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	Electromagnetic form factors in noncommutative space time. European Physical Journal C, 2022, 82, 1.	3.9	3
2	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
3	Impact of EMC effect on D meson modification factor in equilibrating QGP. European Physical Journal Plus, 2022, 137, .	2.6	1
4	Polarized parton distribution functions: parametrization and transverse momentum dependence. European Physical Journal C, 2021, 81, 1.	3.9	4
5	Mass corrections to the DGLAP equations. Physical Review D, 2021, 103, .	4.7	0
6	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
7	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
8	Analytical perturbation theory and nucleon structure function in infrared region. Physical Review D, 2021, 104, .	4.7	1
9	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
10	Comparing optimized renormalization schemes for QCD observables. Physical Review D, 2020, 101, .	4.7	6
11	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
12	Parton and Valon Distributions in the Nuclei. International Journal of Theoretical Physics, 2020, 59, 1553-1571.	1.2	2
13	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
14	Nonsinglet polarized nucleon structure function in infrared-safe QCD. Physical Review D, 2019, 100, .	4.7	6
15	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
16	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
17	EMC effect in the next-to-leading order approximation based on the Laplace transformation. Physical Review C, 2018, 98, .	2.9	7
18	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><mml:mn><mm based on the Laplace transformation. Physical Review C, 2017, 95, .	2.9	12

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19	Sivers effect and the spin asymmetry in meson production. Nuclear and Particle Physics Proceedings, 2017, 282-284, 48-52.	0.5	0
20	Sivers effect in single spin asymmetry based on the covariant parton model. International Journal of Modern Physics A, 2017, 32, 1750176.	1.5	0
21	Nucleon structure functions in noncommutative space-time. European Physical Journal C, 2017, 77, 1.	3.9	4
22	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
23	The Riemann tensor and the Bianchi identity in 5D spaceâ€“time. Comptes Rendus Physique, 2017, 18, 66-71.	0.9	0
24	Deviation pattern approach for optimizing perturbative terms of QCD renormalization group invariant observables. EPJ Web of Conferences, 2017, 138, 02004.	0.3	1
25	Numerical solution of DGLAP equations using Laguerre polynomials expansion and Monte Carlo method. SpringerPlus, 2016, 5, 1672.	1.2	2
26	Noncommutative correction to the Cornell potential in heavy-quarkonium atoms. Theoretical and Mathematical Physics(Russian Federation), 2016, 186, 280-285.	0.9	7
27	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
28	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
29	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
30	Investigating GPDs in the framework of the double distribution model. International Journal of Modern Physics A, 2016, 31, 1650091.	1.5	0
31	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
32	Evolution of TMD parton distributions up to NNLO approximation.. , 2016, , .		0
33	Unpolarized TMD Quark Distribution Functions at Low Q^2 Scales. , 2016, , .		0
34	Mass and energy dependence of the transverse momentum densities in covariant parton model. Modern Physics Letters A, 2015, 30, 1550133.	1.2	2
35	A numerical 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
36	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

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37	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
38	Meson polarized distribution function and mass dependence of the nucleon parton densities. Chinese Physics C, 2014, 38, 083101.	3.7	0
39	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
40	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
41	Unpolarized transverse momentum-dependent densities based on the modified chiral quark model. European Physical Journal Plus, 2014, 129, 1.	2.6	3
42	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
43	NLO analytical solutions to the polarized parton distributions, based on the Laplace transformation. Physical Review D, 2013, 87, .	4.7	21
44	PARTON DENSITIES WITH THE QUARK LINEAR POTENTIAL IN THE STATISTICAL APPROACH. International Journal of Modern Physics A, 2013, 28, 1350089.	1.5	4
45	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
46	FLAVOR AND SPIN DEPENDENT STRUCTURE OF THE NUCLEON AND MESON. International Journal of Modern Physics A, 2012, 27, 1250003.	1.5	1
47	(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
48	NNLO LONGITUDINAL PROTON STRUCTURE FUNCTION, BASED ON THE MODIFIED Ï‡QM. Modern Physics Letters A, 2012, 27, 1250179.	1.2	1
49	Q²-DEPENDENCE OF THE STATISTICAL PARTON DISTRIBUTIONS IN THE VALON APPROACH. International Journal of Modern Physics A, 2012, 27, 1250083.	1.5	6
50	Parton densities in the modified chiral quark model. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 045009.	3.6	11
51	Sea quark densities in the effective chiral quark model with generalized harmonic oscillator potential. European Physical Journal C, 2012, 72, 1.	3.9	2
52	Target mass correction on the 3He polarized structure function. European Physical Journal A, 2011, 47, 1.	2.5	0
53	Instanton effects on extracting the nucleon parton distributions. Nuclear Physics, Section B, Proceedings Supplements, 2011, 219-220, 174-177.	0.4	0
54	A new approach to calculate the gluon polarization. European Physical Journal C, 2011, 71, 1.	3.9	10

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55	Pion mass dependence of the K l3 semileptonic scalar form factor within finite volume. European Physical Journal C, 2011, 71, 1.	3.9	2
56	Laguerre method to solve parton evolution equations. , 2011, , .		0
57	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
58	Gluon parton density in the chiral quark model. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 61-64.	0.4	0
59	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
60	Nucleon/nuclei polarized structure function, using Jacobi polynomials expansion. Chinese Physics C, 2010, 34, 1534-1537.	3.7	1
61	Scheme-scale ambiguity in analysis of QCD observable. Chinese Physics C, 2010, 34, 1523-1526.	3.7	1
62	3He and 3H polarized structure functions, using the constituent quark model. Nuclear Physics A, 2009, 831, 243-262.	1.5	9
63	Longitudinal heavy quark structure function. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 379-382.	0.4	2
64	Renormalization group improvement and constituent quark model. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 137-140.	0.4	1
65	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
66	Higher order predicted terms for an QCD observable, using PMS procedure. Journal of Physics: Conference Series, 2008, 110, 022031.	0.4	0
67	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
68	EMC effect and nuclear structure functions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 30-33.	0.4	5
69	QCD analysis of heavy quarks production in hadronic collisions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 167, 82-85.	0.4	0
70	The Role of Logarithmic Expansions for Nonsinglet QCD Analysis of. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 27-30.	0.4	4
71	QCD analysis of flavor-asymmetry for polarized sea quark distributions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 38-41.	0.4	9
72	Non-singlet structure function in the NNLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 34-37.	0.4	4

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73	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
74	Polarized constituent quarks in NLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 83-86.	0.4	3
75	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
76	Renormalization group analysis in cross section of b-quark production. AIP Conference Proceedings, 2005, , .	0.4	0
77	QCD Predictions for Spin Dependence of Parton Distributions. Communications in Theoretical Physics, 2005, 43, 1087-1098.	2.5	8
78	QUARK DISTRIBUTIONS AND NUCLEON SPIN STRUCTURE. International Journal of Modern Physics A, 2005, 20, 1923-1926.	1.5	6
79	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
80	NUCLEAR PARTON DENSITIES AND STRUCTURE FUNCTIONS. International Journal of Modern Physics A, 2005, 20, 1927-1930.	1.5	6
81	INVESTIGATING THE QCD SCALE DEPENDENCE OF TOTAL CROSS SECTION FOR HEAVY QUARK PRODUCTION IN $ par p $ COLLISIONS. , 2005, , .		0
82	THE ROLE OF HIGHER ORDER CORRECTIONS IN DETERMINING POLARIZED PARTON DENSITIES IN THE NUCLEON. , 2005, , .		0
83	QUARK-GLUON HELICITY AND $mathcal {Q}$² DEPENDENCE OF PARTONIC ANGULAR MOMENTUM. , 2005, , .		0
84	POLARIZED PARTON DISTRIBUTIONS IN THE APPROACH OF COMPLETE RENORMALIZATION GROUP IMPROVEMENT. , 2005, , .		0
85	Next-to-Leading order approximation of polarized valon and parton distributions. Journal of High Energy Physics, 2004, 2004, 062-062.	4.7	24
86	Renormalization and factorization scales and scheme dependence for some QCD observables. AIP Conference Proceedings, 2004, , .	0.4	0
87	QCD analysis of polarized structure functions in next-to-leading-order, using improved valon model. AIP Conference Proceedings, 2004, , .	0.4	1
88	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
89	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
90	Complete renormalization group improvement â€” avoiding factorization and renormalization scale dependence in QCD predictions. Nuclear Physics B, 2000, 577, 209-220.	2.5	44