

# Vadim A Guzey

## List of Publications by Year in descending order

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93  
papers

4,880  
citations

172386

29  
h-index

91828

69  
g-index

94  
all docs

94  
docs citations

94  
times ranked

6015  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive and diffractive dijet photoproduction in ultraperipheral heavy ion collisions at the LHC. SciPost Physics Proceedings, 2022, , .	0.2	0
2	Prospects for diffractive dijet photoproduction at the EIC. SciPost Physics Proceedings, 2022, , .	0.2	0
3	Nuclear suppression from coherent $J/\psi$ photoproduction at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136202.	1.5	24
4	Nuclear parton distribution functions with uncertainties in a general mass variable flavor number scheme. Physical Review D, 2021, 104, .	1.6	17
5	The Large Hadronâ€“Electron Collider at the HL-LHC. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 110501.	1.4	89
6	How large is the diffractive contribution to inclusive dijet photoproduction in ultraperipheral collisions at the LHC?. Physical Review D, 2021, 104, .	1.6	2
7	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, .	1.1	4
8	Incoherent $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi}> \tilde{\kappa} \langle \text{mml:mi}> \langle \text{mml:math}>$ meson photoproduction in ultraperipheral nuclear collisions at the CERN Large Hadron Collider. Physical Review C, 2020, 102, .	1.1	5
9	Diffractive dijet photoproduction at the EIC. Journal of High Energy Physics, 2020, 2020, 1.	1.6	6
10	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.	0.3	0
11	Inclusive and diffractive dijet photoproduction in UPCs at the LHC in NLO QCD. , 2020, , .		1
12	Inclusive dijet photoproduction in ultraperipheral heavy ion collisions at the CERN Large Hadron Collider in next-to-leading order QCD. Physical Review C, 2019, 99, .	1.1	11
13	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	1.2	367
14	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	1.2	108
15	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	1.2	424
16	Dijet Photoproduction in Ultraperipheral Collisions at the LHC and Nuclear PDFs at Small x. Physics of Particles and Nuclei Letters, 2019, 16, 498-502.	0.1	0
17	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	1.4	346
18	Constraints on nuclear parton distributions from dijet photoproduction at the LHC. European Physical Journal C, 2019, 79, 1.	1.4	13

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19	Nucleon dissociation and incoherent $\gamma$ photoproduction on nuclei in ion ultraperipheral collisions at the CERN Large Hadron Collider. Physical Review C, 2019, 99, .	1.1	13
20	A U.S.-based Electron-Ion Collider. Journal of Physics: Conference Series, 2019, 1390, 012123.	0.3	0
21	Effects of next-to-leading order DGLAP evolution on generalized parton distributions of the proton and deeply virtual Compton scattering at high energy. European Physical Journal C, 2018, 78, 1.	1.4	10
22	First global next-to-leading order determination of diffractive parton distribution functions and their uncertainties within the xFitter framework. European Physical Journal C, 2018, 78, 1.	1.4	17
23	Photoproduction of light vector mesons in Xe-Xe ultraperipheral collisions at the LHC and the nuclear density of Xe-129. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 251-255.	1.5	7
24	Nucleon and Nuclear Structure Through Dilepton Production. Acta Physica Polonica B, 2018, 49, 741.	0.3	17
25	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.	1.5	4
26	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, .	1.1	24
27	Dynamical model of antishadowing of the nuclear gluon distribution. Physical Review C, 2017, 95, .	1.1	10
28	Electron-deuteron DIS with spectator tagging at EIC: Development of theoretical framework. EPJ Web of Conferences, 2016, 112, 01022.	0.1	7
29	Electron-Ion Collider: The next QCD frontier. European Physical Journal A, 2016, 52, 1.	1.0	898
30	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, .	1.1	41
31	A fresh look at factorization breaking in diffractive photoproduction of dijets at HERA at next-to-leading order QCD. European Physical Journal C, 2016, 76, 1.	1.4	8
32	Diffractive dijet photoproduction in ultraperipheral collisions at the LHC in next-to-leading order QCD. Journal of High Energy Physics, 2016, 2016, 1-38.	1.6	19
33	Nuclear shadowing in photoproduction of $\rho$ -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.	1.5	33
34	Revealing "flickering" of the interaction strength in pA collisions at the CERN LHC. Physical Review C, 2014, 90, .	1.1	18
35	Rapidity and momentum transfer distributions of coherent $J/\psi$ photoproduction in ultraperipheral pPb collisions at the LHC. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
36	Disentangling coherent and incoherent quasielastic $J/\psi$ photoproduction on nuclei by neutron tagging in ultraperipheral ion collisions at the LHC. European Physical Journal C, 2014, 74, 1.	1.4	30

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37	Neutron spin structure with polarized deuterons and spectator proton tagging at EIC. Journal of Physics: Conference Series, 2014, 543, 012007.	0.3	15
38	Massive neutral gauge boson production as a probe of nuclear modifications of parton distributions at the LHC. European Physical Journal A, 2013, 49, 1.	1.0	11
39	Exclusive $J/\psi$ 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.	1.6	66
40	Evidence for nuclear gluon shadowing from the ALICE measurements of PbPb ultraperipheral exclusive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false" \rangle} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 290-295.	1.5	68
41	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	1.4	120
42	Impact of nuclear dependence of $R_{pA}^{\text{DGLAP}}$ on antishadowing in nuclear structure functions. Physical Review C, 2012, 86, .	1.1	10
43	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.	1.4	406
44	Nuclear physics with a medium-energy Electron-Ion Collider. European Physical Journal A, 2012, 48, 1.	1.0	24
45	Leading twist nuclear shadowing phenomena in hard processes with nuclei. Physics Reports, 2012, 512, 255-393.	10.3	139
46	NUCLEAR GENERALIZED PARTON DISTRIBUTIONS AND COHERENT NUCLEAR PROCESSES. , 2011, , .		0
47	Color fluctuation approximation for multiple interactions in leading twist theory of nuclear shadowing. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 167-173.	1.5	15
48	Nuclear-mass dependence of azimuthal beam-helicity and beam-charge asymmetries in deeply virtual Compton scattering. Physical Review C, 2010, 81, .	1.1	30
49	Medium modifications of the bound nucleon generalized parton distributions and the quark contribution to the spin sum rule. Physical Review C, 2009, 79, .	1.1	4
50	Leading twist nuclear shadowing, nuclear generalized parton distributions, and nuclear deeply virtual Compton scattering at small $x$ . Physical Review C, 2009, 79, .	1.1	7
51	The Electron-Ion Collider. , 2009, , .		2
52	Generalized parton distributions of nuclei. , 2009, , .		2
53	Medium modifications of the bound nucleon GPDs and incoherent DVCS on nuclear targets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 9-14.	1.5	13
54	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. Physical Review D, 2009, 79, .	1.6	17

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55	The physics of ultraperipheral collisions at the LHC. Physics Reports, 2008, 458, 1-171.	10.3	425
56	Deeply Virtual Compton Scattering on nucleons and nuclei in the Generalized Vector Meson Dominance model. European Physical Journal A, 2008, 36, 49-60.	1.0	8
57	Generalized parton distributions and deeply virtual Compton scattering in color glass condensate model. European Physical Journal C, 2008, 56, 203-219.	1.4	7
58	Neutron contribution to nuclear deeply virtual Compton scattering asymmetries. Physical Review C, 2008, 78, .	1.1	15
59	Electromagnetic and strong contributions to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > \langle \text{mml:mrow} > \langle \text{mml:mi} > d < / \text{mml:mi} > \langle \text{mml:mi} > \text{mathvariant="normal"} > \text{Au} < / \text{mml:mi} > < / \text{mml:mrow} > \langle \text{mml:math} > \text{soft coherent inelastic diffraction at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2008, 77, .$	1.1	3
60	Leading-twist nuclear shadowing and suppression of hard coherent diffraction in proton-nucleus scattering. Physical Review C, 2007, 75, .	1.1	4
61	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.	1.5	48
62	Dual parameterization of generalized parton distributions and a description of DVCS data. European Physical Journal C, 2006, 46, 151-156.	1.4	22
63	On the A-dependence of nuclear generalized parton distributions. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 251-267.	1.4	37
64	Dual parametrization of the proton generalized parton distribution functions and description of the deeply virtual Compton scattering cross sections and asymmetries. Physical Review D, 2006, 74, .	1.6	36
65	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. Modern Physics Letters A, 2006, 21, 23-40.	0.5	7
66	Mixing and decays of the antidecuplet in context of approximate SU(3) symmetry. AIP Conference Proceedings, 2005, , .	0.3	1
67	Leading twist nuclear shadowing: Uncertainties, comparison to experiments, and higher twist effects. Physical Review D, 2005, 71, .	1.6	62
68	Production of $\bar{p} + n \rightarrow \bar{p} + \Delta^+ + \bar{n}$ and $\bar{p} + n \rightarrow \bar{p} + \Delta^+ + \bar{p}$ reactions. Physical Review C, 2004, 69, .	1.1	11
69	Determining the proximity of $\bar{p} + n$ scattering to the black body limit using deep inelastic scattering and $J/\psi$ production. Physical Review D, 2004, 69, .	1.6	20
70	SU(3) systematization of baryons: Theoretical methods and mixing with the antidecuplet. Annalen Der Physik, 2004, 13, 673-681.	0.9	8
71	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.	1.5	28
72	Observations on dA scattering at forward rapidities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 603, 173-183.	1.5	74

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73	Deeply virtual Compton scattering on spinless nuclear targets in the impulse approximation. Physical Review C, 2003, 68, .	1.1	42
74	Nuclear Shadowing and Extraction of $F_2^p - F_2^n$ from Deuteron Collider Data. Physical Review Letters, 2003, 91, 202001.	2.9	9
75	NUCLEAR EFFECTS IN SPIN STRUCTURE FUNCTION $g_1$ OF $^3\text{He}$ . International Journal of Modern Physics A, 2003, 18, 1473-1476.	0.5	0
76	Onset of perturbative color opacity at small $x$ and $\hat{\gamma}$ coherent photoproduction off heavy nuclei at LHC. Journal of High Energy Physics, 2003, 2003, 043-043.	1.6	32
77	Complete analysis of spin structure function $g_1$ of $^3\text{He}$ . Physical Review C, 2002, 65, .	1.1	47
78	Nuclear shadowing in deep inelastic scattering on nuclei: leading twist versus eikonal approaches. Journal of High Energy Physics, 2002, 2002, 027-027.	1.6	48
79	Pions in isospin asymmetric nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 93-100.	1.5	1
80	Colour coherent phenomena on nuclei and the QCD evolution equation. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, R23-R68.	1.4	28
81	Nonsinglet structure function of the $^3\text{He} \rightarrow ^3\text{H}$ system and divergence of the Gottfried integral. Physical Review D, 2001, 64, .	1.6	3
82	Nuclear shadowing in polarized deep inelastic scattering on $^6\text{Li}$ and its effect on the extraction of the deuteron spin structure function $g_1^d(x, Q^2)$ . Physical Review C, 2001, 64, .	1.1	5
83	Revealing the Black-Body Regime of Small- $x$ Deep-Inelastic Scattering through Final-State Signals. Physical Review Letters, 2001, 87, 192301.	2.9	47
84	Role of the Delta (1232) in deep inelastic scattering on polarized $^3\text{He}$ and extraction of the neutron spin structure function $g_1^n(x, Q^2)$ . Physical Review D, 2001, 64, .	1.6	7
85	Unitarity and the QCD-improved dipole picture. European Physical Journal C, 2000, 16, 641-656.	1.4	52
86	Nuclear effects in $g_1^A(x, Q^2)$ at small $x$ in deep inelastic scattering on $^7\text{Li}$ and $^3\text{He}$ . Physical Review C, 1999, 61, .	1.1	15
87	Study of nondiagonal parton distribution models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 462, 178-188.	1.5	16
88	Nondiagonal parton distributions in the leading logarithmic approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 418, 345-354.	1.5	76
89	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.	1.5	32
90	Cross section fluctuations of a photon projectile in the generalized vector meson dominance model. Physical Review D, 1998, 58, .	1.6	20

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91	Nondiagonal parton distributions at small $x$ , , 1997, , .		1
92	The nuclear effects in $g_{13\text{He}}$ and the Bjorken sum rule for $A = 3$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 381, 379-384.	1.5	21
93	Color fluctuations in hadrons and proton coherent diffractive dissociation on helium. Physical Review C, 1995, 52, R1189-R1192.	1.1	7