

# Shahin Atashbar Tehrani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6835653/publications.pdf>

Version: 2024-02-01

86  
papers

752  
citations

471371

17  
h-index

580701

25  
g-index

87  
all docs

87  
docs citations

87  
times ranked

568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global analysis of nuclear parton distribution functions and their uncertainties at next-to-next-to-leading order. Physical Review D, 2016, 93, .	1.6	83
2	Analytic derivation of the next-to-leading order proton structure function $F_2(x, Q^2)$ based on the Laplace transformation. Physical Review C, 2017, 95, .	1.6	42
3	The Jacobi polynomials QCD analysis for the polarized structure function. Journal of High Energy Physics, 2007, 2007, 048-048.	1.6	35
4	Next-to-next-to-leading order QCD analysis of spin-dependent parton distribution functions and their uncertainties: Jacobi polynomials approach. Physical Review D, 2016, 93, .	1.6	35
5	Nucleon spin structure functions at NNLO in the presence of target mass corrections and higher twist effects. Physical Review D, 2017, 95, .	1.6	33
6	Polarized deeply inelastic scattering (DIS) structure functions for nucleons and nuclei. Physical Review D, 2011, 83, .	1.6	31
7	Nonsinglet parton distribution functions from the precise next-to-next-to-next-to leading order QCD fit. Physical Review D, 2010, 81, .	1.6	30
8	Next-to-next-to-leading order QCD contributions to the flavor nonsinglet sector of $F_2(x, Q^2)$ . Physical Review D, 2008, 78, .	1.6	29
9	QCD analysis of nucleon structure functions in deep-inelastic neutrino-nucleon scattering: Laplace transform and Jacobi polynomials approach. Physical Review C, 2016, 94, .	1.1	28
10	Next-to-Leading order approximation of polarized valon and parton distributions. Journal of High Energy Physics, 2004, 2004, 062-062.	1.6	24
11	Analytical approaches to the determination of spin-dependent parton distribution functions at NNLO approximation. Physical Review C, 2018, 97, .	1.1	24
12	NLO analytical solutions to the polarized parton distributions, based on the Laplace transformation. Physical Review D, 2013, 87, .	1.6	21
13	Nuclear parton densities and their uncertainties at the next-to-leading order. Physical Review C, 2012, 86, .	1.1	19
14	New parton distributions in a fixed flavour factorization scheme from recent deep-inelastic-scattering data. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 045002.	1.4	19
15	Study of spin-dependent structure functions of He3 and H3 at NNLO approximation and corresponding nuclear corrections. Physical Review D, 2017, 96, .	1.6	19
16	THE ROLE OF POLARIZED VALONS IN THE FLAVOR SYMMETRY BREAKING OF NUCLEON SEA. International Journal of Modern Physics A, 2006, 21, 4599-4615.	0.5	17
17	Nuclear parton distribution functions with uncertainties in a general mass variable flavor number scheme. Physical Review D, 2021, 104, .	1.6	17
18	NNLO charmed-meson fragmentation functions and their uncertainties in the presence of meson mass corrections. European Physical Journal C, 2019, 79, 1.	1.4	16

#	ARTICLE	IF	CITATIONS
19	Fragmentation functions of the pion, kaon, and proton in the NLO approximation: Laplace transform approach. <i>Physical Review D</i> , 2015, 92, .	1.6	14
20	The NNLO non-singlet QCD analysis of parton distributions based on Bernstein polynomials. <i>Journal of High Energy Physics</i> , 2007, 2007, 051-051.	1.6	12
21	Non-singlet sector of proton and deuteron structure functions. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	10
22	The Jacobi polynomials QCD analysis for proton spin structure. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	9
23	QCD analysis of flavor-asymmetry for polarized sea quark distributions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 164, 38-41.	0.5	9
24	F L structure function and heavy quark contributions. <i>Hyperfine Interactions</i> , 2009, 194, 341-345.	0.2	9
25	$^3\text{He}$ and $^3\text{H}$ polarized structure functions, using the constituent quark model. <i>Nuclear Physics A</i> , 2009, 831, 243-262.	0.6	9
26	QCD Predictions for Spin Dependence of Parton Distributions. <i>Communications in Theoretical Physics</i> , 2005, 43, 1087-1098.	1.1	8
27	3-Loops QCD analysis for non-singlet sector of. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 186, 58-61.	0.5	8
28	A global analysis of diffractive events at HERA. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2012, 39, 085009.	1.4	8
29	Hybrid star within the framework of a lowest-order constraint variational method. <i>Physical Review D</i> , 2020, 101, .	1.6	8
30	Structure and tidal deformability of a hybrid star within the framework of the field correlator method. <i>Physical Review D</i> , 2020, 101, .	1.6	8
31	Non-singlet QCD analysis in the NNLO approximation. <i>Journal of Physics: Conference Series</i> , 2008, 110, 022022.	0.3	7
32	EMC effect in the next-to-leading order approximation based on the Laplace transformation. <i>Physical Review C</i> , 2018, 98, .	1.1	7
33	QUARK DISTRIBUTIONS AND NUCLEON SPIN STRUCTURE. <i>International Journal of Modern Physics A</i> , 2005, 20, 1923-1926.	0.5	6
34	NUCLEAR PARTON DENSITIES AND STRUCTURE FUNCTIONS. <i>International Journal of Modern Physics A</i> , 2005, 20, 1927-1930.	0.5	6
35	Nonsinglet polarized nucleon structure function in infrared-safe QCD. <i>Physical Review D</i> , 2019, 100, .	1.6	6
36	EMC effect and nuclear structure functions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 164, 30-33.	0.5	5

#	ARTICLE	IF	CITATIONS
37	Nonsinglet spin-dependent structure functions. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 65-68.	0.5	5
38	SPIN-DEPENDENT STRUCTURE FUNCTION OF $^3\text{He}$ and $^3\text{H}$ . International Journal of Modern Physics A, 2011, 26, 625-626.	0.5	5
39	The Role of Logarithmic Expansions for Nonsinglet QCD Analysis of. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 27-30.	0.5	4
40	Non-singlet structure function in the NNLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 34-37.	0.5	4
41	Parton Distribution Functions from QCD Analysis of HERA Combined Inclusive $e^{\pm} p$ Scattering Cross Section Data. Few-Body Systems, 2012, 52, 279-284.	0.7	4
42	Polarized parton distribution functions: parametrization and transverse momentum dependence. European Physical Journal C, 2021, 81, 1.	1.4	4
43	Polarized constituent quarks in NLO approximation. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 83-86.	0.5	3
44	Parton distribution functions up to NNLO. Hyperfine Interactions, 2009, 194, 331-335.	0.2	3
45	$xF_3$ structure function based on the associated Jacobi polynomials. Hyperfine Interactions, 2009, 194, 337-340.	0.2	3
46	DETERMINATION OF THE STRONG COUPLING CONSTANT FROM NLO QCD ANALYSIS OF PROTON STRUCTURE FUNCTION. International Journal of Modern Physics A, 2011, 26, 658-659.	0.5	3
47	Spin dependence of structure functions and target mass corrections. Nuclear Physics, Section B, Proceedings Supplements, 2011, 210-211, 125-128.	0.5	3
48	Fragmentation functions of neutral mesons $\pi^0$ and $K^0$ with Laplace transform approach. International Journal of Modern Physics A, 2016, 31, 1650100.	0.5	3
49	QCD analysis of non-singlet structure functions at NNLO accuracy, based on the Laplace transform. European Physical Journal Plus, 2020, 135, 1.	1.2	3
50	Strong coupling constant and flavor thresholds in QCD. AIP Conference Proceedings, 2008, , .	0.3	2
51	Longitudinal heavy quark structure function. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 379-382.	0.5	2
52	Determination of the strong coupling constant using available experimental data. Chinese Physics C, 2010, 34, 1485-1487.	1.5	2
53	Polarized structure functions in nuclear matter. , 2011, , .		2
54	Next-to-Next-to-Leading Order Calculation of Valence Quark Polarization in the Valon Model. International Journal of Theoretical Physics, 2019, 58, 157-166.	0.5	2

#	ARTICLE	IF	CITATIONS
55	Parton and Valon Distributions in the Nuclei. International Journal of Theoretical Physics, 2020, 59, 1553-1571.	0.5	2
56	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, .	1.6	2
57	QCD analysis of polarized structure functions in next-to-leading-order, using improved valon model. AIP Conference Proceedings, 2004, , .	0.3	1
58	Renormalization group improvement and constituent quark model. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 137-140.	0.5	1
59	A PHENOMENOLOGICAL ANALYSIS OF THE LONGITUDINAL PROTON STRUCTURE FUNCTION FL. , 2010, , .		1
60	Nucleon/nuclei polarized structure function, using Jacobi polynomials expansion. Chinese Physics C, 2010, 34, 1534-1537.	1.5	1
61	Symmetry breaking effect on determination of polarized and unpolarized parton distributions. Nuclear Physics, Section B, Proceedings Supplements, 2013, 234, 66-69.	0.5	1
62	Analytical perturbation theory and nucleon structure function in infrared region. Physical Review D, 2021, 104, .	1.6	1
63	Impact of EMC effect on D meson modification factor in equilibrating QGP. European Physical Journal Plus, 2022, 137, .	1.2	1
64	Renormalization and factorization scales and scheme dependence for some QCD observables. AIP Conference Proceedings, 2004, , .	0.3	0
65	Renormalization group analysis in cross section of b-quark production. AIP Conference Proceedings, 2005, , .	0.3	0
66	DETERMINATION OF QCD RUNNING COUPLING CONSTANT IN NNLO APPROXIMATION, USING COMPLETE RG IMPROVEMENT. International Journal of Modern Physics A, 2005, 20, 1955-1958.	0.5	0
67	Analysis of production in proton-antiproton collisions, using the approach of complete RG-improvement. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 136-139.	0.5	0
68	The flavor symmetry breaking of nucleon sea in the valon model. AIP Conference Proceedings, 2007, , .	0.3	0
69	QCD analysis of heavy quarks production in hadronic collisions. Nuclear Physics, Section B, Proceedings Supplements, 2007, 167, 82-85.	0.5	0
70	Polarized nucleon structure function up to NLO. AIP Conference Proceedings, 2008, , .	0.3	0
71	Jacobi polynomials and non-singlet structure function $F_2(x, Q^2)$ up to N <sup>3</sup> LO. Chinese Physics C, 2010, 34, 1479-1481.	1.5	0
72	The study of heavy contribution in diffractive parton distribution functions. Journal of Physics: Conference Series, 2012, 347, 012018.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Sivers effect and the spin asymmetry in meson production. Nuclear and Particle Physics Proceedings, 2017, 282-284, 48-52.	0.2	0
74	Sivers effect in single spin asymmetry based on the covariant parton model. International Journal of Modern Physics A, 2017, 32, 1750176.	0.5	0
75	Improved Determination of Strange Distribution Function from the Global Analysis Using BHPS Model. Few-Body Systems, 2021, 62, 1.	0.7	0
76	INVESTIGATING THE QCD SCALE DEPENDENCE OF TOTAL CROSS SECTION FOR HEAVY QUARK PRODUCTION IN $p\bar{p}$ COLLISIONS. , 2005, , .		0
77	THE ROLE OF HIGHER ORDER CORRECTIONS IN DETERMINING POLARIZED PARTON DENSITIES IN THE NUCLEON. , 2005, , .		0
78	F L structure function and heavy quark contributions. , 2009, , 689-693.		0
79	Parton distribution functions up to NNLO. , 2009, , 679-683.		0
80	$x_F^3$ structure function based on the associated Jacobi polynomials. , 2009, , 685-688.		0
81	PARTON DISTRIBUTION FUNCTIONS IN DIFFRACTIVE DEEP INELASTIC SCATTERING. , 2010, , .		0
82	HEAVY QUARK CONTRIBUTIONS TO THE PROTON STRUCTURE FUNCTION. , 2010, , .		0
83	NUCLEON POLARIZED STRUCTURE FUNCTION. , 2010, , .		0
84	PADÉ APPROXIMATIONS AND NSQD'S UP TO 4-LOOP USING F2 DEEP INELASTIC WORLD DATA. , 2010, , .		0
85	Nuclear Parton Distribution Functions (nPDFs) and Their Uncertainties in the LHC Era. KnE Energy, 2018, 3, 297.	0.3	0
86	...		