

Raju Venugopalan

List of Publications by Year in descending order

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66
papers

8,264
citations

71102

41
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61
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66
docs citations

66
times ranked

4004
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the chiral anomaly in polarized deeply inelastic scattering. II. Topological screening and transitions from emergent axionlike dynamics. <i>Physical Review D</i> , 2022, 105, .	4.7	14
2	Classicalization and unitarization of wee partons in QCD and gravity: The CGC-black hole correspondence. <i>Physical Review D</i> , 2022, 105, .	4.7	17
3	Inclusive prompt photon-jet correlations as a probe of gluon saturation in electron-nucleus scattering at small x . <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	19
4	QCD thermalization: <i>Ab initio</i> approaches and interdisciplinary connections. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	89
5	Dijet impact factor in DIS at next-to-leading order in the Color Glass Condensate. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	38
6	NLO impact factor for inclusive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{photon} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{dijet} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{production in} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ DIS at small x . <i>Physical Review D</i> , 2020, 101, .	4.7	33
7	Deeply inelastic scattering structure functions on a hybrid quantum computer. <i>Physical Review D</i> , 2020, 102, .	4.7	45
8	Extracting many-body correlators of saturated gluons with precision from inclusive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{photon} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{dijet} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ final states in deeply inelastic scattering. <i>Physical Review D</i> , 2020, 101, .	4.7	12
9	Role of the chiral anomaly in polarized deeply inelastic scattering: Finding the triangle graph inside the box diagram in Bjorken and Regge asymptotics. <i>Physical Review D</i> , 2020, 102, .	4.7	21
10	NLO Impact Factor for Inclusive Photon+Dijet Production in $e + A$ DIS at Small x . , 2020, , .		8
11	CGC Photon Production at NLO in pA Collisions. , 2020, , .		0
12	Measuring color memory in a color glass condensate at electron-ion colliders. <i>Annals of Physics</i> , 2019, 407, 15-28.	2.8	18
13	Inclusive Isolated Photon in pp Collisions up to the Next Leading Order with CGC. , 2019, , .		0
14	Parton model description of multiparticle azimuthal correlations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ collisions. <i>Physical Review D</i> , 2018, 97, .	4.7	49
15	Multiparticle Collectivity from Initial State Correlations in High Energy Proton-Nucleus Collisions. <i>Physical Review Letters</i> , 2018, 120, 042002.	7.8	62
16	Inclusive prompt photon production in electron-nucleus scattering at small x . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	24
17	Chiral anomaly, Berry phase, and chiral kinetic theory from worldlines in quantum field theory. <i>Physical Review D</i> , 2018, 97, .	4.7	73
18	J/ψ polarization in the CGC+NRQCD approach. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	18

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19	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
20	suppression in proton-nucleus collisions from factorization violating soft color exchanges. Physical Review C, 2018, 97, .	2.9	22
21	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
22	Dynamics of entanglement in expanding quantum fields. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
23	Hierarchy of Azimuthal Anisotropy Harmonics in Collisions of Small Systems from the Color Glass Condensate. Physical Review Letters, 2018, 121, 052301.	7.8	74
24	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
25	Worldline construction of a covariant chiral kinetic theory. Physical Review D, 2017, 96, .	4.7	71
26	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
27	Why we need an electron-ion collider. Annalen Der Physik, 2016, 528, 131-137.	2.4	1
28	Universal Off-Equilibrium Scaling of Critical Cumulants in the QCD Phase Diagram. Physical Review Letters, 2016, 117, 222301.	7.8	66
29	Energy dependence of the ridge in high multiplicity proton-proton collisions. Physical Review D, 2016, 93, .	4.7	21
30	Off-equilibrium sphaleron transitions in the glasma. Physical Review D, 2016, 93, .	4.7	67
31	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
32	production and suppression in high-energy proton-nucleus collisions. Physical Review D, 2015, 92, .	4.7	52
33	Initial-state geometry and fluctuations in Au+Au, Cu+Cu, and U+U collisions at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2014, 89, .	2.9	43
34	Multiplicity distributions in and Sensitivity of Flow to System Size and Shape in from Yang-Mills dynamics. Physical Review C, 2014, 89, .	2.9	50
35	Quarkonium production in high energy proton-nucleus collisions: CGC meets NRQCD. Journal of High Energy Physics, 2014, 2014, 1.	7.8	133
36	Quarkonium production in high energy proton-nucleus collisions: CGC meets NRQCD. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45

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37	Comprehensive Description of J/ψ Production in Proton-Proton Collisions at Collider Energies. Physical Review Letters, 2014, 113, 192301.	7.8	110
38	Comparison of the color glass condensate to dihadron correlations in proton-proton and proton-nucleus collisions. Physical Review D, 2013, 87, .	4.7	223
39	Explanation of systematics of CMS p -Pb high multiplicity dihadron data at $\sqrt{s} = 5.02$ TeV. Physical Review D, 2013, 87, .	4.7	126
40	Glasma fluctuations in heavy-ion collisions. , 2013, , .		0
41	Evidence for BFKL and saturation dynamics from dihadron spectra at the LHC. Physical Review D, 2013, 87, .	4.7	98
42	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
43	Analysis of combined HERA data in the impact-parameter dependent saturation model. Physical Review D, 2013, 87, .	4.7	181
44	PREDICTIONS FOR p -Pb COLLISIONS AT $\sqrt{s} = 5$ TeV. International Journal of Modern Physics E, 2013, 22, 1330007.	1.0	165
45	Event-by-event gluon multiplicity, energy density, and eccentricities in ultrarelativistic heavy-ion collisions. Physical Review C, 2012, 86, .	2.9	240
46	Instability induced pressure isotropization in a longitudinally expanding system. Physical Review D, 2012, 86, .	4.7	38
47	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
48	The initial spectrum of fluctuations in the little bang. Nuclear Physics A, 2011, 872, 161-195.	1.5	50
49	The Color Glass Condensate. Annual Review of Nuclear and Particle Science, 2010, 60, 463-489.	10.2	909
50	High energy factorization in nucleus-nucleus collisions. III. Long range rapidity correlations. Physical Review D, 2009, 79, .	4.7	81
51	High energy factorization in nucleus-nucleus collisions. I. Physical Review D, 2008, 78, .	4.7	102
52	High energy factorization in nucleus-nucleus collisions. II. Multigluon correlations. Physical Review D, 2008, 78, .	4.7	81
53	HIGH ENERGY SCATTERING IN QUANTUM CHROMODYNAMICS. International Journal of Modern Physics E, 2007, 16, 2595-2637.	1.0	75
54	Particle production and AGK cancellations in the Color Glass Condensate framework. Nuclear Physics A, 2007, 782, 297-304.	1.5	9

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55	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
56	Collective Non-Abelian Instabilities in a Melting Color Glass Condensate. Physical Review Letters, 2006, 96, 062302.	7.8	222
57	The unstable glasma. Physical Review D, 2006, 74, .	4.7	177
58	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
59	From a colored glass condensate to the gluon plasma: Equilibration in high energy heavy ion collisions. Physical Review C, 2001, 63, .	2.9	54
60	Initial Gluon Multiplicity in Heavy-Ion Collisions. Physical Review Letters, 2001, 86, 1717-1720.	7.8	205
61	SOLUTION OF THE BOLTZMANN EQUATION FOR GLUONS AFTER A HEAVY ION COLLISION. , 2001, , .		0
62	What's new at small x ?. Pramana - Journal of Physics, 2000, 55, 73-84.	1.8	1
63	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
64	Quantum corrections to the Weizsäcker-Williams gluon distribution function at small x . Physical Review D, 1996, 53, 458-475.	4.7	171
65	Gluon distribution functions for very large nuclei at small transverse momentum. Physical Review D, 1994, 49, 3352-3355.	4.7	1,195
66	Computing quark and gluon distribution functions for very large nuclei. Physical Review D, 1994, 49, 2233-2241.	4.7	1,654