

# Raju Venugopalan

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

8,264  
citations

71102

41  
h-index

123424

61  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4004  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computing quark and gluon distribution functions for very large nuclei. Physical Review D, 1994, 49, 2233-2241.	4.7	1,654
2	Gluon distribution functions for very large nuclei at small transverse momentum. Physical Review D, 1994, 49, 3352-3355.	4.7	1,195
3	The Color Glass Condensate. Annual Review of Nuclear and Particle Science, 2010, 60, 463-489.	10.2	909
4	Non-perturbative computation of gluon mini-jet production in nuclear collisions at very high energies. Nuclear Physics B, 1999, 557, 237-270.	2.5	244
5	Event-by-event gluon multiplicity, energy density, and eccentricities in ultrarelativistic heavy-ion collisions. Physical Review C, 2012, 86, .	2.9	240
6	Comparison of the color glass condensate to dihadron correlations in proton-proton and proton-nucleus collisions. Physical Review D, 2013, 87, .	4.7	223
7	Collective Non-Abelian Instabilities in a Melting Color Glass Condensate. Physical Review Letters, 2006, 96, 062302.	7.8	222
8	Initial Gluon Multiplicity in Heavy-Ion Collisions. Physical Review Letters, 2001, 86, 1717-1720.	7.8	205
9	Initial-state geometry and the role of hydrodynamics in proton-proton, proton-nucleus, and deuteron-nucleus collisions. Physical Review C, 2013, 87, .	2.9	201
10	Analysis of combined HERA data in the impact-parameter dependent saturation model. Physical Review D, 2013, 87, .	4.7	181
11	The unstable glasma. Physical Review D, 2006, 74, .	4.7	177
12	Quantum corrections to the Weizsäcker-Williams gluon distribution function at small $x$ . Physical Review D, 1996, 53, 458-475.	4.7	171
13	PREDICTIONS FOR $p+Pb$ COLLISIONS AT $\sqrt{s_{NN}} = 5$ TeV. International Journal of Modern Physics E, 2013, 22, 1330007	1.0	165
14	Eccentric Protons? Sensitivity of Flow to System Size and Shape in $p+Pb$ Collisions. Physical Review Letters, 2014, 113, 192301	7.8	133
15	High multiplicity dihadron data at $\sqrt{s_{NN}} = 5.02$ TeV. Physical Review Letters, 2014, 113, 192301	4.7	126
16	STUDY OF THE FUNDAMENTAL STRUCTURE OF MATTER WITH AN ELECTRON-ION COLLIDER. Annual Review of Nuclear and Particle Science, 2005, 55, 165-228.	10.2	119
17	Comprehensive Description of $J/\psi$ Production in Proton-Proton Collisions at Collider Energies. Physical Review Letters, 2014, 113, 192301.	7.8	110
18	High energy factorization in nucleus-nucleus collisions. I. Physical Review D, 2008, 78, .	4.7	102

#	ARTICLE	IF	CITATIONS
19	Evidence for BFKL and saturation dynamics from dihadron spectra at the LHC. Physical Review D, 2013, 87, .	4.7	98
20	QCD thermalization: <i>Ab initio</i> approaches and interdisciplinary connections. Reviews of Modern Physics, 2021, 93, .	45.6	89
21	Mass Ordering of Spectra from Fragmentation of Saturated Gluon States in High-Multiplicity Proton-Proton Collisions. Physical Review Letters, 2016, 117, 162301.	7.8	84
22	Particle production in field theories coupled to strong external sources, I: Formalism and main results. Nuclear Physics A, 2006, 776, 135-171.	1.5	81
23	High energy factorization in nucleus-nucleus collisions. II. Multigluon correlations. Physical Review D, 2008, 78, .	4.7	81
24	High energy factorization in nucleus-nucleus collisions. III. Long range rapidity correlations. Physical Review D, 2009, 79, .	4.7	81
25	HIGH ENERGY SCATTERING IN QUANTUM CHROMODYNAMICS. International Journal of Modern Physics E, 2007, 16, 2595-2637.	1.0	75
26	Hierarchy of Azimuthal Anisotropy Harmonics in Collisions of Small Systems from the Color Glass Condensate. Physical Review Letters, 2018, 121, 052301.	7.8	74
27	Chiral anomaly, Berry phase, and chiral kinetic theory from worldlines in quantum field theory. Physical Review D, 2018, 97, .	4.7	73
28	Worldline construction of a covariant chiral kinetic theory. Physical Review D, 2017, 96, .	4.7	71
29	Off-equilibrium sphaleron transitions in the glasma. Physical Review D, 2016, 93, .	4.7	67
30	Universal Off-Equilibrium Scaling of Critical Cumulants in the QCD Phase Diagram. Physical Review Letters, 2016, 117, 222301.	7.8	66
31	Multiparticle Collectivity from Initial State Correlations in High Energy Proton-Nucleus Collisions. Physical Review Letters, 2018, 120, 042002.	7.8	62
32	From a colored glass condensate to the gluon plasma: Equilibration in high energy heavy ion collisions. Physical Review C, 2001, 63, .	2.9	54
33	$J \tilde{\tau}$ production and suppression in high-energy proton-nucleus collisions. Physical Review D, 2015, 92, .	4.7	52
34	The initial spectrum of fluctuations in the little bang. Nuclear Physics A, 2011, 872, 161-195. <a href="#">Multiplicity distributions in</a>	1.5	50
35	$p \rightarrow p + p$ and $A \rightarrow A + A$ Parton model description of multiparticle azimuthal correlations in	2.9	50
36	$p \rightarrow p A$ collisions. Physical Review D, 2018, 97, .	4.7	49

#	ARTICLE	IF	CITATIONS
37	Dynamics of entanglement in expanding quantum fields. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
38	Quarkonium production in high energy proton-nucleus collisions: CGC meets NRQCD. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
39	Probing gluon saturation with next-to-leading order photon production at central rapidities in proton-nucleus collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
40	Deeply inelastic scattering structure functions on a hybrid quantum computer. Physical Review D, 2020, 102, .	4.7	45
41	Initial-state geometry and fluctuations in Au+Au, Cu+Au, and U+U collisions at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2014, 89, .	2.9	43
42	Thermal excitation spectrum from entanglement in an expanding quantum string. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 442-446.	4.1	39
43	Instability induced pressure isotropization in a longitudinally expanding system. Physical Review D, 2012, 86, .	4.7	38
44	Dijet impact factor in DIS at next-to-leading order in the Color Glass Condensate. Journal of High Energy Physics, 2021, 2021, 1.	4.7	38
45	Production of inclusive photon+jet pairs in deep inelastic scattering at small x. Physical Review D, 2020, 101, .	4.7	33
46	Event engineering studies for heavy flavor production and hadronization in high multiplicity hadron-hadron and hadron-nucleus collisions. Physical Review D, 2018, 98, .	4.7	31
47	Inclusive prompt photon production in electron-nucleus scattering at small x. Journal of High Energy Physics, 2018, 2018, 1.	4.7	24
48	Suppression in proton-nucleus collisions from factorization violating soft color exchanges. Physical Review C, 2018, 97, .	2.9	22
49	Energy dependence of the ridge in high multiplicity proton-proton collisions. Physical Review D, 2016, 93, .	4.7	21
50	Role of the chiral anomaly in polarized deeply inelastic scattering: Finding the triangle graph inside the box diagram in Bjorken and Regge asymptotics. Physical Review D, 2020, 102, .	4.7	21
51	Off-equilibrium infrared structure of self-interacting scalar fields: Universal scaling, vortex-antivortex superfluid dynamics, and Bose-Einstein condensation. Physical Review A, 2018, 97, .	2.5	20
52	Inclusive prompt photon-jet correlations as a probe of gluon saturation in electron-nucleus scattering at small x. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
53	J/ψ polarization in the CGC+NRQCD approach. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
54	Measuring color memory in a color glass condensate at electron-ion colliders. Annals of Physics, 2019, 407, 15-28.	2.8	18

#	ARTICLE	IF	CITATIONS
55	Classicalization and unitarization of wee partons in QCD and gravity: The CGC-black hole correspondence. Physical Review D, 2022, 105, .	4.7	17
56	Role of the chiral anomaly in polarized deeply inelastic scattering. II. Topological screening and transitions from emergent axionlike dynamics. Physical Review D, 2022, 105, .	4.7	14
57	Extracting many-body correlators of saturated gluons with precision from inclusive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{photon} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{dijet} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math final states in deeply inelastic scattering. Physical Review D, 2020, 101, .$	4.7	12
58	Particle production and AGK cancellations in the Color Glass Condensate framework. Nuclear Physics A, 2007, 782, 297-304.	1.5	9
59	NLO Impact Factor for Inclusive Photon+Dijet Production in e + A DIS at Small x. , 2020, , .		8
60	COMPUTING EARLY-TIME DYNAMICS IN HEAVY ION COLLISIONS: STATUS, PROBLEMS AND PROSPECTS. International Journal of Modern Physics Conference Series, 2011, 04, 35-45.	0.7	2
61	What's new at small x?. Pramana - Journal of Physics, 2000, 55, 73-84.	1.8	1
62	Why we need an electron-ion collider. Annalen Der Physik, 2016, 528, 131-137.	2.4	1
63	Glasma fluctuations in heavy-ion collisions. , 2013, , .		0
64	SOLUTION OF THE BOLTZMANN EQUATION FOR GLUONS AFTER A HEAVY ION COLLISION. , 2001, , .		0
65	Inclusive Isolated Photon in pp Collisions up to the Next Leading Order with CGC. , 2019, , .		0
66	CGC Photon Production at NLO in pA Collisions. , 2020, , .		0