

Rajan Gupta

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,944
citations

201674

27
h-index

330143

37
g-index

39
all docs

39
docs citations

39
times ranked

2372
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral and deconfinement aspects of the QCD transition. Physical Review D, 2012, 85, .	4.7	752
2	Equation of state in ($\langle \bar{\psi}\psi \rangle$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (d QCD. Physical Review D, 2014, 90, .	4.7	694
3	Equation of state and QCD transition at finite temperature. Physical Review D, 2009, 80, .	4.7	424
4	QCD Phase Transition with Chiral Quarks and Physical Quark Masses. Physical Review Letters, 2014, 113, 082001.	7.8	286
5	Fluctuations and correlations of net baryon number, electric charge, and strangeness: A comparison of lattice QCD results with the hadron resonance gas model. Physical Review D, 2012, 86, .	4.7	211
6	Probing novel scalar and tensor interactions from (ultra)cold neutrons to the LHC. Physical Review D, 2012, 85, .	4.7	188
7	CO2 as a fracturing fluid: Potential for commercial-scale shale gas production and CO2 sequestration. Energy Procedia, 2014, 63, 7780-7784.	1.8	128
8	Axial, scalar, and tensor charges of the nucleon from $\langle \bar{\psi}\psi \rangle$ Lattice QCD. Physical Review D, 2016, 94, .	4.7	104
9	Neutron Electric Dipole Moment and Tensor Charges from Lattice QCD. Physical Review Letters, 2015, 115, 212002.	7.8	103
10	Isovector charges of the nucleon from $\langle \bar{\psi}\psi \rangle$ -flavor lattice QCD. Physical Review D, 2018, 98, .	4.7	96
11	Nucleon charges and electromagnetic form factors from $\langle \bar{\psi}\psi \rangle$ lattice QCD. Physical Review D, 2014, 89, .	4.7	95
12	Isovector and isoscalar tensor charges of the nucleon from lattice QCD. Physical Review D, 2015, 92, .	4.7	86
13	Axial-vector form factors of the nucleon from lattice QCD. Physical Review D, 2017, 96, .	4.7	80
14	Chiral transition and $\langle \bar{\psi}\psi \rangle$ lattice QCD using domain wall fermions. Physical Review D, 2012, 86, .	4.7	77
15	Flavor diagonal tensor charges of the nucleon from ($\langle \bar{\psi}\psi \rangle$) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	4.7	63
16	Improved bilinears in lattice QCD with nondegenerate quarks. Physical Review D, 2006, 73, .	4.7	57
17	Axial Vector Form Factors from Lattice QCD that Satisfy the PCAC Relation. Physical Review Letters, 2020, 124, 072002.	7.8	55
18	Quantum computing for neutrino-nucleus scattering. Physical Review D, 2020, 101, .	4.7	51

#	ARTICLE	IF	CITATIONS
19	Nucleon transverse momentum-dependent parton distributions in lattice QCD: Renormalization patterns and discretization effects. Physical Review D, 2017, 96, .	4.7	45
20	Isovector charges of the nucleon from 2+1 -flavor QCD with clover fermions. Physical Review D, 2017, 95, .	4.7	39
21	Nucleon electromagnetic form factors in the continuum limit from T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td	4.7	37
22	Controlling excited-state contamination in nucleon matrix elements. Physical Review D, 2016, 93, .	4.7	36
23	Precision nucleon charges and form factors using T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 592 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline")	4.7	35
24	Quark contribution to the proton spin from $\langle \sigma_{33} \rangle$ -flavor lattice QCD. Physical Review D, 2018, 98, .	4.7	31
25	Qubit Regularization of Asymptotic Freedom. Physical Review Letters, 2021, 126, 172001.	7.8	29
26	Pion-Nucleon Sigma Term from Lattice QCD. Physical Review Letters, 2021, 127, 242002.	7.8	28
27	Dimension-5 C_P -odd operators: QCD mixing and renormalization. Physical Review D, 2015, 92, .	4.7	27
28	Machine learning estimators for lattice QCD observables. Physical Review D, 2019, 100, .	4.7	19
29	State preparation and measurement in a quantum simulation of the $O(3)$ sigma model. Physical Review D, 2020, 102, .	4.7	15
30	Moments of nucleon isovector structure functions in $\langle \sigma_{33} \rangle$ -flavor QCD. Physical Review D, 2020, 102, .	4.7	12
31	Contribution of the QCD \hat{T} -term to the nucleon electric dipole moment. Physical Review D, 2021, 103, .	4.7	12
32	General physics motivations for numerical simulations of quantum field theory. Parallel Computing, 1999, 25, 1199-1215.	2.1	10
33	Nuclear two point correlation functions on a quantum computer. Physical Review D, 2022, 105, .	4.7	9
34	Scaling behavior of discretization errors in renormalization and improvement constants. Physical Review D, 2006, 73, .	4.7	8
35	Spacetime symmetric qubit regularization of the asymptotically free two-dimensional $O(4)$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 87 Td (stretchy="false")	4.7	5
36	Nucleon momentum fraction, helicity and transversity from 2+1-flavor lattice QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4

#	ARTICLE	IF	CITATIONS
37	Lattice QCD calculations of transverse momentum-dependent parton distributions (TMDs). EPJ Web of Conferences, 2016, 112, 01008.	0.3	1
38	Equation of State from Lattice QCD Calculations. Nuclear Physics A, 2011, 862-863, 111-117.	1.5	0