

Vadim A Guzey

List of Publications by Year in descending order

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93
papers

4,880
citations

172457

29
h-index

91884

69
g-index

94
all docs

94
docs citations

94
times ranked

6015
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	2.5	898
2	The physics of ultraperipheral collisions at the LHC. Physics Reports, 2008, 458, 1-171.	25.6	425
3	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
4	A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 075001.	3.6	406
5	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
6	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
7	Leading twist nuclear shadowing phenomena in hard processes with nuclei. Physics Reports, 2012, 512, 255-393.	25.6	139
8	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	3.6	120
9	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
10	The Large Hadron-Electron Collider at the HL-LHC. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 110501.	3.6	89
11	Nondiagonal parton distributions in the leading logarithmic approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 418, 345-354.	4.1	76
12	Observations on dA scattering at forward rapidities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 603, 173-183.	4.1	74
13	Evidence for nuclear gluon shadowing from the ALICE measurements of PbPb ultraperipheral exclusive J/ψ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 288-295.	4.1	68
14	Exclusive J/ψ production in ultraperipheral collisions at the LHC: constraints on the gluon distributions in the proton and nuclei. Journal of High Energy Physics, 2013, 2013, 1.	4.7	66
15	Leading twist nuclear shadowing: Uncertainties, comparison to experiments, and higher twist effects. Physical Review D, 2005, 71, .	4.7	62
16	Unitarity and the QCD-improved dipole picture. European Physical Journal C, 2000, 16, 641-656.	3.9	52
17	Nuclear shadowing in deep inelastic scattering on nuclei: leading twist versus eikonal approaches. Journal of High Energy Physics, 2002, 2002, 027-027.	4.7	48
18	Proton-nucleus scattering and cross section fluctuations at RHIC and LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 245-252.	4.1	48

#	ARTICLE	IF	CITATIONS
19	Revealing the Black-Body Regime of Small-xDeep-Inelastic Scattering through Final-State Signals. Physical Review Letters, 2001, 87, 192301.	7.8	47
20	Complete analysis of spin structure function g_1 of ^3He . Physical Review C, 2002, 65, .	2.9	47
21	Deeply virtual Compton scattering on spinless nuclear targets in the impulse approximation. Physical Review C, 2003, 68, .	2.9	42
22	Coherent photoproduction of vector mesons in ultraperipheral heavy ion collisions: Update for run 2 at the CERN Large Hadron Collider. Physical Review C, 2016, 93, .	2.9	41
23	On theA-dependence of nuclear generalized parton distributions. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 251-267.	3.6	37
24	Dual parametrization of the proton generalized parton distribution functionsHandE, and description of the deeply virtual Compton scattering cross sections and asymmetries. Physical Review D, 2006, 74, .	4.7	36
25	Nuclear shadowing in photoproduction of ρ -mesons in ultraperipheral nucleus collisions at RHIC and the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 51-58.	4.1	33
26	Nondiagonal parton distributions in the leading logarithmic approximation [Phys. Lett. B 418 (1997) 345]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 414.	4.1	32
27	Onset of perturbative color opacity at smallxand $\hat{\gamma}$ coherent photoproduction off heavy nuclei at LHC. Journal of High Energy Physics, 2003, 2003, 043-043.	4.7	32
28	Nuclear-mass dependence of azimuthal beam-helicity and beam-charge asymmetries in deeply virtual Compton scattering. Physical Review C, 2010, 81, .	2.9	30
29	Disentangling coherent and incoherent quasielastic ρ/ψ $J/\psi/\Upsilon$ photoproduction on nuclei by neutron tagging in ultraperipheral ion collisions at the LHC. European Physical Journal C, 2014, 74, 1.	3.9	30
30	Colour coherent phenomena on nuclei and the QCD evolution equation. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, R23-R68.	3.6	28
31	Leading twist coherent diffraction on nuclei in deep inelastic scattering at small x and nuclear shadowing. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 41-52.	4.1	28
32	Rapidity and momentum transfer distributions of coherent J/ψ photoproduction in ultraperipheral pPb collisions at the LHC. Journal of High Energy Physics, 2014, 2014, 1.	4.7	25
33	Nuclear physics with a medium-energy Electron-Ion Collider. European Physical Journal A, 2012, 48, 1.	2.5	24
34	Accessing transverse nucleon and gluon distributions in heavy nuclei using coherent vector meson photoproduction at high energies in ion ultraperipheral collisions. Physical Review C, 2017, 95, .	2.9	24
35	Nuclear suppression from coherent J/ψ photoproduction at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136202.	4.1	24
36	Dual parameterization of generalized parton distributions and a description of DVCS data. European Physical Journal C, 2006, 46, 151-156.	3.9	22

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37	The nuclear effects in g_{13}^{He} and the Bjorken sum rule for $A = 3$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 381, 379-384.	4.1	21
38	Cross section fluctuations of a photon projectile in the generalized vector meson dominance model. <i>Physical Review D</i> , 1998, 58, .	4.7	20
39	Determining the proximity of $\hat{\sigma}^{\text{N}}_{\text{scattering}}$ to the black body limit using deep inelastic scattering and J/ψ production. <i>Physical Review D</i> , 2004, 69, .	4.7	20
40	Diffraction dijet photoproduction in ultraperipheral collisions at the LHC in next-to-leading order QCD. <i>Journal of High Energy Physics</i> , 2016, 2016, 1-38.	4.7	19
41	Revealing "flickering" of the interaction strength in pA collisions at the CERN LHC. <i>Physical Review C</i> , 2014, 90, .	2.9	18
42	On the mistake in the implementation of the minimal model of the dual parametrization and resulting inability to describe the high-energy deeply virtual Compton data. <i>Physical Review D</i> , 2009, 79, .	4.7	17
43	First global next-to-leading order determination of diffractive parton distribution functions and their uncertainties within the xFitter framework. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	17
44	Nuclear parton distribution functions with uncertainties in a general mass variable flavor number scheme. <i>Physical Review D</i> , 2021, 104, .	4.7	17
45	Nucleon and Nuclear Structure Through Dilepton Production. <i>Acta Physica Polonica B</i> , 2018, 49, 741.	0.8	17
46	Study of nondiagonal parton distribution models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 462, 178-188.	4.1	16
47	Nuclear effects in $g_1^A(x, Q^2)$ at small x in deep inelastic scattering on ^7Li and ^3He . <i>Physical Review C</i> , 1999, 61, .	2.9	15
48	Neutron contribution to nuclear deeply virtual Compton scattering asymmetries. <i>Physical Review C</i> , 2008, 78, .	2.9	15
49	Color fluctuation approximation for multiple interactions in leading twist theory of nuclear shadowing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 687, 167-173.	4.1	15
50	Neutron spin structure with polarized deuterons and spectator proton tagging at EIC. <i>Journal of Physics: Conference Series</i> , 2014, 543, 012007.	0.4	15
51	Medium modifications of the bound nucleon GPDs and incoherent DVCS on nuclear targets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 673, 9-14.	4.1	13
52	Constraints on nuclear parton distributions from dijet photoproduction at the LHC. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	13
53	Nucleon dissociation and incoherent J/ψ photoproduction on nuclei in ion ultraperipheral collisions at the CERN Large Hadron Collider. <i>Physical Review C</i> , 2019, 99, .	2.9	13
54	Production of $\bar{\nu}_\tau + n + D^+ + \bar{\nu}_\tau + \bar{\nu}_\tau$ and $\bar{\nu}_\tau + D^+ + \bar{\nu}_\tau + \bar{\nu}_\tau$ reactions. <i>Physical Review C</i> , 2004, 69, .	2.9	11

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55	Massive neutral gauge boson production as a probe of nuclear modifications of parton distributions at the LHC. <i>European Physical Journal A</i> , 2013, 49, 1.	2.5	11
56	Inclusive dijet photoproduction in ultraperipheral heavy ion collisions at the CERN Large Hadron Collider in next-to-leading order QCD. <i>Physical Review C</i> , 2019, 99, .	2.9	11
57	Impact of nuclear dependence of R_{pA}^L on antishadowing in nuclear structure functions. <i>Physical Review C</i> , 2012, 86, .	2.9	10
58	Dynamical model of antishadowing of the nuclear gluon distribution. <i>Physical Review C</i> , 2017, 95, .	2.9	10
59	Effects of next-to-leading order DGLAP evolution on generalized parton distributions of the proton and deeply virtual Compton scattering at high energy. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	10
60	Nuclear Shadowing and Extraction of $F_2^p - F_2^n$ at Small x from Deuteron Collider Data. <i>Physical Review Letters</i> , 2003, 91, 202001.	7.8	9
61	SU(3) systematization of baryons: Theoretical methods and mixing with the antidecuplet. <i>Annalen Der Physik</i> , 2004, 13, 673-681.	2.4	8
62	Deeply Virtual Compton Scattering on nucleons and nuclei in the Generalized Vector Meson Dominance model. <i>European Physical Journal A</i> , 2008, 36, 49-60.	2.5	8
63	A fresh look at factorization breaking in diffractive photoproduction of dijets at HERA at next-to-leading order QCD. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	8
64	Color fluctuations in hadrons and proton coherent diffractive dissociation on helium. <i>Physical Review C</i> , 1995, 52, R1189-R1192.	2.9	7
65	Role of the Delta (1232) in deep inelastic scattering on polarized ^3He and extraction of the neutron spin structure function $g_1^n(x, Q^2)$. <i>Physical Review D</i> , 2001, 64, .	4.7	7
66	NUCLEAR SHADOWING IN INCLUSIVE AND TAGGED DEUTERON STRUCTURE FUNCTIONS AND EXTRACTION OF $F_2^p - F_2^n$ AT SMALL x FROM ELECTRON-DEUTERON COLLIDER DATA. <i>Modern Physics Letters A</i> , 2006, 21, 23-40.	1.2	7
67	Generalized parton distributions and deeply virtual Compton scattering in color glass condensate model. <i>European Physical Journal C</i> , 2008, 56, 203-219.	3.9	7
68	Leading twist nuclear shadowing, nuclear generalized parton distributions, and nuclear deeply virtual Compton scattering at small x . <i>Physical Review C</i> , 2009, 79, .	2.9	7
69	Electron-deuteron DIS with spectator tagging at EIC: Development of theoretical framework. <i>EPJ Web of Conferences</i> , 2016, 112, 01022.	0.3	7
70	Photoproduction of light vector mesons in Xe-Xe ultraperipheral collisions at the LHC and the nuclear density of Xe-129 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 251-255.	4.1	7
71	Diffractive dijet photoproduction at the EIC. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	6
72	Nuclear shadowing in polarized deep inelastic scattering on ^6Li and its effect on the extraction of the deuteron spin structure function $g_1^d(x, Q^2)$. <i>Physical Review C</i> , 2001, 64, .	2.9	5

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73	Incoherent \bar{p} meson photoproduction in ultraperipheral nuclear collisions at the CERN Large Hadron Collider. Physical Review C, 2020, 102, .	2.9	5
74	Leading-twist nuclear shadowing and suppression of hard coherent diffraction in proton-nucleus scattering. Physical Review C, 2007, 75, .	2.9	4
75	Medium modifications of the bound nucleon generalized parton distributions and the quark contribution to the spin sum rule. Physical Review C, 2009, 79, .	2.9	4
76	Mapping color fluctuations in the photon in ultraperipheral heavy ion collisions at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 450-457.	4.1	4
77	Next-to-leading order QCD predictions for dijet photoproduction in lepton-nucleus scattering at the future EIC and at possible LHeC, HE-LHeC, and FCC facilities. Physical Review C, 2020, 102, .	2.9	4
78	Nonsinglet structure function of the $^3\text{He} \bar{p}$ system and divergence of the Gottfried integral. Physical Review D, 2001, 64, .	4.7	3
79	Electromagnetic and strong contributions to d soft coherent inelastic diffraction at the DNL-Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2008, 77, .	2.9	3
80	The Electron-Ion Collider. , 2009, , .		2
81	Generalized parton distributions of nuclei. , 2009, , .		2
82	How large is the diffractive contribution to inclusive dijet photoproduction in ultraperipheral collisions at the LHC?. Physical Review D, 2021, 104, .	4.7	2
83	Nondiagonal parton distributions at small x . , 1997, , .		1
84	Pions in isospin asymmetric nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 93-100.	4.1	1
85	Mixing and decays of the antidecuplet in context of approximate SU(3) symmetry. AIP Conference Proceedings, 2005, , .	0.4	1
86	Inclusive and diffractive dijet photoproduction in UPCs at the LHC in NLO QCD. , 2020, , .		1
87	NUCLEAR EFFECTS IN SPIN STRUCTURE FUNCTION g_1 OF ^3He . International Journal of Modern Physics A, 2003, 18, 1473-1476.	1.5	0
88	NUCLEAR GENERALIZED PARTON DISTRIBUTIONS AND COHERENT NUCLEAR PROCESSES. , 2011, , .		0
89	Dijet Photoproduction in Ultraperipheral Collisions at the LHC and Nuclear PDFs at Small x . Physics of Particles and Nuclei Letters, 2019, 16, 498-502.	0.4	0
90	A U.S.-based Electron-Ion Collider. Journal of Physics: Conference Series, 2019, 1390, 012123.	0.4	0

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91	Nuclear form factor of xenon from photoproduction of vector mesons in Xe-Xe ultraperipheral collisions at the LHC. Journal of Physics: Conference Series, 2020, 1690, 012137.	0.4	0
92	Inclusive and diffractive dijet photoproduction in ultraperipheral heavy ion collisions at the LHC. SciPost Physics Proceedings, 2022, , .	0.4	0
93	Prospects for diffractive dijet photoproduction at the EIC. SciPost Physics Proceedings, 2022, , .	0.4	0