrization and transverse momentum dependence. European Physical Journal C, 2021, 81, 1.	3.9	4
31	Polarized constituent quarks in NLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 83-86.	0.4	3
32	Unpolarized transverse momentum-dependent densities based on the modified chiral quark model. European Physical Journal Plus, 2014, 129, 1.	2.6	3
33	Extracting the QCD Î›MSÂ¯ parameter in Drellâ€“Yan process using Collinsâ€“Soperâ€“Sterman approach. Modern Physics Letters A, 2017, 32, 1750040.	1.2	3
34	QCD analysis of non-singlet structure functions at NNLO accuracy, based on the Laplace transform. European Physical Journal Plus, 2020, 135, 1.	2.6	3
35	Electromagnetic form factors in noncommutative space time. European Physical Journal C, 2022, 82, 1.	3.9	3
36	Longitudinal heavy quark structure function. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 379-382.	0.4	2

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37	Pion mass dependence of the K l3 semileptonic scalar form factor within finite volume. European Physical Journal C, 2011, 71, 1.	3.9	2
38	(ANTI-)STRANGE DENSITY AND CONTRIBUTION OF HEAVY FLAVOR, F_2^c, TO THE NUCLEON STRUCTURE FUNCTION IN THE CHIRAL QUARK MODEL. International Journal of Modern Physics A, 2012, 27, 1250120.	1.5	2
39	Sea quark densities in the effective chiral quark model with generalized harmonic oscillator potential. European Physical Journal C, 2012, 72, 1.	3.9	2
40	Mass and energy dependence of the transverse momentum densities in covariant parton model. Modern Physics Letters A, 2015, 30, 1550133.	1.2	2
41	Numerical solution of DGLAP equations using Laguerre polynomials expansion and Monte Carlo method. SpringerPlus, 2016, 5, 1672.	1.2	2
42	Measurement of strong coupling Î±s in e + e â^' annihilation using jet rate and event shape. Indian Journal of Physics, 2016, 90, 469-476.	1.8	2
43	Principle of maximum conformality and complete renormalization group improvement approaches to optimize QCD observables: Similarity, differences, and preference. Physical Review D, 2019, 99, .	4.7	2
44	The impact of QED corrections on heavy quarks structure functions at LHC energies, within the xFitter framework. Nuclear Physics A, 2020, 993, 121643.	1.5	2
45	Parton and Valon Distributions in the Nuclei. International Journal of Theoretical Physics, 2020, 59, 1553-1571.	1.2	2
46	Nucleon spin structure functions, considering target mass correction, and higher twist effects at the NNLO accuracy and their transverse momentum dependence. Physical Review D, 2022, 105, .	4.7	2
47	QCD analysis of polarized structure functions in next-to-leading-order, using improved valon model. AIP Conference Proceedings, 2004, , .	0.4	1
48	Renormalization group improvement and constituent quark model. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 137-140.	0.4	1
49	Nucleon/nuclei polarized structure function, using Jacobi polynomials expansion. Chinese Physics C, 2010, 34, 1534-1537.	3.7	1
50	Scheme-scale ambiguity in analysis of QCD observable. Chinese Physics C, 2010, 34, 1523-1526.	3.7	1
51	FLAVOR AND SPIN DEPENDENT STRUCTURE OF THE NUCLEON AND MESON. International Journal of Modern Physics A, 2012, 27, 1250003.	1.5	1
52	NNLO LONGITUDINAL PROTON STRUCTURE FUNCTION, BASED ON THE MODIFIED Ï‡QM. Modern Physics Letters A, 2012, 27, 1250179.	1.2	1
53	Higher-order prediction terms and fixing the renormalization scale using the BLM approach. International Journal of Modern Physics A, 2014, 29, 1450178.	1.5	1
54	Extracting the QCD Cutoff Parameter Using the Bernstein Polynomials and the Truncated Moments. Advances in High Energy Physics, 2014, 2014, 1-7.	1.1	1

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55	The Information Loss for QCD Matter Due to Interaction Potential Between Branes Near Higher Dimensional Ads Black Holes at LHC. International Journal of Theoretical Physics, 2015, 54, 3374-3386.	1.2	1
56	Deviation pattern approach for optimizing perturbative terms of QCD renormalization group invariant observables. EPJ Web of Conferences, 2017, 138, 02004.	0.3	1
57	The longitudinal structure function in the presence of QED effects. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136534.	4.1	1
58	Analytical perturbation theory and nucleon structure function in infrared region. Physical Review D, 2021, 104, .	4.7	1
59	Impact of EMC effect on D meson modification factor in equilibrating QGP. European Physical Journal Plus, 2022, 137, .	2.6	1
60	Renormalization and factorization scales and scheme dependence for some QCD observables. AIP Conference Proceedings, 2004, , .	0.4	0
61	Renormalization group analysis in cross section of b-quark production. AIP Conference Proceedings, 2005, , .	0.4	0
62	DETERMINATION OF QCD RUNNING COUPLING CONSTANT IN NNLO APPROXIMATION, USING COMPLETE RG IMPROVEMENT. International Journal of Modern Physics A, 2005, 20, 1955-1958.	1.5	0
63	Analysis of production in proton-antiproton collisions, using the approach of complete RG-improvement. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 136-139.	0.4	0
64	QCD analysis of heavy quarks production in hadronic collisions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 167, 82-85.	0.4	0
65	Higher order predicted terms for an QCD observable, using PMS procedure. Journal of Physics: Conference Series, 2008, 110, 022031.	0.4	0
66	Gluon parton density in the chiral quark model. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 61-64.	0.4	0
67	Target mass correction on the 3He polarized structure function. European Physical Journal A, 2011, 47, 1.	2.5	0
68	Instanton effects on extracting the nucleon parton distributions. Nuclear Physics, Section B, Proceedings Supplements, 2011, 219-220, 174-177.	0.4	0
69	Laguerre method to solve parton evolution equations. , 2011, , .		0
70	Effects of QCD Vacuum and the Instanton Induced-Contributions to the Nucleon Structure Functions. Communications in Theoretical Physics, 2013, 59, 179-186.	2.5	0
71	Meson polarized distribution function and mass dependence of the nucleon parton densities. Chinese Physics C, 2014, 38, 083101.	3.7	0
72	Asymmetric sea quark and gluon densities, based on the polarized chiral quark model. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 105001.	3.6	0

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73	ical method to extract <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"	0.5	0
74	QCD test with the momentum spectra and the second binomial moment R₂ using e⁺e^{â^’} data. Canadian Journal of Physics, 2016, 94, 821-825.	1.1	0
75	Momentum distribution of charged particles in jets in dijet events and comparison to perturbative QCD predictions. Pramana - Journal of Physics, 2016, 87, 1.	1.8	0
76	Investigating GPDs in the framework of the double distribution model. International Journal of Modern Physics A, 2016, 31, 1650091.	1.5	0
77	The influence of fragmentation models in the production of hadron jets in electronâ€“positron annihilation. Pramana - Journal of Physics, 2016, 86, 555-563.	1.8	0
78	Sivers effect and the spin asymmetry in meson production. Nuclear and Particle Physics Proceedings, 2017, 282-284, 48-52.	0.5	0
79	Sivers effect in single spin asymmetry based on the covariant parton model. International Journal of Modern Physics A, 2017, 32, 1750176.	1.5	0
80	The Riemann tensor and the Bianchi identity in 5D spaceâ€“time. Comptes Rendus Physique, 2017, 18, 66-71.	0.9	0
81	Renormalization scale setting for some QCD observable, based on the PMC and CORGI approaches. Nuclear and Particle Physics Proceedings, 2018, 300-302, 93-98.	0.5	0
82	Quark density operators within the MOM scheme in the light-front formulation. Nuclear and Particle Physics Proceedings, 2018, 294-296, 28-31.	0.5	0
83	Mass corrections to the DGLAP equations. Physical Review D, 2021, 103, .	4.7	0
84	Heavy-ion fusion cross sections in the barrier and high-energy regions: Signature of energy dependence in the repulsive core potential. Nuclear Physics A, 2021, 1015, 122303.	1.5	0
85	INVESTIGATING THE QCD SCALE DEPENDENCE OF TOTAL CROSS SECTION FOR HEAVY QUARK PRODUCTION IN $ par p $ COLLISIONS. , 2005, , .		0
86	THE ROLE OF HIGHER ORDER CORRECTIONS IN DETERMINING POLARIZED PARTON DENSITIES IN THE NUCLEON. , 2005, , .		0
87	QUARK-GLUON HELICITY AND $mathcal {Q}$² DEPENDENCE OF PARTONIC ANGULAR MOMENTUM. , 2005, , .		0
88	POLARIZED PARTON DISTRIBUTIONS IN THE APPROACH OF COMPLETE RENORMALIZATION GROUP IMPROVEMENT. , 2005, , .		0
89	Evolution of TMD parton distributions up to NNLO approximation.. , 2016, , .		0
90	Unpolarized TMD Quark Distribution Functions at Low Q^2 Scales. , 2016, , .		0