Majid Modarres

List of Publications by Year
in descending order

59 papers	617 citations	567281 15 h-index	713466 21 g-index
59 all docs	59 docs citations	59 times ranked	40 citing authors

#	Article	IF	Citations
1	On the ambiguity between differential and integral forms of the Martinâ€“Ryskinâ€“Watt unintegrated parton distribution function model. European Physical Journal C, 2022, 82, 1.	3.9	4
2	On validity of different PDFs sets using the proton $$k_t$$-factorization structure functions and the Gaussian $$k_t$$-dependence of KMR UPDFs. European Physical Journal C, 2022, 82, .	3.9	1
3	display="inline"><mml:mi>p</mml:mi><mml:mo>â^’</mml:mo><mml:mi>p</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mover accent="true"><mml:mi>p</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf section of isolated single photon production in the <mml:math	4.7	2
4	Inclusive jet and dijet productions using$k$ _t and (z, k _t)-factorizations versus ZEUS collaboration data. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 085009.	3.6	4
5	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo>â^’</mml:mo><mml:mi>p</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mover accent="true"><mml:mi>p</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	4.7	4
6	Validity check of the KATIE parton level event generator in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>k</mml:mi><mml:mi>t</mml:mi></mml:msub></mml:math> -factorization and collinear frameworks. Physical Review D, 2021, 104, .	4.7	2
7	Three-photon productions within the $$k_t$$-factorization at the LHC. European Physical Journal C, 2021, 81, .	3.9	5
8	Applying different angular ordering constraints and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>k</mml:mi><mml:mi>t</mml:mi></mml:msub></mml:math> -factorization approaches to the single inclusive hadron production in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	4.7	2
9	display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo> Extracting the parton distribution functions evolution equations using the stochastic modeling in the non-equilibrium statistical mechanics. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124585.	2.6	1
10	Application of the constituent quark exchange model to the parton distributions and the EMC ratios of 12C and 14N nuclei. Nuclear Physics A, 2020, 1000, 121845.	1.5	1
11	A detailed study of charm content of a proton in the frameworks of the Kimber-Martin-Ryskin and Martin-Ryskin-Watt approaches. Nuclear Physics A, 2020, 998, 121735.	1.5	1
12	A phenomenological investigation of the integral and the differential versions of the $${extit{Kimber}}$$â€“$${extit{Martin}}$$â€“$${extit{Ryskin}}$$ $${extit{unintegrated}}$$ parton distribution functions using two different constraints and the $${extit{MMHT}}2014$$ $${extit{PDF}}$$. European Physical Journal C, 2019, 79, 1.	3.9	6
13	A detailed study of the LHC and TEVATRON hadronâ€“hadron prompt-photon pair production experiments in the angular ordering constraint k _t-factorization approaches. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 105005.	3.6	12
14	The EMC ratios of 4He, 3He and 3H nuclei in the k factorization framework using the Kimberâ€“Martinâ€“Ryskin unintegrated parton distribution functions. Nuclear Physics A, 2019, 983, 118-132.	1.5	7
15	Semi-NLO production of Higgs bosons in the framework of k-factorization using KMR unintegrated parton distributions. Nuclear Physics B, 2018, 926, 406-426.	2.5	12
16	The role of constituent quark exchange on the NLO structure function and the EMC ratios of the 4He nucleus. European Physical Journal A, 2018, 54, 1.	2.5	4
17	Application of the Kimber-Martin-Ryskin and Martin-Ryskin-Watt unintegrated parton distributions to the EMC ratio of a Li6 nucleus in the kt -factorization framework. Physical Review D, 2018, 98, .	4.7	11
18	Study of inclusive single-jet production in the framework of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>k</mml:mi><mml:mi>t</mml:mi></mml:msub></mml:math> -factorization unintegrated parton distributions. Physical Review D, 2018, 97, .	4.7	8

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19	LHC production of forward-center and forward-forward di-jets in the k-factorization and transverse dependent unintegrated parton distribution frameworks. Nuclear Physics B, 2017, 922, 94-112.	2.5	16
20	KMR k t -factorization procedure for the description of the LHCb forward hadronâ€“hadron Z 0 production at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>13</mml:mn><mml:mspace width="0.25em" /><mml:mtext>TeV</mml:mtext></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 534-541.	4.1	15
21	Transverse momentum dependent (TMD) parton distribution functions generated in the modified DGLAP formalism based on the valence-like distributions. International Journal of Modern Physics A, 2017, 32, 1750121.	1.5	7
22	NLO production of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>W</mml:mi></mml:mrow><mml:mrow><mml:mo>Â±</mml:mo></m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Z</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> vector bosons via hadron collisions in the frameworks of Kimber-Martin-Ryskin and Martin-Ryskin-Watt unintegrated parton distribution fun. Physical Review D, 2016, 94, .	4.7	16
23	The proton F L dipole approximation in the KMR and the MRW unintegrated parton distribution functions frameworks. Nuclear Physics A, 2016, 945, 168-185.	1.5	17
24	The role of quark exchange in the structure function of Lithium nucleus. International Journal of Modern Physics E, 2015, 24, 1550037.	1.0	9
25	A new phenomenological investigation of KMR and MRW unintegrated parton distribution functions. European Physical Journal C, 2015, 75, 1.	3.9	18
26	Phenomenological study of unintegrated parton distribution functions in the frameworks of the Kimber-Martin-Ryskin and Martin-Ryskin-Watt approaches. Physical Review D, 2014, 89, .	4.7	21
27	The Structure Functions of 3 He and 3 H Nuclei in the Constituent Quark Exchange Model. Few-Body Systems, 2014, 55, 85-100.	1.5	10
28	The effect of Fermi momentum cutoff on the binding energy of closed shell nuclei in the LOCV framework. Physics of Particles and Nuclei Letters, 2014, 11, 245-251.	0.4	2
29	The thermodynamic properties of weakly interacting quark-gluon plasma via the one-gluon exchange interaction. Physics of Particles and Nuclei Letters, 2013, 10, 99-104.	0.4	10
30	THE RESPONSE FUNCTION OF THE 4He, 16O AND 40Ca NUCLEI IN THE HARMONIC OSCILLATOR SHELL MODEL AND THE IMPULSE APPROXIMATIONS. International Journal of Modern Physics E, 2013, 22, 1350011.	1.0	1
31	The NLO unintegrated parton distribution functions (PDF) in the KMR and the MRW frameworks using the MSTW2008 PDF. Nuclear Physics A, 2013, 902, 21-31.	1.5	20
32	THE ROLE OF FERMI MOTION ON THE STRUCTURE FUNCTIONS OF 3He AND 3H NUCLEI IN THE QUARK EXCHANGE FRAMEWORK. International Journal of Modern Physics E, 2013, 22, 1350037.	1.0	7
33	Two-nucleon spectral function of the16O nucleus using the lowest-order constrained variational state-dependent correlation functions of the Reid and Av18interactions. Physical Review C, 2012, 85, .	2.9	9
34	The LO and the NLO unintegrated parton distributions in the modified DGLAP formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 75-86.	4.1	25
35	The Density Dependence of Homogenous Normal Liquid Helium 3 One-Body Momentum Distribution inÂthe LOCV and Ristigâ€“Clark Formalisms. Journal of Low Temperature Physics, 2011, 162, 182-189.	1.4	3
36	The general behavior of NLO unintegrated parton distributions based on the single-scale evolution and the angular ordering constraint. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 355-362.	4.1	28

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37	THE DENSITY-DEPENDENT Av₁₈ EFFECTIVE INTERACTION AND GROUND STATE OF CLOSED SHELL NUCLEI. International Journal of Modern Physics E, 2011, 20, 679-703.	1.0	8
38	THE SHELL MODEL AND THE IMPULSE APPROXIMATIONS APPROACH TO THE RESPONSE FUNCTION OF 4He, 16O AND 40Ca NUCLEI. International Journal of Modern Physics E, 2011, 20, 2209-2216.	1.0	4
39	The New Investigation of Kimberâ€“Martinâ€“Ryskin Unintegrated Partons. Few-Body Systems, 2010, 47, 237-256.	1.5	26
40	The Constituent Quark Exchange Model for the Bound State Nucleons. Few-Body Systems, 2010, 48, 19-29.	1.5	15
41	The Implementation of Impulse Approximation inÂtheÂWave Function and the Response Function ofÂMany-Fermion System. International Journal of Theoretical Physics, 2010, 49, 413-420.	1.2	4
42	The Kimberâ€“Martinâ€“Ryskin unintegrated partons via the MRST and GRV parametrizations. Nuclear Physics A, 2009, 815, 40-52.	1.5	26
43	The normal liquid 3He one-body momentum distribution at zero and finite temperature. European Physical Journal B, 2009, 71, 7-14.	1.5	4
44	STRANGE QUARK MATTER IN THE FRAMEWORK OF ONE GLUON EXCHANGE AND DENSITY AND TEMPERATURE DEPENDENT PARTICLE MASS MODELS. International Journal of Modern Physics E, 2008, 17, 1335-1355.	1.0	13
45	Quark momentum-space charge distribution in deuteron and neutron/proton structure functions ratio. European Physical Journal A, 2007, 32, 327-333.	2.5	10
46	The effect of quark exchange in A = 3 mirror nuclei and neutron/proton structure functions ratio. European Physical Journal A, 2006, 28, 205-211.	2.5	10
47	The Leading-Order Charm Quark Contribution to the Next-to-Leading-Order Proton Structure Function Using ${cal A}=3$ Mirror Nuclei as Input Valence Quarks. Few-Body Systems, 2006, 39, 177-191.	1.5	10
48	The NLO Parton Distribution in the (x, Q2)-Plane: A Relativistic Quark-Exchange Approach to A = 3 Mirror Nuclei. Few-Body Systems, 2005, 37, 33-48.	1.5	17
49	Effect of Spin-dependent Correlation Functions on the Ground State Energy of Liquid 3He. Journal of Low Temperature Physics, 2005, 139, 387-396.	1.4	8
50	Effect of quark exchange on the structure function of A = 3 mirror nuclei and neutron/proton structure function ratio. AIP Conference Proceedings, 2005, , .	0.4	1
51	THE ANGULAR MOMENTUM DEPENDENT CALCULATION OF THE GROUND STATE ENERGY OF LIQUID 3He. Modern Physics Letters B, 2005, 19, 1793-1802.	1.9	6
52	EOS OF THE UNIFORM ELECTRON FLUID IN LOCV FRAMEWORK. , 2005, , .		0
53	Lowest Order Constrained Variational Calculation for Nuclear and Neutron Matter with a New Charge-Dependent Reid Potential. Progress of Theoretical Physics, 2004, 112, 21-36.	2.0	27
54	LOCV calculation for the uniform electron fluid at finite temperature. European Physical Journal B, 2003, 31, 159-166.	1.5	15

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55	Lowest order constrained variational method applied to liquid $^mathsf{3}$He. European Physical Journal B, 2003, 36, 485-490.	1.5	30
56	The Q2 dependence of polarized and unpolarized proton structure functions in the relativistic quark exchange framework. European Physical Journal A, 2000, 7, 573-581.	2.5	3
57	New look at the Lanczos method in the lattice gauge model. European Physical Journal C, 2000, 17, 169-172.	3.9	2
58	Lowest-order constrained variational calculation forÎ²-stable matter at finite temperature. Physical Review C, 2000, 62, .	2.9	39
59	Polarized parton distribution in the relativistic quark exchange framework. European Physical Journal A, 1999, 6, 91-97.	2.5	18